

Candidat: Conf. Dr. Ing. Botond Sandor KIREI

Data: 08.06.2026

Comisia: Electronică, telecomunicații și nanotehnologie

Postul vizat: Profesor

| Conditii minimele (Ai) |                                           |         |          |            |
|------------------------|-------------------------------------------|---------|----------|------------|
| Nr.                    | Domeniu de activitate (A)                 | Necesar | Realizat | Indeplinit |
| A1                     | Activitatea didactica / profesionala (A1) | 100     | 120.833  | DA         |
| A2                     | Activitatea de cercetare (A2)             | 600     | 734.879  | DA         |
| A3                     | Recunoasterea impactului activitatii (A3) | 150     | 452.089  | DA         |
| Total (A)              |                                           | 850     | 1307.801 | DA         |

| Conditii minimele obligatorii pe subcategorii |                                                                                                                                                                                                                | Necesar | Realizat | Indeplinit |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|------------|
| A1.1.1.-A1.1.2                                | Carti de specialitate                                                                                                                                                                                          | 1       | 2        | DA         |
|                                               | Capitole in carti de specialitate                                                                                                                                                                              | 0       | 1        |            |
| A2.1.                                         | Articole in reviste cotate si in volumele unor manifestari stiintifice indexate ISI proceedings                                                                                                                | 15      | 43       | DA         |
|                                               | Articole in reviste cotate Q1 sau Q2 (fie la momentul publicarii fie la data inscrierii in concurs)                                                                                                            | 3       | 8        | DA         |
|                                               | Numai una dintre lucrari poate fi echivalata: 1 brevet de inventie / 1 articol in conf. internat. de top in domeniul de abilitare nivel $\geq 2$ / 3 articole de nivel 1 in clasificarea Julkaisu Publication) |         | 1        |            |
| A2.4.1                                        | Granturi/proiecte castigate prin competitie (Director/responsabil)                                                                                                                                             | 2       | 2        | DA         |
| A3.1.1                                        | Numar de citari in carti, reviste cotate ISI si in volume ale unor manifestari stiintifice ISI (WOS)                                                                                                           | 25      | 86       | DA         |
|                                               | Factor de impact ISI cumulat pentru publicatii (include si FI pentru brevete, FI = 0.5)                                                                                                                        | 10      | 45.499   | DA         |

**Fisa de verificare a standardelor minime necesare si obligatorii pentru conferirea titlurilor didactice din invatamantul superior si a gradelor profesionale de cercetare stabilite prin OM 6129 / 2016**

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Comisia: **Electronică, telecomunicații și nanotehnologie**

Punctaj total: **1307.801**

Postul vizat: **Profesor**

Scor=punctaj total/punctaj minim CNADCU: **1.539**

| Nr. | Domeniul activitatilor                     |                                                                  |                   | Subcategorii |                | Indicatori (kpi)    | Numar | Punctaj | FI |
|-----|--------------------------------------------|------------------------------------------------------------------|-------------------|--------------|----------------|---------------------|-------|---------|----|
| 0   | 1                                          | 2                                                                | 3                 | 4            |                | 5                   | 6     | 7       | 8  |
| 1   | Activitatea didactica si profesionala (A1) | Carti de autor in edituri cu ISBN                                | Carti, monografii | A1.1.1.      | internationale | 50 (100)/nr.autori  | 0     | 0.00    |    |
|     |                                            | Capitole de specialitate in edituri cu ISBN                      | Capitole          |              |                | 12.5 (25)/nr.autori | 1     | 12.50   |    |
|     |                                            | Carti de autor in edituri cu ISBN                                | Carti, monografii | A1.1.2       | nationale      | 50 /nr.autori       | 2     | 58.33   |    |
|     |                                            | Capitole de specialitate in edituri cu ISBN                      | Capitole          |              |                | 12.5/nr.autori      | 0     | 0.00    |    |
|     |                                            | Material didactic/lucrari didactice publicate in edituri cu ISBN | Manuale didactice | A1.2.1       |                | 40/nr. autori       | 2     | 50.00   |    |

**Total punctaj (A1) 120.833**

|   |                               |                                                                                                                             |                        |          |                |                               |    |        |        |
|---|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------|----------|----------------|-------------------------------|----|--------|--------|
| 2 | Activitatea de cercetare (A2) | Articole in reviste cotate ISI si lucrari in volumele unor manifestari stiintifice indexate ISI proceedings                 |                        | A2.1     |                | (25+30 * fact.imp) /nr.autori | 43 | 598.96 | 44.999 |
|   |                               | Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale recunoscute (BDI) |                        | A2.2     |                | 20/nr.autori                  | 4  | 26.67  |        |
|   |                               | Proprietate intelectuala, brevete de inventie, certificate ORDA                                                             |                        | A2.3.1   | Internationale | 35/nr.autori                  | 0  | 0.00   | 0      |
|   |                               |                                                                                                                             |                        | A2.3.2   | nationale      | 25/nr.autori                  | 1  | 6.25   | 0.5    |
|   |                               | Granturi/proiecte castigate prin competitie sau contracte cu agenti economici in valoare de minim 10000 USD                 | Director / responsabil | A2.4.1.1 | Internationale | 20*ani desf.                  | 0  | 0.00   |        |
|   |                               |                                                                                                                             |                        | A2.4.1.2 | nationale      | 10*ani desf.                  | 2  | 35.00  |        |
|   |                               |                                                                                                                             | Membru in echipa       | A2.4.2.1 | Internationale | 4*ani desf.                   | 5  | 36.00  |        |
|   |                               |                                                                                                                             |                        | A2.4.2.2 | nationale      | 2*ani desf.                   | 5  | 32.00  |        |

**Total punctaj (A2) 734.879 45.499**

|   |                                            |                                                                                                                                                                                                 |                                        |        |            |                    |    |         |  |
|---|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------|------------|--------------------|----|---------|--|
| 3 | Recunoasterea si impactul activitatii (A3) | Citari in carti, reviste si volume ale unor manifestari stiintifice                                                                                                                             |                                        | A3.1.1 | carti, ISI | 8/nr.aut art.citat | 86 | 238.711 |  |
|   |                                            |                                                                                                                                                                                                 |                                        | A3.1.2 | BDI        | 4/nr.aut art.citat | 45 | 37.378  |  |
|   |                                            | Membru in colectivele de redactie sau comitetele stiintifice ale revistelor indexate ISI, chair, co-chair sau membru in comitetele de organizare ale manifestarilor internationale indexate ISI | Punctaj unic pentru fiecare activitate | A3.2.  |            | 10                 | 2  | 20      |  |
|   |                                            | Membru in colectivele de redactie sau comitetele stiintifice ale revistelor indexate BDI, chair sau co-chair sau membru in comitetele de organizare ale manifestarilor stiintifice indexate BDI | Punctaj unic pentru fiecare activitate | A3.3   |            | 6                  | 1  | 6       |  |
|   |                                            | Premii in domeniu conferite de Academia Romana, ASTR, AOSR sau premii internationale de prestigiu                                                                                               |                                        | A3.4.  |            | 15                 | 10 | 150     |  |

**Total punctaj (A3) 452.089**

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| Activitatea didactica si profesionala (A1) |        |                           |         |      |            |         |       | 50 biblioteci?        |
|--------------------------------------------|--------|---------------------------|---------|------|------------|---------|-------|-----------------------|
| A1.1.1. Carti, monografii - internationale |        |                           |         |      | Nr. autori | Punctaj | Numar | pentru DA selectati 1 |
| Nr.                                        | Autori | Titlu capitol/carte, ISBN | Editura | Anul |            | 0.000   | 0     |                       |

| Activitatea didactica si profesionala (A1) |                     |                                                                                                                                                                                                             |                                                       |      |            |         |       | 50 biblioteci?        |
|--------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|------|------------|---------|-------|-----------------------|
| A1.1.1. Capitole - internationale          |                     |                                                                                                                                                                                                             |                                                       |      | Nr. autori | Punctaj | Numar | pentru DA selectati 1 |
| Nr.                                        | Autori              | Titlu capitol/carte, ISBN                                                                                                                                                                                   | Editura                                               | Anul |            | 12.500  | 1     |                       |
| 1                                          | Botond Sandor Kirei | "An energy management discipline for future professionals in the energy sector", In M.J. Chern, V. Lanin, M. Sarker and N. Vaziri ed. "Advances in Energy Research and Development", ISBN 978-0-9895590-1-0 | ORIC Publications, Arkansas, United States of America | 2014 | 1          | 12.50   |       |                       |

| Activitatea didactica si profesionala (A1) |                                                                                                |                                                                                                 |                        |      |            |         |       |
|--------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------|------|------------|---------|-------|
| A1.1.2. Carti, monografii - nationale      |                                                                                                |                                                                                                 |                        |      | Nr. autori | Punctaj | Numar |
| Nr.                                        | Autori                                                                                         | Titlu capitol / carte, ISBN                                                                     | Editura                | Anul |            | 58.333  | 2     |
| 1                                          | Botond Sandor Kirei                                                                            | "Proiectarea sistemelor digitale cu instrumente HDL", ISBN: 978-606-17-0958-8                   | Casa Cartii de Stiinta | 2016 | 1          | 50.00   |       |
| 2                                          | Botond Sandor Kirei, Calin Farcas, Robert Groza, Erwin Szopos, Ioana Saracut, Marina Dana Topa | Modelarea și proiectarea sintetizatoarelor de frecvență complet digitale ISBN 978-606-17-1411-7 | Casa Cartii de Stiinta | 2018 | 6          | 8.33    |       |

| Activitatea didactica si profesionala (A1) |        |                             |         |      |            |         |       |
|--------------------------------------------|--------|-----------------------------|---------|------|------------|---------|-------|
| A1.1.2. Capitole - nationale               |        |                             |         |      | Nr. autori | Punctaj | Numar |
| Nr.                                        | Autori | Titlu capitol / carte, ISBN | Editura | Anul |            | 0.000   | 0     |

Link Verificare

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| A1.2.1. Material didactic/lucrari didactice |                                                      |                                                                                                                                |                                |      | Nr.<br>autori | Punctaj<br>50.000 | Numar<br>2 |
|---------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------|---------------|-------------------|------------|
| Nr.                                         | Autori                                               | Titlu capitol / carte, ISBN                                                                                                    | Editura                        | Anul |               |                   |            |
| 1                                           | Botond Sandor Kirei                                  | “Managementul Energiei - Îndrumător de laborator I”, ISBN: 978-606-17-0301-2                                                   | Editura Casa Cărții de Știință | 2013 | 1             | 40.00             |            |
| 2                                           | Paul Farago, B.S. Kirei, Gabor Csipkes, Sorin Hintea | Descrierea în VHDL a sistemelor cu circuite integrate digitale : îndrumator de proiectare și simulare”, ISBN 978-973-662-950-1 | U.T.Press Cluj-Napoca          | 2014 | 4             | 10.00             |            |

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| Activitatea de cercetare (A2)                                                                                                                                                                                                                            |                                                                                                           |                                                                                                                                                                                                                                                                                                            |               |            |         | Q1,Q2<br>daca<br>este<br>cazul | Echiv.<br>pt.<br>Q1,Q2;<br>A2.1 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------|---------|--------------------------------|---------------------------------|
| A2.1. Articole in reviste cotate ISI si in volumele unor manifestari indexate ISI Proceedings. FI ISI al revistei in anul publicarii sau la data depunerii dosarului. Conferinte ISI: FI=0.25. Conf. ISI de top: nivel ≥ 2 Julkaisu Publication: FI=0.75 |                                                                                                           |                                                                                                                                                                                                                                                                                                            |               |            |         |                                |                                 |
| Nr.                                                                                                                                                                                                                                                      | Autori                                                                                                    | Titlu lucrare / revista (conferinta)                                                                                                                                                                                                                                                                       | Factor impact | Nr. autori | Punctaj |                                |                                 |
|                                                                                                                                                                                                                                                          |                                                                                                           |                                                                                                                                                                                                                                                                                                            |               |            | 598.962 | 43                             | 45.00                           |
| 1                                                                                                                                                                                                                                                        | L.I Mihăilă, C.G. Barbura, P. Faragó, S. Hintea, B.S. Kirei, A. Fazakas                                   | FPGA-Accelerated ECG Analysis: Narrative Review of Signal Processing, ML/DL Models, and Design Optimizations/ ELECTRONICS / vol. 15/2, https://doi.org/10.3390/electronics15020301<br><b>Factor de impact pe anul 2025: 2.9</b>                                                                            | 2.9           | 6          | 18.67   |                                | Q2                              |
| 2                                                                                                                                                                                                                                                        | G. Kovacs, R. Nelega, A. Oprea, B. Kirei, E. Surducun, V. Surducun, R.V.F. Turcu, E. Puschita             | Design, implementation, and RFSoC-based validation of a multi-path RF front-end for wideband spectrum analysis/ RESULTS IN ENGINEERING / vol. 28,/ 2025/ DOI10.1016/j.rineng.2025.106967<br><b>Factor de impact pe anul publicarii (2025): 9.4</b>                                                         | 9.4           | 8          | 38.38   |                                | Q1                              |
| 3                                                                                                                                                                                                                                                        | B. S. Kirei, V. Ratiu, O. Ratiu                                                                           | Sensitivity of Line-of-Sight Estimation to Measurement Errors in L-Shaped Antenna Arrays for 3D Localization for In-Orbit Servicing / Sensors/ vol. 25, is. 13 / 2025 / DOI: 10.3390/s25133946<br><b>Factor de impact pe anul publicarii (2025): 4</b>                                                     | 4             | 3          | 48.33   |                                | Q2                              |
| 4                                                                                                                                                                                                                                                        | R. Buta; E .Puschita ; BS Kirei; C. Codau;T. Palade ; P. Dolea ; A. Pastrav                               | Wireless-SpaceWire bridge for intrasatellite transmissions /INTERNATIONAL JOURNAL OF SATELLITE COMMUNICATIONS AND NETWORKING, vol. 41, is. 5, 2023, ISSN: 1542-0973/ doi:DOI10.1002/sat.1479<br><b>Factor de impact pe anul publicarii (2023): 0.9</b><br><b>Factor de impact pe anul 2025:1.8</b>         | 1.8           | 7          | 11.29   |                                | Q2                              |
| 5                                                                                                                                                                                                                                                        | Kirei, Botond Sandor; Farcas, Calin-Adrian; Chira, Cosmin; Ilie, Ionut-Alin; Neag, Marius                 | Hardware Emulation of Step-Down Converter Power Stages for Digital Control Design / Electronics, vol. 12, no. 6, 2023, ISSN: 2079-9292/ doi:10.3390/electronics12061328<br><b>Factor de impact pe anul publicarii (2023): 2.6</b><br><b>Factor de impact pe anul 2025:2.9</b>                              | 2.9           | 5          | 22.40   |                                | Q2                              |
| 6                                                                                                                                                                                                                                                        | Emanuel Puschita, Ovidiu Ratiu, Martin Drobczyk, Nickolaos Panagiotopoulos, B. S. Kirei, Stefan Vos, Vlad | A UWB solution for wireless intra-spacecraft transmissions of sensor and SpaceWire data/ Int J Satell Commun Network., Vol. 38, Iss 1, pages 46-61, 2020, https://doi.org/10.1002/sat.1307<br><b>Factor de impact pe anul publicarii (2020): 1.614</b><br><b>Factor de impact pe anul 2025:1.8</b>         | 1.8           | 10         | 7.90    |                                | Q2                              |
| 7                                                                                                                                                                                                                                                        | V. I. M. Chereja, B. S. Kirei, S. A. Hintea, M. D. Topa                                                   | PAELib: A VHDL Library for Area and Power Dissipation Estimation of CMOS Logic Circuits / Advances in Electrical and Computer Engineering, vol.19, no.1, pp.9-16, 2019, doi:10.4316/AECE.2019.01002<br><b>Factor de impact pe anul publicarii (2019): 1.1</b><br><b>Factor de impact pe anul 2025: 0.9</b> | 1.1           | 4          | 14.50   |                                |                                 |
| 8                                                                                                                                                                                                                                                        | R. Groza, I.A. Potarniche, B. S. Kirei, M.D. Topa                                                         | Digitally controlled oscillator for all-digital frequency locked loops /Romanian Journal of Information Science and Technology, Volume 21, Number 1, 2018<br><b>Factor de impact pe anul publicarii (2018): 0.661</b><br><b>Factor de impact pe anul 2025: 4.5</b>                                         | 0.661         | 4          | 11.21   |                                |                                 |

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|    |                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                              |       |   |       |
|----|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---|-------|
| 9  | C. Contan, B. S. Kirei, Marina D. Topa,                                                                   | Error-dependent step-size control of adaptive normalized least-mean-square filters used for nonlinear acoustic echo cancellation / Signal, Image and Video Processing, first online April 2015, ISSN: 1863-1703, printed March 2016, Volume 10, Issue 3, pp 511-518, DOI: 10.1007/s11760-015-0769-1<br><b>Factor de impact pe anul publicarii (2016): 1.102</b><br><b>Factor de impact pe anul 2025: 2.7</b> | 2.7   | 3 | 35.33 |
| 10 | Cristian Conțan, Botond Sandor Kirei, Marina Dana Țopa                                                    | Modified NLMF Adaptation of Volterra Filters Used for Nonlinear Acoustic Echo Cancellation /Signal Processing, Elsevier, ISSN 0165-1684, Volume 93, Issue 5, pp.1152-1161, 2013.<br><b>Factor de impact pe anul publicarii (2013): 2.238 (Q1)</b><br><b>Factor de impact pe anul 2025: 3.7 (Q2)</b>                                                                                                          | 2.238 | 3 | 30.71 |
| 11 | Irina Mureșan, Botond Sandor Kirei, Cristian Conțan, Marina Dana Țopa                                     | Rapid Prototyping of Sub-band Acoustic Echo Cancellers on FPGA Platforms / Advances in Electrical and Computer Engineering, ISSN 1582-7445, e-ISSN: 1844-7600, Volume 13, Number 3, pp. 45-50, 2013. doi: https://doi.org/10.4316/AECE.2013.03008<br><b>Factor de impact pe anul publicarii (2013): 0.642</b><br><b>Factor de impact pe anul 2025: 0.9</b>                                                   | 0.9   | 4 | 13.00 |
| 12 | Botond Sandor Kirei, Marius Neag, Marina Dana Țopa                                                        | Blind Frequency-Selective I/Q Mismatch Compensation Using Subband Processing", Circuits and Systems II: Express Briefs, IEEE Transactions on, ISSN : 1549-7747, Vol. 59 , Iss. 5, pp. 302 - 306, 2012.doi: 10.1109/TCSII.2012.2190858<br><b>Factor de impact pe anul publicarii (2012): 0.327 (Q2)</b><br><b>Factor de impact pe anul 2025: 4.6 (Q1)</b>                                                     | 4.6   | 3 | 54.33 |
| 13 | M.D. Topa, N. Toma, B.S. Kirei, I. Saracut, A. Farina                                                     | Experimental Acoustic Evaluation of an Auditorium/ ADVANCES IN ACOUSTICS AND VIBRATION / Volume2012 / DOI10.1155/2012/868247                                                                                                                                                                                                                                                                                 | 0.25  | 5 | 6.50  |
| 14 | Marina Dana Țopa, Norbert Toma, Botond Sandor Kirei, Ioana Homăănă, Marius Neag, Gilbert De Mey           | Comparison of Different Experimental Methods for the Assessment of the Room's Acoustics / Acoustical Physics, ISSN 1063-7710, Volume 57, Number 2, pp.199-207, 2011, DOI: 10.1134/S1063771011020229<br><b>Factor de impact pe anul publicarii (2011): 0.7(Q2)</b><br><b>Factor de impact pe anul 2025: 0.9</b>                                                                                               | 0.9   | 6 | 8.67  |
| 15 | Botond Sandor Kirei, Marina Dana Țopa, Irina Mureșan, Ioana Homăănă, Norbert Toma                         | Blind Source Separation for Convolutional Mixtures with Neural Networks / Advances in Electrical and Computer Engineering, ISSN 1582-7445, e-ISSN: 1844-7600, Volume 11, Number 1, pp. 63-68, 2011. doi: 10.4316/AECE.2011.01010<br><b>Factor de impact pe anul publicarii (2011): 0.555</b><br><b>Factor de impact pe anul 2025: 0.9</b>                                                                    | 0.9   | 5 | 10.40 |
| 16 | Marina Dana Țopa, Irina Mureșan, Botond Sandor Kirei, Ioana Homăănă                                       | Digital Adaptive Echo-Canceller for Room's Acoustics Improvement, Advances in Electrical and Computer Engineering, ISSN 1582-7445, e-ISSN: 1844-7600, Volume 10, Number 1, pp. 50-53, 2010, DOI: 10.4316/AECE.2010.01008<br><b>Factor de impact pe anul publicarii (2010): 0.7</b><br><b>Factor de impact pe anul 2025: 0.9</b>                                                                              | 0.7   | 4 | 11.50 |
| 17 | Codau, Cristian; Buta, Rares-Calin; Kirei, Botond Sandor; Pastrav, Andra; Simedroni, Raluca; Dolea, Paul; | Design and Validation of a Wireless Bridge for Intra-Spacecraft Communications /44th International Conference on Telecommunications and Signal Processing (TSP), ELECTRONIC NETWORK, JUL 26-28, 2021/doi:10.1109/TSP52935.2021.9522609                                                                                                                                                                       | 0.25  | 9 | 3.61  |

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| <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000316586300014">https://www.webofscience.com/wos/woscc/full-record/WOS:000316586300014</a> |
| <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000326321600008">https://www.webofscience.com/wos/woscc/full-record/WOS:000326321600008</a> |
| <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000304150000010">https://www.webofscience.com/wos/woscc/full-record/WOS:000304150000010</a> |
| <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000214615800045">https://www.webofscience.com/wos/woscc/full-record/WOS:000214615800045</a> |
| <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000288897800010">https://www.webofscience.com/wos/woscc/full-record/WOS:000288897800010</a> |
| <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000288761800010">https://www.webofscience.com/wos/woscc/full-record/WOS:000288761800010</a> |
| <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000275458900008">https://www.webofscience.com/wos/woscc/full-record/WOS:000275458900008</a> |
| <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000701604600082">https://www.webofscience.com/wos/woscc/full-record/WOS:000701604600082</a> |



|    |                                                                  |                                                                                                                                                                                                                                                                                                         |      |   |       |
|----|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|-------|
| 32 | Ioana Homăună, Marina Țopa, Botond Sandor Kirei, Cristian Conțan | Behavior of Variable Step-Size NLMS Algorithms for Acoustic Echo Cancellation, Proceedings of IEEE Symposium on Signals, Circuits and Systems (ISSCS), pp. 347-359, Iași, Romania, June 30-July 1, 2011                                                                                                 | 0.25 | 4 | 8.13  |
| 33 | Botond Sandor Kirei, Marius Neag, Marina Dana Țopa               | Composite RF tuner models and their object oriented implementation , Proc. 34th International Conference on Telecommunications and Signal Processing (TSP), ISBN: 978-1-4577-1410-8, pp. 150–154, Budapest, Hungary, 18-20 Aug. 2011.                                                                   | 0.25 | 3 | 10.83 |
| 34 | Ioana Homăună, Marina Țopa, Botond Sandor Kirei, Cristian Conțan | Adaptive Algorithms for Double-Talk Echo Cancelling, Proc. of the 2010 9th International Symposium on Electronics and Telecommunications ISETC' 2010, ISSN 978-1-4244-8458-4, pp. 349-352, Timișoara, Romania, November 11-12, 2010. /DOI10.1109/ISETC.2010.5679359                                     | 0.25 | 4 | 8.13  |
| 35 | Ioana Homăună, Marina Dana Țopa, Botond Sandor Kirei             | Semi-blind equalization using the Constant Modulus Algorithm, Proceedings of the 2010 IEEE International Conference on Automation, Quality and Testing (AQTR 2010), ISBN 978-1-4244-6722-8, pp. 299-302, Cluj-Napoca, Romania, May 28-30, 2010.                                                         | 0.25 | 3 | 10.83 |
| 36 | Botond Sandor Kirei, Marius Neag, Marina Dana Țopa               | On I/Q Imbalance Compensation Based on Adaptive Filtering in Low-IF and Zero-IF Radio, Proceedings of the 2010 IEEE International Conference on Automation, Quality and Testing (AQTR 2010), ISBN 978-1-4244-6722-8, pp. 166-169, Cluj-Napoca, Romania, May 28-30, 2010.                                | 0.25 | 3 | 10.83 |
| 37 | Botond Sandor Kirei, Marius Neag, Marina Dana Țopa               | Symmetric Adaptive Decorrelation for I/Q Imbalance Compensation in Narrowband Receivers, Proc. of the 2010 9th International Symposium on Electronics and Telecommunications ISETC' 2010, ISSN 978-1-4244-8458-4, pp. 353-356, Timișoara, Romania, November 11-12, 2010. /DOI10.1109/ISETC.2010.5679360 | 0.25 | 3 | 10.83 |
| 38 | Irina Dornean, Marina Țopa, Botond Sandor Kirei, Marius Neag     | Sub-Band Adaptive Filtering for Acoustic Echo Cancellation, Proceedings of the European Conference on Circuit Theory and Design ECCTD 2009, ISBN 978-1-4244-3896-9, pp. 810-813 (on CD C3L-D-3), Antalya, Turkey, 23-27 August, 2009. / DOI10.1109/ECCTD.2009.5275107                                   | 0.25 | 4 | 8.13  |
| 39 | Botond Sandor Kirei, Irina Dornean, Marina Țopa, Marius Neag     | Reconfigurable Zero/Low-IF Receiver, Proceedings of the IEEE International Symposium on Signals, Circuits & Systems ISSCS 2009, ISBN 978-1-4244-3748-9, Vol. 2, pp. 417-420, Iași, Romania 9-10 July, 2009.                                                                                             | 0.25 | 4 | 8.13  |
| 40 | I. Dornean, Marina Țopa, B. S. Kirei, G. Oltean                  | "HDL Implementation of the Variable Step Size N-LMS Adaptive Algorithm", Proceedings of the 2008 IEEE International Conference on Automation, Quality and Testing (AQTR 2008), ISBN 978-1-4244-2576-1, pp.243-246, Cluj-Napoca, Romania, May 22-25, 2008. /DOI10.1109/AQTR.2008.4588920                 | 0.25 | 4 | 8.13  |
| 41 | B.S.Kirei, Marina Țopa, V. Popescu, Irina Dornean                | "Image Rejection Filter Based on Blind Source Separation for Low-IF Receivers", Proceedings of the 2008 IEEE International Conference on Automation, Quality and Testing (AQTR 2008), ISBN 978-1-4244-2576-1, pp. 253-256, Cluj-Napoca, Romania, May 22-25, 2008. /DOI10.1109/AQTR.2008.4588922         | 0.25 | 4 | 8.13  |
| 42 | Botond Sandor Kirei, Victor Popescu, Marina Țopa, Ioana Popescu  | "A Propagation Model for Coupled Lines", Proceedings of the 2008 IEEE International Spring Seminar on Electronics Technology, Reliability and Life-Time Prediction (ISSE 2008), ISBN 978-963-06-4915-5, pp. 624-629, Budapest, Hungary, May 7-11, 2008. / DOI10.1109/ISSE.2008.5276601                  | 0.25 | 4 | 8.13  |

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| <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000299568700032">https://www.webofscience.com/wos/woscc/full-record/WOS:000299568700032</a> |
| <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000296356700074">https://www.webofscience.com/wos/woscc/full-record/WOS:000296356700074</a> |
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| <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000419281500110">https://www.webofscience.com/wos/woscc/full-record/WOS:000419281500110</a> |
| <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000296356700075">https://www.webofscience.com/wos/woscc/full-record/WOS:000296356700075</a> |
| <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000276473700201">https://www.webofscience.com/wos/woscc/full-record/WOS:000276473700201</a> |
| <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000275854200103">https://www.webofscience.com/wos/woscc/full-record/WOS:000275854200103</a> |
| <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000259080200041">https://www.webofscience.com/wos/woscc/full-record/WOS:000259080200041</a> |
| <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000259080200043">https://www.webofscience.com/wos/woscc/full-record/WOS:000259080200043</a> |
| <a href="https://www.webofscience.com/wos/woscc/full-record/WOS:000272337900125">https://www.webofscience.com/wos/woscc/full-record/WOS:000272337900125</a> |

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|----|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|-------|
| 43 | Botond Sandor Kirei, Marina Țopa, Irina Dornean, Albert Fazakas | "Novel Image Rejection Filter Based on Neural Networks", Proceedings of the 2008 International Conference on Knowledge-Bases Intelligent Information and Engineering Systems (KES 2008), ISBN 978-3-540-85567-5, vol. III, pp. 343-350, Zagreb, Croatia, September 3-5, 2008. | 0.25 | 4 | 8.13  |
| 44 | Botond Sandor Kirei, Irina Dornean, Marina Țopa                 | "Image Rejection Filter Based on Complex LMS Filter for Low-IF Receivers", Proceedings of the 50 th International IEEE Symposium ELMAR-2008, ISBN 978-953-7044-08-04, pp. 203-206, Zadar, Croatia, 10-12 September, 2008.                                                     | 0.25 | 3 | 10.83 |
| 45 | V. Popescu, B. S. Kirei, M. Țopa, C. Munteanu                   | "Analysis of Lossless Differential Microstrip Line", Proceedings of the 30th IEEE International Spring Seminar on Electronics Technology ISSE, ISBN 1-4244-1218-8, pp. 551-554, Cluj-Napoca, Romania, 9-13 May, 2007./DOI10.1109/ISSE.2007.4432917                            | 0.25 | 4 | 8.13  |

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<https://www.webofscience.com/wos/woscc/full-record/WOS:000255232500107>

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| A2.2. Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale (BDI):<br>Scopus, IEEE, Science Direct, Elsevier, Springerlink, ACM, DBLP, EURASIP |  |  | Punctaj | Numar |
|                                                                                                                                                                                                    |  |  | 26.667  | 4     |

| Nr. | Autori                                                               | Titlu lucrare / revista (conferinta)                                                                                                                                                                                                                               | Baza de date | Nr. autori | Punctaj |
|-----|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|---------|
| 1   | Ioana Homănă, Marina Țopa, Botond Sandor Kirei                       | "Echo Cancelling Using Adaptive Algorithms", Proceedings of the 15th International Symposium for Design and Technology of Electronics Packages SIITME2009, pp 347-351, Gyula, Hungary,17-20 September, 2009.                                                       | IEEE         | 3          | 6.67    |
| 2   | Botond Sandor Kirei, Marina Țopa, Albert Csaba Fazakas, Norbert Toma | "Novel FIR Implementation for Acoustic Signal Processing", Proceedings of the 15th International Symposium for Design and Technology of Electronics Packages SIITME2009, pp 387-390, Gyula, Hungary, 17-20 September, 2009.                                        | IEEE         | 4          | 5.00    |
| 3   | B. S. Kirei, O. Ratiu                                                | "Sensitivity to Measurement Errors of an L-Shaped Phase Array for 3D Localization in Inter-Satellite Links," 2024 International Symposium on Electronics and Telecommunications (ISETC), Timisoara, Romania, 2024, pp. 1-5, doi: 10.1109/ISETC63109.2024.10797293. | IEEE         | 2          | 10.00   |
| 4   | Țopa M., Toma N., Kirei B., Crișan I.                                | "Evaluation of acoustic parameters in a room", 9th WSEAS International Conference on Signal Processing, SIP '10Pages 41 - 442010 9th WSEAS International Conference on Signal Processing, SIP '1029 May 2010through 31 May 2010                                    | Scopus       | 4          | 5.00    |

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| Echiv. pt. Q1,Q2; A2.1 |
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<https://ieeexplore.ieee.org/document/5407351/>

<https://ieeexplore.ieee.org/document/5407346/>

<https://ieeexplore.ieee.org/document/10797293>

<https://www.scopus.com/pages/publications/79952670904>

| A2.3.1. Proprietate intelectuala, brevete de inventie, certificate ORDA - internationale |        |                          |      | Punctaj   | Numar   | FI  | Inregist rat? | Echiv. pt. Q1,Q2; A2.1 |
|------------------------------------------------------------------------------------------|--------|--------------------------|------|-----------|---------|-----|---------------|------------------------|
|                                                                                          |        |                          |      | 0.000     | 0       | 0.0 |               |                        |
| Nr.                                                                                      | Autori | Denumie brevet /Organism | Anul | Nr.autori | Punctaj |     |               |                        |

| A2.3.2. Proprietate intelectuala, brevete de inventie, certificate ORDA - nationale |                                                                                   |                                                                                                                                                                                                                                |      | Punctaj   | Numar   | FI  |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|---------|-----|
|                                                                                     |                                                                                   |                                                                                                                                                                                                                                |      | 6.250     | 1       | 0.5 |
| Nr.                                                                                 | Autori                                                                            | Denumie brevet /Organism                                                                                                                                                                                                       | Anul | Nr.autori | Punctaj |     |
| 1                                                                                   | Kirei Botond Sandor, Țopa Marina Dana, Groza Robert Gheorghe, Farcaș Călin Adrian | RO134011 /APARAT ȘI METODĂ PENTRU LINIARIZAREA CARACTERISTICII COD DE COMANDĂ-FRECVENȚĂ DE OSCILAȚIE AL OSCILATOARELOR CONTROLATE NUMERIC MULTIBANDĂ, ȘI PARTICULARIZAREA APARATULUI PENTRU O BUCLĂ CALATĂ PE FRECVENȚĂ / UTCN | 2025 | 4         | 6.25    | 0.5 |

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[https://patentscope.wipo.int/search/en/detail.jsf?docId=RO293753610&\\_cid=P21-M99UW8-65986-1](https://patentscope.wipo.int/search/en/detail.jsf?docId=RO293753610&_cid=P21-M99UW8-65986-1)

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| A2.4.1.1. Granturi/proiecte castigate prin competitie sau Contracte cu agenti economici in valoare de minim 10 000 dolari SUA : <b>director/responsabil de proiect - internationale</b> ; Nu se considera proiecte/granturi care nu prezinta caracter predominant de cercetare. Trebuie sa fie relevante pentru postul de concurs/domeniul de abilitare. Documente care demonstreaza caracterul de cercetare. |                  |          |         | Punctaj | Numar |
|                                                                                                                                                                                                                                                                                                                                                                                                               |                  |          |         | 0.000   | 0     |
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| A2.4.1.2. Granturi/proiecte castigate prin competitie sau Contracte cu agenti economici in valoare de minim 10 000 dolari SUA - <b>director/responsabil de proiect nationale</b> ; Nu se considera proiecte/granturi care nu prezinta caracter predominant de cercetare. Trebuie sa fie relevante pentru postul de concurs/domeniul de abilitare. Documente care demonstreaza caracterul de cercetare |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |         | Punctaj | Numar |
|                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |         | 35.000  | 2     |
| Nr.                                                                                                                                                                                                                                                                                                                                                                                                   | Denumire proiect                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Perioada  | Nr. ani | Punctaj |       |
| 1                                                                                                                                                                                                                                                                                                                                                                                                     | CNCIS TD - 428; , nr. înreg. CNCIS 522/10.10.2007, titlul “Contribuții la proiectarea și realizarea filtrelor integrate polifaze pentru comunicații wireless”, Link: <a href="https://scs.utcluj.ro/bkirei/2026/06/08/td-428-2007-contribution-to-designing-and-implementing-of-integrated-polyphase-filters-for-wireless-communications/">https://scs.utcluj.ro/bkirei/2026/06/08/td-428-2007-contribution-to-designing-and-implementing-of-integrated-polyphase-filters-for-wireless-communications/</a> | 2007-2008 | 1.5     | 15.00   |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                                     | Bridge Grant nr. Inreg. UEFISCDI 43BG/01.10.2016, nr inreg. UTCN 28147/31.10.2016 " NAPOSIP - Noi Abordări în analiza și Proiectarea SIntetizoarelor de frecvență de mare Performanță pentru sisteme de comunicații moderne", Link: <a href="https://naposip.utcluj.ro">naposip.utcluj.ro</a>                                                                                                                                                                                                              | 2016-2018 | 2       | 20.00   |       |

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| A2.4.2.1. Granturi/proiecte castigate prin competitie sau Contracte cu agenti economici in valoare de minim 10 000 dolari SUA: <b>membru in echipa - internationale</b> ; Nu se considera proiecte/granturi care nu prezinta caracter predominant de cercetare. Trebuie sa fie relevante pentru postul de concurs/domeniul de abilitare. Documente care demonstreaza caracterul de cercetare |                                                                                                                                                                                                             |                |         | Punctaj | Numar |
|                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                             |                |         | 36.000  | 5.00  |
| Nr.                                                                                                                                                                                                                                                                                                                                                                                          | Denumire proiect                                                                                                                                                                                            | Perioada       | Nr. ani | Punctaj |       |
| 1                                                                                                                                                                                                                                                                                                                                                                                            | "Romanian Hub for Artificial Intelligence-HRIA"/ Smart Growth, Digitization and Financial Instruments Program/MySMIS no. 334906/2025 -2030                                                                  | 2025 - prezent | 1       | 4.00    |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                            | "Hybrid Inter-Satellite Link (H-ISL)/European Space Agency, 2018-2021, project number 4000121222/17/NL/CBi /2018                                                                                            | 2018-2021      | 2       | 8.00    |       |
| 3                                                                                                                                                                                                                                                                                                                                                                                            | "Investigation of Radiation Tolerances and Designs of Ultra-Wide Band Wireless Solutions (RT-UWB)," financed by the European Space Agency, 2017-2021, ESA Contract No. 4000133591/20/NL/AS.                 | 2021-2024      | 2       | 8.00    |       |
| 4                                                                                                                                                                                                                                                                                                                                                                                            | "Assessments to prepare and de-risk technology developments: H_ISL Hybrid Intersattelite Link with Ranging and LoS capabilities / European Space Agency (EASA) /ESA Contract number 4000147155/25/NL/RK/cbr | 2015- present  | 1       | 4.00    |       |
| 5                                                                                                                                                                                                                                                                                                                                                                                            | POSDRU/89/1.5/S/52603, Cercetator postdoctoral PD; finanțat prin proiectul titlul temei: "Compensarea digitală a neîmperecherii căilor I/Q în receptoare de bandă largă"                                    | 2010-2013      | 3       | 12.00   |       |

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| A2.4.2.2. Granturi/proiecte castigate prin competitie sau Contracte cu agenti economici in valoare de minim 10 000 dolari SUA: <b>membru in echipa - nationale</b> ; Nu se considera proiecte/granturi care nu prezinta caracter predominant de cercetare. Trebuie sa fie relevante pentru postul de concurs/domeniul de abilitare. Documente care demonstreaza caracterul de cercetare |                                                                                                                                                                                                                                                                                                                                                                            |           |         | Punctaj | Numar |
|                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                            |           |         | 32.000  | 5.00  |
| Nr.                                                                                                                                                                                                                                                                                                                                                                                     | Denumire proiect                                                                                                                                                                                                                                                                                                                                                           | Perioada  | Nr. ani | Punctaj |       |
| 1                                                                                                                                                                                                                                                                                                                                                                                       | "High throughput Wireless-SpaceWire Bridge for intra-satellite transmissions (HISAT)" /UEFISCDI/ PN-III-P2-2.1-PED-20193427, <a href="https://hisat.utcluj.ro/">https://hisat.utcluj.ro/</a>                                                                                                                                                                               | 2020-2022 | 2       | 4.00    |       |
| 2                                                                                                                                                                                                                                                                                                                                                                                       | "Parteneriate pentru transfer de cunoștințe și tehnologie în vederea dezvoltării de circuite integrate specializate pentru creșterea eficienței energetice a noilor generații de vehicule" – PartEnerIC, Proiect cofinanțat din Fondul European de Dezvoltare Regionala prin Programul Operational Competitivitate POC 2014-2020, Nr. contract de finanțare: 19/01.09.2016 | 2017-2021 | 5       | 10.00   |       |

03.a. Anexa Fisa verificare - Adeverinta DMCDI\_UTCN (pozitia 1)

03.a. Anexa Fisa verificare - Adeverinta DMCDI\_UTCN (pozitia 2)

03.b. Anexa Fisa verificare - Adeverinta HRIA

03.c. Anexa Fisa verificare - Adeverinta Control Data Systems (pozitia 1)

03.c. Anexa Fisa verificare - Adeverinta Control Data Systems (pozitia 2)

03.c. Anexa Fisa verificare - Adeverinta Control Data Systems (pozitia 3)

03.d. Anexa Fisa de verificare - Contract\_POSDRU

03.a. Anexa Fisa verificare - Adeverinta DMCDI\_UTCN (pozitia 5)

03.e. Anexa Fisa de verificare - Adeverinta PartenerIC

|   |                                                                                                                                                                                           |           |   |      |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---|------|
| 3 | Nr. Inreg. ROSA 82/14.11.2016, nr. Inreg UTCN 30384/14.11.2016 - "Centru de competenta pentru tehnologii wireless intrasatelitare "                                                       | 2016-2019 | 3 | 6.00 |
| 4 | CNCSIS ID-1057, "2.5d Modeling of Sound Propagation in Rooms and Improvement of Room Acoustical Properties using Digital Implementations".                                                | 2007-2010 | 3 | 6.00 |
| 5 | CNCSIS - IDEI 2534, titlul "Abordări noi în proiectarea receptoarelor radio multistandard pentru aplicații mobile: de la arhitecturi de sistem la noi topologii de blocuri funcționale și | 2008-2011 | 3 | 6.00 |

03.a. Anexa Fisa verificare - Adeverinta DMCDI\_UTCN (pozitia 7)

03.a. Anexa Fisa verificare - Adeverinta DMCDI\_UTCN (pozitia 3)

03.a. Anexa Fisa verificare - Adeverinta DMCDI\_UTCN (pozitia 4)

Candidat: Conf. Dr. Ing. Botond Sandor KIREI

Data: 08.06.2026

Comisia: Electronică, telecomunicații și nanotehnologie

| Recunoasterea si impactul activitatii (A3)                                                                       |                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                             |                        |         |       | Q1/Q2<br>daca e<br>cazul |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------|-------|--------------------------|
| A3.1.1. Citari in carti, reviste si volume ale unor manifestari stiintifice (carti, ISI); se exclud autocitările |                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                             |                        | Punctaj | Numar |                          |
|                                                                                                                  |                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                             |                        | 238.711 | 86    |                          |
| Nr.                                                                                                              | Articol citat                                                                                                                                                                                                       | Articol care citeaza                                                                                                                                                                                                                                                        | Num aut.<br>art. citat | Punctaj |       |                          |
| 1                                                                                                                | Buta et al., Wireless-SpaceWire bridge for intrasatellite transmissions /INTERNATIONAL JOURNAL OF SATELLITE COMMUNICATIONS AND NETWORKING, vol. 41, is. 5, 2023, ISSN: 1542-0973/ doi:DOI10.1002/sat.1479           | O. Ben Yahia et al., "A Scalable Architecture for Future Regenerative Satellite Payloads," in IEEE Wireless Communications Letters, vol. 14, no. 2, pp. 514-518, Feb. 2025, doi: 10.1109/LWC.2024.3514452.                                                                  | 7                      | 2.29    |       | Q1                       |
| 2                                                                                                                | Puschita, E, Ratiu, O, Drobczyk, M, et al. A UWB solution for wireless intra-spacecraft transmissions of sensor and SpaceWire data. Int J Satell Commun Network. 2020; 38: 41– 61. https://doi.org/10.1002/sat.1307 | V. Ratiu et al, A Complete Solution for Ultra-Wideband Based Real-Time Positioning, Sensors 2025, 25, 4620. https://doi.org/10.3390/s25154620                                                                                                                               | 10                     | 1.60    |       | Q2                       |
| 3                                                                                                                |                                                                                                                                                                                                                     | Ang Li, Ming Liu, Xibin Cao, and Ruixia Liu. 2022. Adaptive quantized sliding mode attitude tracking control for flexible spacecraft with input dead-zone via Takagi-Sugeno fuzzy approach. Inf. Sci. 587, C (Mar 2022), 746–773. https://doi.org/10.1016/j.ins.2021.11.002 | 10                     | 1.60    |       | Q1                       |
| 4                                                                                                                |                                                                                                                                                                                                                     | Buta, R.-C.; Drobczyk, M.; Firchau, T.; Luebken, A.; Palade, T.P.; Pastrav, A.; Puschita, E. SpaceWire-to-UWB Wireless Interface Units for Intra-spacecraft Communication Links. Sensors 2023, 23, 1363. https://doi.org/10.3390/s23031363                                  | 10                     | 1.60    |       | Q2                       |
| 5                                                                                                                |                                                                                                                                                                                                                     | Puschita, E., Simedroni, R., Palade, T.P., Codau, C., Vos, S., Ratiu, V., & Ratiu, O. (2020). Performance Evaluation of the UWB-based CDS Indoor Positioning Solution. 2020 International Workshop on Antenna Technology (iWAT), 1-4.                                       | 10                     | 0.80    |       |                          |
| 6                                                                                                                |                                                                                                                                                                                                                     | A. Pastrav, R. Simedroni, T. Palade, P. Dolea, D. Popescu and E. Puschita, "Evaluation of UWB Transmissions in Highly Reflective Environments," 2020 13th International Conference on Communications (COMM), 2020, pp. 527-532, doi: 10.1109/COMM48946.2020.9142043.        | 10                     | 0.80    |       |                          |
| 7                                                                                                                | Kirei et al., Hardware Emulation of Step-Down Converter Power Stages for Digital Control Design / Electronics, vol. 12, no. 6, 2023, ISSN: 2079-9292/ doi:10.3390/electronics12061328                               | Lovasz, E.-A.; Lascu, D.; Lica, S. Digitally Controlled Hybrid Switching Step-Up Converter. Electronics 2024, 13, 1740. https://doi.org/10.3390/electronics13091740                                                                                                         | 5                      | 3.20    |       | Q2                       |
| 8                                                                                                                |                                                                                                                                                                                                                     | Saralegui, R.; Sanchez, A.; de Castro, A. Efficient Hardware-in-the-Loop Models Using Automatic Code Generation with MATLAB/Simulink. Electronics 2023, 12, 2786. https://doi.org/10.3390/electronics12132786                                                               | 5                      | 3.20    |       | Q2                       |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| 9  | Codau et al., Design and Validation of a Wireless Bridge for Intra-Spacecraft Communications /44th International Conference on Telecommunications and Signal Processing (TSP), ELECTR NETWORK, JUL 26-28, 2021/doi:10.1109/TSP52935.2021.9522609           | Buta, R.-C.; Drobczyk, M.; Firchau, T.; Luebken, A.; Palade, T.P.; Pastrav, A.; Puschita, E. SpaceWire-to-UWB Wireless Interface Units for Intra-spacecraft Communication Links. Sensors 2023, 23, 1363. <a href="https://doi.org/10.3390/s23031363">https://doi.org/10.3390/s23031363</a>                                       | 9 | 1.78 |
| 10 | B. S. Kirei, V.-I.-M. Chereja, S. Hintea, M. D. Topa, "PAELib: A VHDL Library for Area and Power Dissipation Estimation of CMOS Logic Circuits," Advances in Electrical and Computer Engineering, vol.19, no.1, pp.9-16, 2019, doi:10.4316/AECE.2019.01002 | M. Milic, "Tuning Logic Simulator for Estimation of VLSI Timing Degradation under Aging," Advances in Electrical and Computer Engineering, vol.19, no.3, pp.75-82, 2019, doi:10.4316/AECE.2019.03009                                                                                                                             | 4 | 2.00 |
| 11 | B.S. Kirei et al., Power and Area Estimation of Discrete Filters in CMOS Integrated Circuits/2019 Signal Processing: Algorithms, Architectures, Arrangements, and Applications (SPA), Poznan, Poland, 2019, pp. 67-70                                      | Govindaraj, V., & Arunadevi, B. (2021). Machine Learning Based Power Estimation for CMOS VLSI Circuits. Applied Artificial Intelligence, 35(13), 1043–1055. <a href="https://doi.org/10.1080/08839514.2021.1966885">https://doi.org/10.1080/08839514.2021.1966885</a>                                                            | 3 | 5.33 |
| 12 | V.I.M. Chereja et al., Power Dissipation Estimation of CMOS Digital Circuits at the Gate Level in VHDL / 2018 International Symposium on Electronics and Telecommunications (ISETC), Timisoara, 2018, pp. 1-4, doi: 10.1109/ISETC.2018.8583957             | Wang, P., Duan, X. Probing and pushing the limit of emerging electronic materials via van der Waals integration. MRS Bulletin 46, 534–546 (2021). <a href="https://doi.org/10.1557/s43577-021-00130-3">https://doi.org/10.1557/s43577-021-00130-3</a>                                                                            | 5 | 3.20 |
| 13 |                                                                                                                                                                                                                                                            | Pon, S. Asha and V. Jeyalakshmi. "Analysis of Switching Activity in Various Implementation of Combinational circuit." 2020 6th International Conference on Advanced Computing and Communication Systems (ICACCS) (2020): 115-121.                                                                                                | 6 | 1.33 |
| 14 | E. Szopos, I. Saracut, B. S. Kirei and M. Dana Topa, "Discrete domain modeling of an all-digital frequency locked loop," 2017 International Semiconductor Conference (CAS), 2017, pp. 247-250, WOS:000425844500054, doi: 10.1109/SMICND.2017.8101214.      | Khaliq, A., Sampe, J., Hashim, F.H. et al. A comprehensive review: ultra-low power all-digital phase-locked loop RF transceivers for biomedical monitoring applications. Analog Integr Circ Sig Process 119, 391–415 (2024). <a href="https://doi.org/10.1007/s10470-024-02272-1">https://doi.org/10.1007/s10470-024-02272-1</a> | 5 | 1.60 |
| 15 |                                                                                                                                                                                                                                                            | The Fractional-N All Digital Frequency Locked Loop with Robustness for PVT Variation and Its Application for the Microcontroller Unit Miyauchi, R; Yoshida, A; (...); Sekiya, Y Aug 2021   IEICE TRANSACTIONS ON INFORMATION AND SYSTEMS E104D (8) , pp.1146-1153                                                                | 5 | 1.60 |

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| 16 |                                                                                                                                                                                                                                                                                                             | Novel Fractional-N All Digital Frequency Locked Loop with Robustness for PVT variation<br>Miyauchi, R; Yoshida, A; (...); Sekiya, Y<br>IEEE 50th International Symposium on Multiple-Valued Logic (ISMVL) 2020  <br>2020 IEEE 50TH INTERNATIONAL SYMPOSIUM ON MULTIPLE-VALUED LOGIC (ISMVL 2020) , pp.159-163 | 5 | 1.60 |
| 17 |                                                                                                                                                                                                                                                                                                             | S. N. Ishak et al., ALL-DIGITAL PHASE LOCKED LOOP (ADPLL) TOPOLOGIES FOR RFID SYSTEM APPLICATION: A REVIEW. (2021). Jurnal Teknologi (Sciences & Engineering), 84(1), 219-230.<br><a href="https://doi.org/10.11113/jurnalteknologi.v84.17123">https://doi.org/10.11113/jurnalteknologi.v84.17123</a>         | 5 | 1.60 |
| 18 |                                                                                                                                                                                                                                                                                                             | DIGITAL CONTROLLED OSCILLATOR (DCO) FOR ALL DIGITAL PHASE-LOCKED LOOP (ADPLL) - A REVIEW , Choong, Florence; Reaz, Mamun Ibne; Kamaruzzaman, Mohamad Ibrahim; et al., JURNAL TEKNOLOGI Volume: 82 Issue: 1 Pages: 29-40 Published: JAN 2020                                                                   | 5 | 1.60 |
| 19 | Botond Sandor Kirei, Calin Farcas, Robert Groza, Marina Dana Topa, "An All-Digital Frequency Locked Loop and its Linearized s-domain Model", Proceedings of the 59th International IEEE Symposium ELMAR-2017, ISBN 978-953-184-209-9, pp. 91-94, Zadar, Croatia, 18-10 September, 2017, WOS:000426893100021 | DIGITAL CONTROLLED OSCILLATOR (DCO) FOR ALL DIGITAL PHASE-LOCKED LOOP (ADPLL) - A REVIEW , Choong, Florence; Reaz, Mamun Ibne; Kamaruzzaman, Mohamad Ibrahim; et al., JURNAL TEKNOLOGI Volume: 82 Issue: 1 Pages: 29-40 Published: JAN 2020                                                                   | 4 | 2.00 |
| 20 |                                                                                                                                                                                                                                                                                                             | P. Sarkar, Precision Clock Generation with Reference clock Loss Tolerant Dynamic Tuning to enable Crystal less SSD, 2025 38TH INTERNATIONAL CONFERENCE ON VLSI DESIGN AND 2024 23RD INTERNATIONAL CONFERENCE ON EMBEDDED SYSTEMS, VLSID , pp.552-557                                                          | 4 | 2.00 |
| 21 |                                                                                                                                                                                                                                                                                                             | An Ultra-Low Power, Adaptive All-Digital Frequency-Locked Loop With Gain Estimation and Constant Current DCO, Ali, Imran; Abbasizadeh, Hamed; Rehman, Muhammad Riaz Ur; et al.IEEE ACCESS Volume: 8 Pages: 97215-97230 Published: 2020                                                                        | 4 | 4.00 |
| 22 |                                                                                                                                                                                                                                                                                                             | The Fractional-N All Digital Frequency Locked Loop with Robustness for PVT Variation and Its Application for the Microcontroller Unit<br>Miyauchi, R; Yoshida, A; (...); Sekiya, Y<br>Aug 2021   IEICE TRANSACTIONS ON INFORMATION AND SYSTEMS E104D (8) , pp.1146-1153                                       | 4 | 2.00 |
| 23 |                                                                                                                                                                                                                                                                                                             | Novel Fractional-N All Digital Frequency Locked Loop with Robustness for PVT variation<br>Miyauchi, R; Yoshida, A; (...); Sekiya, Y<br>IEEE 50th International Symposium on Multiple-Valued Logic (ISMVL) 2020  <br>2020 IEEE 50TH INTERNATIONAL SYMPOSIUM ON MULTIPLE-VALUED LOGIC (ISMVL 2020) , pp.159-163 | 4 | 2.00 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| 24 | Cristian Conțan, Botond Sandor Kirei, Marina Dana Țopa, "Error-dependent step-size control of adaptive normalized least-mean-square filters used for nonlinear acoustic echo cancellation", <i>Signal, Image and Video Processing, Springer</i> , ISSN 1863-1703, Vol. 10, no 3, pp. 511-518, 2016, WOS:000370722800013 | „Reduced complexity diffusion filtered x least mean square algorithm for distributed active noise cancellation”, Kukde, Ruchi, Manikandan, M. Sabarimalai, Panda, Ganapati, <i>SIGNAL IMAGE AND VIDEO PROCESSING</i> , Volume: 13, Issue: 3, Pages: 447-455, DOI: 10.1007/s11760-018-01412-1, Published: APR 2019                                                                                                             | 3 | 2.67 |
| 25 |                                                                                                                                                                                                                                                                                                                         | Combined functional link adaptive filter for nonlinear acoustic echo cancellation, Raghuwanshi, Jitendra; Mishra, Amit; Singh, Narendra, <i>ANALOG INTEGRATED CIRCUITS AND SIGNAL PROCESSING</i> Volume: 105 Issue: 2 Pages: 249-262 Published: NOV 2020                                                                                                                                                                      | 3 | 2.67 |
| 26 |                                                                                                                                                                                                                                                                                                                         | A Variable Step-Size Partial-Update Normalized Least Mean Square Algorithm for Second-Order Adaptive Volterra Filters, Mayyas, Khaled, Afeef, Liza, <i>CIRCUITS SYSTEMS AND SIGNAL PROCESSING</i> Volume: 39 Issue: 12 Pages: 6073-6097 Published: DEC 2020                                                                                                                                                                   | 3 | 2.67 |
| 27 |                                                                                                                                                                                                                                                                                                                         | A. Carini, M. V. S. Lima, H. Yazdanpanah, S. Orcioni and S. Cecchi, "A Variable Step-Size for Sparse Nonlinear Adaptive Filters," 2020 28th European Signal Processing Conference (EUSIPCO), 2021, pp. 2383-2387, doi: 10.23919/Eusipco47968.2020.9287864.                                                                                                                                                                    | 3 | 2.67 |
| 28 |                                                                                                                                                                                                                                                                                                                         | C. Contan and M. Topa, "Scaling factor computation for EDSC adaptation," 2015 57th International Symposium ELMAR (ELMAR), Zadar, Croatia, 2015, pp. 97-100, doi: 10.1109/ELMAR.2015.7334505.                                                                                                                                                                                                                                  | 3 | 2.67 |
| 29 | Robert Groza, Ioana Adriana Potârniche, Botond Sandor Kirei, Marina Dana Țopa, "Digitally controlled oscillator for all-digital frequency locked loops", <i>Romanian Journal of Information Science and Technology</i> , ISSN 1453-8245, Vol. 21, no 1, pp. 3-17, 2018, WOS:000433876800001                             | DIGITAL CONTROLLED OSCILLATOR (DCO) FOR ALL DIGITAL PHASE-LOCKED LOOP (ADPLL) - A REVIEW , Choong, Florence; Reaz, Mamun Ibne; Kamaruzzaman, Mohamad Ibrahim; et al., <i>JURNAL TEKNOLOGI</i> Volume: 82 Issue: 1 Pages: 29-40 Published: JAN 2020                                                                                                                                                                            | 4 | 2.00 |
| 30 |                                                                                                                                                                                                                                                                                                                         | S. Asgari, A. Mohammadpanah, E. Ghafar-Zadeh and S. Magierowski, "An All Digital PLL in 22-nm FD SOI for Hardware Accelerated Embedded Systems," 2024 IEEE Canadian Conference on Electrical and Computer Engineering (CCECE), Kingston, ON, Canada, 2024, pp. 1-7, doi: 10.1109/CCECE59415.2024.10667180.                                                                                                                    | 4 | 2.00 |
| 31 |                                                                                                                                                                                                                                                                                                                         | Yadav, L., Duhan, M. (2023). All Digital Phase Locked Loop (ADPLL) and Its Blocks—A Comprehensive Knowledge. In: Kountchev, R., Mironov, R., Nakamatsu, K. (eds) <i>New Approaches for Multidimensional Signal Processing. NAMSP 2022. Smart Innovation, Systems and Technologies</i> , vol 332. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-19-7842-5_21">https://doi.org/10.1007/978-981-19-7842-5_21</a> | 4 | 2.00 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|--|----|------------------------|
| 32 | A. Grăjdeanu, C. Răducan, C. Plesa, B. S. Kirei and M. Neag, "Comparison of four design environments employed to analyze a switched-capacitor DC-DC converter," 2016 12th IEEE International Symposium on Electronics and Telecommunications (ISETC), 2016, pp. 190-193, doi: 10.1109/ISETC.2016.7781088. | Nicolae Adrian BRAIC, Cristian RADUCAN, Marius NEAG, Marina TOPA, Vlad IONESCU, „Ascertaining the root-cause of discrepancies between simulations and measurements for a SC DC-DC converter”, Romanian Journal of Information Science and Technology (ROMJIST), Volume 23, No. 4, 2020, pp. 333-353, Paper no. 666/2020 | 4 | 4.00 |  | Q1 | <a href="#">ref.7</a>  |
| 33 |                                                                                                                                                                                                                                                                                                           | DK Ansari et al., ython and SIMETRIX/SIMPLIS based automated platform for the DC-DC Converter with current mode control, 2024 39TH CONFERENCE ON DESIGN OF CIRCUITS AND INTEGRATED SYSTEMS, DCIS, Catania, ITALY, NOV 13-15, 2024, Page19-22, DOI10.1109/DCIS62603.2024.10769148                                        | 4 | 2.00 |  |    | <a href="#">ref.4</a>  |
| 34 | Contan, Cristian; Kirei, Botond Sandor; Topa, Marina Dana, "Modified NLMF adaptation of Volterra filters used for nonlinear acoustic echo cancellation", SIGNAL PROCESSING, Volume: 93, Issue: 5, pp 1152-1161, MAY 2014                                                                                  | V. Soni Ishwarya and M. Kothandaraman, "Novel TransQT Neural Network: A Deep Learning Framework for Acoustic Echo Cancellation in Noisy Double-Talk Scenario," in IEEE Access, vol. 12, pp. 114735-114744, 2024, doi: 10.1109/ACCESS.2024.3445279.                                                                      | 3 | 5.33 |  | Q2 | <a href="#">ref.7</a>  |
| 35 |                                                                                                                                                                                                                                                                                                           | Srikanth Burra, Asutosh Kar, Nonlinear stereophonic acoustic echo cancellation using sub-filter based adaptive algorithm, Digital Signal Processing, Volume 121, 2022, 103323, ISSN 1051-2004, https://doi.org/10.1016/j.dsp.2021.103323.                                                                               | 3 | 5.33 |  | Q2 | <a href="#">ref.8</a>  |
| 36 |                                                                                                                                                                                                                                                                                                           | Srikanth Burra, Asutosh Kar, Performance analysis of an improved split functional link adaptive filtering algorithm for nonlinear AEC, Applied Acoustics, Volume 176, 2021, 107863, ISSN 0003-682X, https://doi.org/10.1016/j.apacoust.2020.107863.                                                                     | 3 | 5.33 |  | Q1 | <a href="#">ref.15</a> |
| 37 |                                                                                                                                                                                                                                                                                                           | Zhao, YB., Yan, T., Chen, WY. et al. A Collaborative Spline Adaptive Filter for Nonlinear Echo Cancellation. Circuits Syst Signal Process 40, 1699–1719 (2021). https://doi.org/10.1007/s00034-020-01544-1                                                                                                              | 3 | 2.67 |  |    | <a href="#">ref.15</a> |

|    |                                                                                                                                                                                                                                                                                                                                                                                            |   |      |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| 38 | Engin Cemal Mengüç,<br>Design of quaternion-valued second-order Volterra adaptive filters for nonlinear 3-D and 4-D signals,<br>Signal Processing,<br>Volume 174,<br>2020,<br>107619,<br>ISSN 0165-1684,<br><a href="https://doi.org/10.1016/j.sigpro.2020.107619">https://doi.org/10.1016/j.sigpro.2020.107619</a> .                                                                      | 3 | 5.33 |
| 39 | Bayesian Volterra system identification using reversible jump MCMC algorithm<br>Karakus, O., Kuruoglu, E.E., Altinkaya, M.A.<br>Signal Processing<br>volume 141, issue , year 2017, pp. 125 - 137                                                                                                                                                                                          | 3 | 5.33 |
| 40 | Tian, Bf., Zhou, Yy., Zhu, H. et al. Noise cancellation of a multi-reference full-wave magnetic resonance sounding signal based on a modified sigmoid variable step size least mean square algorithm. J. Cent. South Univ. 24, 900–911 (2017). <a href="https://doi.org/10.1007/s11771-017-3492-y">https://doi.org/10.1007/s11771-017-3492-y</a>                                           | 3 | 5.33 |
| 41 | Lu Lu, Haiquan Zhao, Badong Chen,<br>Collaborative adaptive Volterra filters for nonlinear system identification in $\alpha$ -stable noise environments,<br>Journal of the Franklin Institute,<br>Volume 353, Issue 17,<br>2016,<br>Pages 4500-4525,<br>ISSN 0016-0032,<br><a href="https://doi.org/10.1016/j.jfranklin.2016.08.025">https://doi.org/10.1016/j.jfranklin.2016.08.025</a> . | 3 | 5.33 |
| 42 | Cheng, C.M., Peng, Z.K., Zhang, W.M. et al. A novel approach for identification of cascade of Hammerstein model. Nonlinear Dyn 86, 513–522 (2016). <a href="https://doi.org/10.1007/s11071-016-2904-0">https://doi.org/10.1007/s11071-016-2904-0</a>                                                                                                                                       | 3 | 5.33 |
| 43 | Jingen Ni, Jian Yang, Variable step-size diffusion least mean fourth algorithm for distributed estimation, Signal Processing, Volume 122, May 2016, Pages 93-97, ISSN 0165-1684,<br><a href="http://dx.doi.org/10.1016/j.sigpro.2015.11.020">http://dx.doi.org/10.1016/j.sigpro.2015.11.020</a> .                                                                                          | 3 | 5.33 |
| 44 | Zhao, Haiquan and Wenyuan Wang. "Volterra system identification under maximum correntropy criteria in impulsive environments." 2016 35th Chinese Control Conference (CCC) (2016): 5067-5070.                                                                                                                                                                                               | 3 | 2.67 |
| 45 | Lu Lu, Haiquan Zhao, Zhengyou He, Badong Chen, A novel sign adaptation scheme for convex combination of two adaptive filters, AEU - International Journal of Electronics and Communications, Volume 69, Issue 11, November 2015, Pages 1590-1598, ISSN 1434-8411,<br><a href="http://dx.doi.org/10.1016/j.aeue.2015.07.009">http://dx.doi.org/10.1016/j.aeue.2015.07.009</a> .             | 3 | 5.33 |

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| 46 |                                                                                                                                                                                                                                                                                           | H. Zhao, L. Lu, Z. He, B. Chen, Adaptive recursive algorithm with logarithmic transformation for nonlinear system identification in alpha-stable noise. Digital Signal Processing, volume 46, issue , year 2015, pp. 120 - 132                                                                                                              | 3 | 5.33 |
| 47 |                                                                                                                                                                                                                                                                                           | Zou, De-xuan, Li-qun Gao, and Steven Li. "Volterra filter modeling of a nonlinear discrete-time system based on a ranked differential evolution algorithm." Journal of Zhejiang University SCIENCE C 15.8 (2014): 687-696.                                                                                                                  | 3 | 2.67 |
| 48 |                                                                                                                                                                                                                                                                                           | Comminiello, D., Scarpiniti, M., Azpicueta-Ruiz, L. A., Arenas-García, J., & Uncini, A. (2014). Nonlinear acoustic echo cancellation based on sparse functional link representations. IEEE/ACM Transactions on Audio, Speech and Language Processing (TASLP), 22(7), 1172-1183.                                                             | 3 | 5.33 |
| 49 |                                                                                                                                                                                                                                                                                           | CARINI, Alberto; SICURANZA, Giovanni L. Fourier nonlinear filters. Signal Processing, 2014, 94: 183-194.                                                                                                                                                                                                                                    | 3 | 5.33 |
| 50 | Marina Dana Țopa, Norbert Toma, Botond Sandor Kirei, Angelo Farina, Ioana Sărăcuț, "Experimental Acoustic Evaluation of An Auditorium", Advances in Acoustics and Vibration, ISSN: 1687-6261 (Print), ISSN: 1687-627X (Online), Volume 2012, Article ID 868247, 8 pages, 2012.            | V. Soni Ishwarya and M. Kothandaraman, "Novel TransQT Neural Network: A Deep Learning Framework for Acoustic Echo Cancellation in Noisy Double-Talk Scenario," in IEEE Access, vol. 12, pp. 114735-114744, 2024, doi: 10.1109/ACCESS.2024.3445279.                                                                                          | 5 | 1.60 |
| 51 |                                                                                                                                                                                                                                                                                           | Umbarkar, A.S., Nandanwar, D.V., Chimankar, O.P. (2022). Preliminary Archaeoacoustic Study of Kanheri Caves in Mumbai (Maharashtra, India). Sound & Vibration, 56(2), 193–203. <a href="https://doi.org/10.32604/sv.2022.015322">https://doi.org/10.32604/sv.2022.015322</a>                                                                | 5 | 1.60 |
| 52 | Cristian Conțan, Ioana Homăună, Marina Țopa, Botond Sandor Kirei, "Nonlinear Acoustic System Identification using a Combination of Volterra and Power Filters", Proceedings of IEEE Symposium on Signals, Circuits and Systems (ISSCS), pp. 431-434, Iași, Romania, June 30-July 1, 2011. | Gupta, D. K., V. K. Gupta, and Mahesh Chandra. "Review Paper on Linear and Nonlinear Acoustic Echo Cancellation." Proceedings of the 3rd International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2014. Springer International Publishing, 2015. BDI: Springerlink                                   | 4 | 1.00 |
| 53 |                                                                                                                                                                                                                                                                                           | Barabanov, A., Vikulov, E. (2017). Design of Online Echo Canceller in Duplex Mode. In: Karpov, A., Potapova, R., Mporas, I. (eds) Speech and Computer. SPECOM 2017. Lecture Notes in Computer Science(), vol 10458. Springer, Cham. <a href="https://doi.org/10.1007/978-3-319-66429-3_28">https://doi.org/10.1007/978-3-319-66429-3_28</a> | 4 | 1.00 |
| 54 | Homana, I.; Topa, M.D.; Kirei, B.S., "Echo cancelling using adaptive algorithms," 15th International Symposium for Design and Technology of Electronics Packages, (SIITME) 2009, pp.317,321, 17-20 Sept. 2009                                                                             | I. E. Mourabit, A. Badri, A. Sahel and A. Baghdad, "Comparative study of the Least Mean Square and Normalized Least Mean Square adaptive filters for positioning purposes," Proceedings of 2014 Mediterranean Microwave Symposium (MMS2014), Marrakech, 2014, pp. 1-4. doi: 10.1109/MMS.2014.7088971                                        | 3 | 2.67 |

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| 55 | Kirei, B. S.; Neag, M. G.; Topa, M. D., "Blind Frequency-Selective I/Q Mismatch Compensation Using Subband Processing", IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS II-EXPRESS BRIEFS, Vol: 59, Is: 5, pp 302-306, MAY 2012 | Tai Xin, Zuo Yongfeng and Liu Liang, "Baseband signal predistortion based compensation technique for broadband I/Q modulation impairments in vector signal generators," 2015 12th IEEE International Conference on Electronic Measurement & Instruments (ICEMI), Qingdao, 2015, pp. 993-998.                                                             | 3 | 2.67 |
| 56 |                                                                                                                                                                                                                           | Compensation of Delay Mismatch in a Direct Conversion Transmitter<br>By: Zhu, Zhiwen; Huang, Xinping; Leung, Henry<br>IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS II-EXPRESS BRIEFS<br>Volume: 61 Issue: 12 Pages: 927-931 Published: DEC 2014                                                                                                             | 4 | 4.00 |
| 57 |                                                                                                                                                                                                                           | Relations Between Zero-IF Receiver I/Q and TI-ADC Channel Mismatches<br>By: Johansson, Hakan<br>IEEE TRANSACTIONS ON SIGNAL PROCESSING Volume: 62 Issue: 13<br>Pages: 3403-3414 Published: JUL 2014                                                                                                                                                      | 3 | 5.33 |
| 58 |                                                                                                                                                                                                                           | Golay Sequence Based Time-Domain Compensation of Frequency-Dependent I/Q Imbalance<br>By: Chen Lei; Luo Zhigang; Cheng Xiantao; et al.<br>CHINA COMMUNICATIONS Volume: 11 Issue: 6 Pages: 1-11<br>Published: JUN 2014                                                                                                                                    | 3 | 2.67 |
| 59 |                                                                                                                                                                                                                           | Joint I/Q Mismatch and Distortion Compensation in Direct Conversion Transmitters<br>By: Zhu, Zhiwen; Huang, Xinping; Leung, Henry<br>IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS 2013 Volume: 12<br>Issue: 6 Pages: 2941-2951                                                                                                                           | 3 | 5.33 |
| 60 |                                                                                                                                                                                                                           | Ali Nikoofard, Siavash Kananian, Ehsan Hadizadeh, Ali Fotowat-Ahmady, A fully analog side-band cancellation technique in radio-frequency transmitters,<br>Microelectronics Journal,<br>Volume 53,<br>2016,<br>Pages 116-126,<br>ISSN 0026-2692,<br><a href="https://doi.org/10.1016/j.mejo.2016.04.014">https://doi.org/10.1016/j.mejo.2016.04.014</a> . | 3 | 2.67 |
| 61 |                                                                                                                                                                                                                           | D. G. Popescu, M. Varga and V. Bota, "Comparison between measured and computed values of the mean mutual information per coded bits in OFDM based wireless transmissions," 2013 36th International Conference on Telecommunications and Signal Processing (TSP), 2013, pp. 380-384, doi: 10.1109/TSP.2013.6613957.                                       | 3 | 2.67 |
| 62 |                                                                                                                                                                                                                           | A. Ishaque and G. Ascheid, "A blind-ML Method for frequency-selective I/Q mismatch compensation in low-IF receivers," 2013 IEEE Wireless Communications and Networking Conference (WCNC), 2013, pp. 2513-2518, doi: 10.1109/WCNC.2013.6554956.                                                                                                           | 4 | 2.00 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| 63 |                                                                                                                                                                                                                                                            | C. Liu et al., "A Self-Calibration Method of I/Q Mismatch in Direct-Conversion Transceiver," 2024 IEEE AUTOTESTCON, National Harbor, MD, USA, 2024, pp. 1-5, doi: 10.1109/AUTOTESTCON47465.2024.10697433.                                                                                                                                                     | 4 | 2.00 |
| 64 | Topa, Marina Dana; Toma, Norbert; Kirei, Botond Sandor; Homana, Ioana; Neag, Marius; De Mey, Gilber; "Comparison of different experimental methods for the assessment of the room's acoustics", ACOUSTICAL PHYSICS, Vol. 57, Is. 2, pp.: 199-207, MAR 2011 | D. Poirier-Quinot, Cue-preserving auralisations for blind exploration of virtual indoor environments, TECHNOLOGY AND DISABILITY/ DOI10.1177/10554181251339605                                                                                                                                                                                                 | 6 | 1.33 |
| 65 |                                                                                                                                                                                                                                                            | Papadakis, N.M.; Stavroulakis, G.E. Review of Acoustic Sources Alternatives to a Dodecahedron Speaker. Appl. Sci. 2019, 9, 3705. <a href="https://doi.org/10.3390/app9183706">https://doi.org/10.3390/app9183706</a>                                                                                                                                          | 6 | 2.67 |
| 66 |                                                                                                                                                                                                                                                            | Papadakis, N.M.; Stavroulakis, G.E. Low Cost Omnidirectional Sound Source Utilizing a Common Directional Loudspeaker for Impulse Response Measurements. Appl. Sci. 2018, 8, 1703. <a href="https://doi.org/10.3390/app8091703">https://doi.org/10.3390/app8091703</a>                                                                                         | 6 | 2.67 |
| 67 |                                                                                                                                                                                                                                                            | Cabrera, D., Xun, J. & Guski, M. Calculating Reverberation Time from Impulse Responses: A Comparison of Software Implementations. Acoust Aust 44, 369–378 (2016). <a href="https://doi.org/10.1007/s40857-016-0055-6">https://doi.org/10.1007/s40857-016-0055-6</a>                                                                                           | 6 | 1.33 |
| 68 |                                                                                                                                                                                                                                                            | Changes in the Acoustics of the Moscow Conservatory Great Hall Two Years after Reconstruction<br>By: Kanev, N. G.; Livshits, A. Ya.<br>ACOUSTICAL PHYSICS Volume: 60 Issue: 2 Pages: 197-199 Published: MAR 2014                                                                                                                                              | 6 | 1.33 |
| 69 |                                                                                                                                                                                                                                                            | Acoustics of the Great Hall of the Moscow State Conservatory after reconstruction in 2010-2011<br>By: Kanev, N. G.; Livshits, A. Ya.; Moller, H.<br>ACOUSTICAL PHYSICS Volume: 59 Issue: 3 Pages: 361-368 Published: MAY 2013                                                                                                                                 | 6 | 1.33 |
| 70 | Kirei, Botond Sandor; Topa, Marina Dana; Muresan, Irina; Homana, Ioana; Toma, Norbert; "Blind Source Separation for Convolutional Mixtures with Neural Networks", ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, Vol. 11, Is. 1, pp. 63-68, 2011         | Y. Zhang and J. Xin, "Convolution separation and application of joint diagonalization with optimal parameters on mechanical signals," Journal of Vibroengineering, Vol. 23, No. 8, pp. 1707–1715, Aug. 2021, <a href="https://doi.org/10.21595/jve.2021.21961">https://doi.org/10.21595/jve.2021.21961</a> Digital Object Identifier: 10.4316/AECE.2017.02014 | 5 | 1.60 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| 71 |                                                                                                                                                                                                                                                                     | An Adaptive Sparse Algorithm for Synthesizing Note Specific Atoms by Spectrum Analysis, Applied to Music Signal Separation, M. Azamian, E. Kabir, S. Seyedin, E. Masehian, Advances in Electrical and Computer Engineering, Volume 17, Issue 2, Year 2017, On page(s): 103 - 112<br>ISSN: 1582-7445, e-ISSN: 1844-7600<br>Digital Object Identifier: 10.4316/AECE.2017.02014 | 5 | 1.60 |
| 72 |                                                                                                                                                                                                                                                                     | Binary Spectral Masking for Speech Recognition Systems<br>By: Siqueira Versiani, Thiago de Souza; Rodrigues, Gustavo Fernandes; Silva de Souza, Ana Claudia; et al.<br>35th International Conference on Telecommunications and Signal Processing (TSP), Prague, CZECH REPUBLIC, JUL 03-04, 2012                                                                              | 5 | 1.60 |
| 73 |                                                                                                                                                                                                                                                                     | Design and Implementation of Dual-Microphone Adaptive-Active Noise Cancellation System for De-Noising Speech Signal<br>By: Sharifi-Tehrani, Omid; Ghafarioun, Ehsan<br>PRZEGLAD ELEKTROTECHNICZNY Volume: 88 Issue: 2 Pages: 258-261<br>Published: 2012                                                                                                                      | 5 | 1.60 |
| 74 | I. Homana, M. Topa, K. Botond and C. Contan, "Behavior of variable step size NLMS algorithms for acoustic echo cancellation," ISSCS 2011 - International Symposium on Signals, Circuits and Systems, Iasi, Romania, 2011, pp. 1-4, doi: 10.1109/ISSCS.2011.5978731. | Casco-Sanchez, F., Lopez-Guerrero, M., Javier-Alvarez, S. and Medina-Ramirez, R.C. (2019), A variable-step size NLMS algorithm based on the cross-correlation between the squared output error and the near-end input signal. IEEJ Trans Elec Electron Eng, 14: 1197-1202.<br><a href="https://doi.org/10.1002/tee.22918">https://doi.org/10.1002/tee.22918</a>              | 4 | 2.00 |
| 75 | Homana, Ioana; Topa, Marina; Kirei, Botond Sandor; Contan, Cristian; "Adaptive Algorithms for Double-Talk Echo Cancelling", 9th International Symposium on Electronics and Telecommunications (ISETC), Timisoara, ROMANIA, NOV 11-12, 2010                          | Acoustic Echo and Noise Cancellation System for Hand-Free Telecommunication using Variable Step Size Algorithms<br>By: Gupta, V. K.; Chandra, Mahesh; Sharan, S. N.<br>RADIOENGINEERING Volume: 22 Issue: 1 Special Issue: SI Pages: 200-207 Part: 1 Published: APR 2013                                                                                                     | 4 | 2.00 |
| 76 |                                                                                                                                                                                                                                                                     | M. Hamidia and A. Amrouche, "Double-talk detection using the singular value decomposition for acoustic echo cancellation," 2013 IEEE International Conference on Communications (ICC), 2013, pp. 4745-4749, doi: 10.1109/ICC.2013.6655323.                                                                                                                                   | 4 | 2.00 |
| 77 | M. D. Topa, I. Muresan, B. S. Kirei, I. Homana, "Digital Adaptive Echo-Canceller for Room Acoustics Improvement," Advances in Electrical and Computer Engineering, vol.10, no.1, pp.50-53, 2010, doi:10.4316/AECE.2010.01008                                        | Y. A. Kropotov, A. A. Belov, A. Y. Proskuryakov and A. A. Kolpakov, "Investigation of signal models and methods for evaluating structures of processing telecommunication information exchange systems under acoustic noise conditions", Journal of Physics: Conference Series, Volume 1015, Issue 2, 2018, doi: 10.1088/1742-6596/1015/2/022010                             | 4 | 2.00 |
| 78 |                                                                                                                                                                                                                                                                     | Upal Mahbub, Shaikh Anowarul Fattah, Wei-Ping Zhu, M Omair Ahmad, Single-channel acoustic echo cancellation in noise based on gradient-based adaptive filtering, EURASIP Journal on Audio, Speech, and Music Processing<br>December 2014, 2014:20,                                                                                                                           | 4 | 4.00 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| 79 |                                                                                                                                                                                                                                                                                                         | Xiaochuan He , Rafik A. Goubran, Peter X. Liu, A novel sub-band adaptive filtering for acoustic echo cancellation based on empirical mode decomposition algorithm, International Journal of Speech Technology March 2014, Volume 17, Issue 1, pp 37-42                                                                       | 4 | 2.00 |
| 80 | Ioana Homăună, Marina Dana Țopa, Botond Sandor Kirei, "Semi-blind equalization using the Constant Modulus Algorithm", Proceedings of the 2010 IEEE International Conference on Automation, Quality and Testing (AQTR 2010), ISBN 978-1-4244-6722-8, pp. 299-302, Cluj-Napoca, Romania, May 28-30, 2010. | Jacklin, Neil, and Zhi Ding. "On efficient utilization of training pilots for linear equalization of QAM transmissions." Communications, IEEE Transactions on 61.12 (2013): 4984-4996.                                                                                                                                       | 3 | 5.33 |
| 81 | V. Popescu, B. S. Kirei, M. Țopa, C. Munteanu, "Analysis of Lossless Differential Microstrip Line", Proceedings of the 30th IEEE International Spring Seminar on Electronics Technology ISSE, ISBN 1-4244-1218-8, pp. 551-554, Cluj-Napoca, Romania, 9-13 May, 2007.                                    | Yao, Wei, et al. "Worst-Case Estimation for Data-Dependent Timing Jitter and Amplitude Noise in High-Speed Differential Link." Very Large Scale Integration (VLSI) Systems, IEEE Transactions on 20.1 (2012): 89-97.                                                                                                         | 3 | 5.33 |
| 82 |                                                                                                                                                                                                                                                                                                         | Wei Yao, Yiyu Shi, Lei He, Sudhakar Pamarti, and Yu Hu. 2009. Worst case timing jitter and amplitude noise in differential signaling. In Proceedings of the 2009 10th International Symposium on Quality of Electronic Design (ISQED '09). IEEE Computer Society, USA, 40–46. DOI:https://doi.org/10.1109/ISQED.2009.4810267 | 3 | 2.67 |
| 83 | Dornean, Irina; Țopa, Marina; Kirei, Botond Sandor; Neag, Marius; "Sub-Band Adaptive Filtering for Acoustic Echo Cancellation", European Conference on Circuit Theory Design, Antalya, TURKEY, pp. 810-813, AUG 23-27, 2009                                                                             | Zeher A, Bilbault J-M, Binczak S. Detection and measurement of radio frequency feedback for an on-frequency repeater. Int J Commun Syst. 2017;30:e3269. https://doi.org/10.1002/dac.3269                                                                                                                                     | 4 | 2.00 |
| 84 |                                                                                                                                                                                                                                                                                                         | J. McDonough, W. Chu, K. Kumatani, B. Raj and J. F. Lehman, "An information filter for voice prompt suppression," 2011 Conference Record of the Forty Fifth Asilomar Conference on Signals, Systems and Computers (ASILOMAR), 2011, pp. 321-325, doi: 10.1109/ACSSC.2011.6190011.                                            | 4 | 2.00 |
| 85 | Botond Sandor Kirei, Marina Țopa, Albert Csaba Fazakas, Norbert Toma, "Novel FIR Implementation for Acoustic Signal Processing", Proceedings of the 15th International Symposium for Design and Technology of Electronics Packages SIITME2009, pp 387-390, Gyula, Hungary, 17-20 September, 2009.       | Zeher A, Bilbault J-M, Binczak S. Detection and measurement of radio frequency feedback for an on-frequency repeater. Int J Commun Syst. 2017;30:e3269. https://doi.org/10.1002/dac.3269                                                                                                                                     | 4 | 2.00 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| 86 | I. Dornean, M. Topa, B. S. Kirei and G. Oltean, "HDL implementation of the variable step size N-LMS adaptive algorithm," 2008 IEEE International Conference on Automation, Quality and Testing, Robotics, 2008, pp. 243-246, doi: 10.1109/AQTR.2008.4588920. | V. Ramakrishna and T. A. Kumar, "Low Power VLSI Implementation of Adaptive Noise Canceller Based on Least Mean Square Algorithm," 2013 4th International Conference on Intelligent Systems, Modelling and Simulation, 2013, pp. 276-279, doi: 10.1109/ISMS.2013.84. | 4 | 2.00 |
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| <b>A3.1.2. Citari in reviste si volume ale unor manifestari stiintifice indexate in alte baze de date internationale (BDI): Scopus, IEEE, Science Direct, Elsevier, Springerlink, ACM, DBLP, EURASIP; se exclud autocitatile</b> | <b>Punctaj</b> | <b>Numar</b> |
|                                                                                                                                                                                                                                  | <b>37.378</b>  | <b>45</b>    |

| Nr. | Articol citat                                                                                                                                                                                                                                                                                               | Articol care citeaza /BDI                                                                                                                                                                                                                                                                                  | Num aut. art.citat | Punctaj |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------|
| 1   | Botond Sandor Kirei, Calin Farcas, Robert Groza, Marina Dana Țopa, "An All-Digital Frequency Locked Loop and its Linearized s-domain Model", Proceedings of the 59th International IEEE Symposium ELMAR-2017, ISBN 978-953-184-209-9, pp. 91-94, Zadar, Croatia, 18-10 September, 2017, WOS:000426893100021 | Sarkar P., Gupta N., Aravind P., Odedara B., Shahar D. , Precision Clock Generation with Reference Clock Loss Tolerant Dynamic Tuning to Enable Crystal Less SSD, (2025) Proceedings of the IEEE International Conference on VLSI Design, pp. 552 - 557, DOI: 10.1109/VLSID64188.2025.00107<br>BDI: Scopus | 4                  | 1.00    |
| 2   | Marina Dana Țopa, Norbert Toma, Botond Sandor Kirei, Angelo Farina, Ioana Sărăcuț, "Experimental Acoustic Evaluation of An Auditorium", Advances in Acoustics and Vibration, ISSN: 1687-6261 (Print), ISSN: 1687-627X (Online), Volume 2012, Article ID 868247, 8 pages, 2012.                              | Pardo-Quiles D., Rodríguez-Rodríguez I., Rodríguez J.-V., Design of Optimal Sound Absorbers Using Acoustic Diffusers for Multipurpose Auditoriums, (2024) Acoustics, 6 (1), pp. 219 - 239, DOI: 10.3390/acoustics6010012<br>BDI: Scopus                                                                    | 5                  | 0.80    |
| 3   |                                                                                                                                                                                                                                                                                                             | Umbarkar A.S., Nandanwar D.V., Chimankar O.P. , Preliminary Archaeoacoustic Study of Kanheri Caves in Mumbai (Maharashtra, India) (2022) Sound and Vibration, 56 (2), pp. 193 - 203, DOI: 10.32604/sv.2022.015322<br>BDI: Scopus                                                                           | 5                  | 0.80    |
| 4   |                                                                                                                                                                                                                                                                                                             | Alsarayefi S., Jalics K. , Anticipation of damage presence in a fibre reinforced polymer plate through damping behaviour, (2021) Engineering Solid Mechanics, 9 (3), pp. 263 - 270, DOI: 10.5267/j.esm.2021.3.004                                                                                          | 5                  | 0.80    |
| 5   |                                                                                                                                                                                                                                                                                                             | Ogab M., Razali S.N.A.M., Didane D.H., Developing statistical acoustics model for lecture auditorium using application of reverberation time, (2019) International Journal of Engineering and Advanced Technology, 9 (1), pp. 6251 - 6256, DOI: 10.35940/ijeat.A2024.109119                                | 5                  | 0.80    |

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| 6  |                                                                                                                                                                                                                                                                                                           | Pangau C.M.F., Prawirasasra M.S., Ismardi A., Measurement of Acoustic Performance of an Auditorium (2018) Journal of Physics: Conference Series, 1075 (1), art. no. 012042, DOI: 10.1088/1742-6596/1075/1/012042                                                                                   | 5 | 0.80 |
| 7  | Topa, Marina Dana; Toma, Norbert; Kirei, Botond Sandor; Homana, Ioana; Neag, Marius; De Mey, Gilber; "Comparison of different experimental methods for the assessment of the room's acoustics", ACOUSTICAL PHYSICS, Vol. 57, Is. 2, pp.: 199-207, MAR 2011                                                | Ali-MacLachlan I., Hall S., Crawford J. / TOWARDS AN INTERNET OF SOUNDS BASED METHOD FOR ACOUSTIC PROFILING OF ROOMS AND AUDIO SPACES / (2024) Proceedings of the Institute of Acoustics, 46, ISSN 14786095, ISBN 978-190691350-2                                                                  | 6 | 0.67 |
| 8  | A. Grăjdeanu, C. Răducan, C. Plesa, B. S. Kirei and M. Neag, "Comparison of four design environments employed to analyze a switched-capacitor DC-DC converter," 2016 12th IEEE International Symposium on Electronics and Telecommunications (ISETC), 2016, pp. 190-193, doi: 10.1109/ISETC.2016.7781088. | Ansari D.K., Giovanni C., Amin S.U., Baschiroto A., Python and SIMETRIX/SIMPLIS based automated platform for the DC-DC Converter with current mode control, (2024) 2024 39th Conference on Design of Circuits and Integrated Systems, DCIS 2024, DOI: 10.1109/DCIS62603.2024.10769148              | 5 | 0.80 |
| 9  | B.S. Kirei et al., Power and Area Estimation of Discrete Filters in CMOS Integrated Circuits/2019 Signal Processing: Algorithms, Architectures, Arrangements, and Applications (SPA), Poznan, Poland, 2019, pp. 67-70                                                                                     | Govindaraj V., Dhanasekar S., Ahmed L.J., Bruntha P.M., Abinaya M., Naveenkumar R., Regression Analysis Based Circuit Power Estimation Technique, (2023) 2023 International Conference on Evolutionary Algorithms and Soft Computing Techniques, EASCT 2023, DOI: 10.1109/EASCT59475.2023.10393157 | 3 | 1.33 |
| 10 |                                                                                                                                                                                                                                                                                                           | Govindaraj V., Babu B.S., Ezhilazhagan C. Back propagation neural network based power estimation method for CMOS VLSI circuits (2022) AIP Conference Proceedings, 2385, art. no. 050011, DOI: 10.1063/5.0070733                                                                                    | 3 | 1.33 |
| 11 | Codau et al., Design and Validation of a Wireless Bridge for Intra-Spacecraft Communications /44th International Conference on Telecommunications and Signal Processing (TSP), ELECTR NETWORK, JUL 26-28, 2021/doi:10.1109/TSP52935.2021.9522609                                                          | Murariu T., Pastrav A., Tripon C., Morari C., Puschita E., Zarbo L.P., A roadmap for building quantum key distribution devices (2022) Proceedings - RoEduNet IEEE International Conference, 2022-September, DOI: 10.1109/RoEduNet57163.2022.9921102                                                | 9 | 0.44 |

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| <a href="#">ref.1</a> |
| <a href="#">ref.9</a> |
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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| 12 | V.I.M. Chereja et al., Power Dissipation Estimation of CMOS Digital Circuits at the Gate Level in VHDL / 2018 International Symposium on Electronics and Telecommunications (ISETC), Timisoara, 2018, pp. 1-4, doi: 10.1109/ISETC.2018.8583957                                                                  | Pineda E.B.T., Fault Localization of Temperature-Dependent Digital Circuit Functional Failures Utilizing the Scan-based Bench Testing and the Dynamic Analysis by Laser Simulation (DALs), (2022) Proceedings of the International Symposium on the Physical and Failure Analysis of Integrated Circuits, IPFA, 2022-July,DOI: 10.1109/IPFA55383.2022.9915743 | 5 | 0.80 |
| 13 | Cristian Conțan, Botond Sandor Kirei, Marina Dana Topa, "Error-dependent step-size control of adaptive normalized least-mean-square filters used for nonlinear acoustic echo cancellation", Signal, Image and Video Processing, Springer, ISSN 1863-1703, Vol. 10, no 3, pp. 511-518, 2016, WOS:000370722800013 | Manikandan R., Ramkumar S., Prabhakaran M., Area and Energy Efficient Method Using AI for Noise Cancellation in Ear Phones (2023) International Conference on Self Sustainable Artificial Intelligence Systems, ICSSAS 2023 - Proceedings, pp. 117 - 121, DOI: 10.1109/ICSSAS57918.2023.10331813                                                              | 3 | 1.33 |
| 14 | B. S. Kirei, V.-I.-M. Chereja, S. Hinteá, M. D. Topa, "PAELib: A VHDL Library for Area and Power Dissipation Estimation of CMOS Logic Circuits," Advances in Electrical and Computer Engineering, vol.19, no.1, pp.9-16, 2019, doi:10.4316/AECE.2019.01002                                                      | Froemmer J., Gawayed Y., Bannow N., Kunz W., Grimm C., Schneider K., Area estimation framework for digital hardware design using machine learning, (2020) MBMV 2020: Methoden und Beschreibungssprachen zur Modellierung und Verifikation von Schaltungen und Systemen - GMM/ITG/GI-Workshop, pp. 8 - 17                                                      | 4 | 1.00 |
| 15 | Contan, Cristian; Kirei, Botond Sandor; Topa, Marina Dana, "Modified NLMF adaptation of Volterra filters used for nonlinear acoustic echo cancellation", SIGNAL PROCESSING, Volume: 93, Issue: 5, pp 1152-1161, MAY 2013                                                                                        | Chang W.-D., A MODIFIED VOLTERRA DIGITAL FILTER FOR TIME SERIES MODELING VIA PSO ALGORITHM, (2023) International Journal of Electrical Engineering, 30 (1), pp. 1 - 8, DOI: 10.6329/CIEE.202306_30(1).0001                                                                                                                                                    | 3 | 1.33 |
| 16 |                                                                                                                                                                                                                                                                                                                 | Burra S., Kar A., Adaptive Kernelized Subfilter Nonlinear AEC Algorithm (2021) 2021 Advanced Communication Technologies and Signal Processing, ACTS 2021, DOI: 10.1109/ACTS53447.2021.9708184                                                                                                                                                                 | 3 | 1.33 |
| 17 |                                                                                                                                                                                                                                                                                                                 | Liu J.-C., Quan H.-D., Zhao H.-Z., Tang Y.-X., Digital self-interference cancellation based on iterative variable step-size LMS, (2016) Tien Tzu Hsueh Pao/Acta Electronica Sinica, 44 (7), pp. 1530 - 1538, DOI: 10.3969/j.issn.0372-2112.2016.07.002                                                                                                        | 3 | 1.33 |
| 18 |                                                                                                                                                                                                                                                                                                                 | Comminiello, M. Scarpiniti, L. A. Azpicueta-Ruiz, J. Arenas-García and A. Uncini, "Nonlinear Acoustic Echo Cancellation Based on Sparse Functional Link Representations," in IEEE/ACM Transactions on Audio, Speech, and Language Processing, vol. 22, no. 7, pp. 1172-1183, July 2014. BDI: IEEEXplore                                                       | 3 | 1.33 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| 19 | M. D. Topa, I. Muresan, B. S. Kirei, I. Homana, "Digital Adaptive Echo-Canceller for Room Acoustics Improvement," Advances in Electrical and Computer Engineering, vol.10, no.1, pp.50-53, 2010, doi:10.4316/AECE.2010.01008 | U. Mahbub, P. P. Acharjee and S. A. Fattah, "A time domain approach of acoustic echo cancellation based on particle swarm optimization," Electrical and Computer Engineering (ICECE), 2010 International Conference on, Dhaka, 2010, pp. 518-521. doi: 10.1109/ICELCE.2010.5700743, BDI: IEEEExplore                       | 4 | 1.00 |
| 20 |                                                                                                                                                                                                                              | U. Mahbub, P. P. Acharjee and S. A. Fattah, "An acoustic echo cancellation scheme based on particle swarm optimization algorithm," TENCON 2010 - 2010 IEEE Region 10 Conference, Fukuoka, 2010, pp. 759-762. doi: 10.1109/TENCON.2010.5686595, BDI: IEEEExplore                                                            | 4 | 1.00 |
| 21 | Homana, I.; Topa, M.D.; Kirei, B.S., "Echo cancelling using adaptive algorithms," 15th International Symposium for Design and Technology of Electronics Packages, (SIITME) 2009, pp.317,321, 17-20 Sept. 2009                | Nasar M.A., Comparison of Adaptive Algorithms for the Application of Echo Cancellation (2024) Proceedings of 9th International Conference on Science, Technology, Engineering and Mathematics: The Role of Emerging Technologies in Digital Transformation, ICONSTEM 2024, DOI: 10.1109/ICONSTEM60960.2024.10568642        | 3 | 1.33 |
| 22 |                                                                                                                                                                                                                              | Shi-jin Liu; Da-li Liu; Jing-quan Zhang; Yan-jun Zeng, "Extraction of fetal electrocardiogram using recursive least squares and normalized least mean squares algorithms," 2011 3rd International Conference on Advanced Computer Control (ICACC), pp.333,336, 18-20 Jan. 2011, BDI: Scopus                                | 3 | 1.33 |
| 23 |                                                                                                                                                                                                                              | El Mourabit, I.; Badri, A.; Sahel, A.; Baghdad, A., "Enhanced mobile positioning technique for UMTS users in both outdoor and Indoor environments," 2014 Third IEEE International Colloquium in Information Science and Technology (CIST), pp.335,339, 20-22 Oct. 2014, BDI: IEEEExplore                                   | 3 | 1.33 |
| 24 |                                                                                                                                                                                                                              | Ku, N.-Y., Hwang, S.-H., Chang, S.-C., Yeh, C.-Y. The dynamic LMS for line echo cancellation (2013) Applied Mechanics and Materials, 284-287, pp. 2941-2945., BDI: Scopus                                                                                                                                                  | 3 | 1.33 |
| 25 |                                                                                                                                                                                                                              | Dubey, S.K.; Rout, N.K. "FLMS algorithm for acoustic echo cancellation and its comparison with LMS", 1st International Conference on Recent Advances in Information Technology (RAIT), 2012 , pp. 852 - 856.                                                                                                               | 3 | 1.33 |
| 26 | Dornean, Irina; Topa, Marina; Kirei, Botond Sandor; Neag, Marius; "Sub-Band Adaptive Filtering for Acoustic Echo Cancellation", European Conference on Circuit Theory Design, Antalya, TURKEY, pp. 810-813, AUG 23-27, 2009  | Mohammad A.H., Soh A.C., Ismail N.F., Abdul Rahman R.Z., Mohd Radzi M.A., Improvement of LMS adaptive noise canceller using uniform Poly-phase digital filter bank, (2019) Indonesian Journal of Electrical Engineering and Computer Science, 17 (3), pp. 1258 - 1265, DOI: 10.11591/ijeecs.v17.i3.pp1258-1265 BDI: Scopus | 4 | 1.00 |

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| 27 |                                                                                                                                                                                                                                                         | McDonough, John, et al. "An information filter for voice prompt suppression." Signals, Systems and Computers (ASIOMAR), 2011 Conference Record of the Forty Fifth Asilomar Conference on. IEEE, 2011. BDI: IEEEExplore                                                                                                                                                        | 4 | 1.00 |
| 28 | Kirei, B. S.; Neag, M. G.; Topa, M. D., "Blind Frequency-Selective I/Q Mismatch Compensation Using Subband Processing", IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS II-EXPRESS BRIEFS, Vol: 59, Is: 5, pp 302-306, MAY 2012                               | Popescu, D.G.; Varga, M.; Bota, V., "Comparison between measured and computed values of the mean mutual information per coded bits in OFDM based wireless transmissions," Telecommunications and Signal Processing (TSP), 2013 36th International Conference on , vol., no., pp.380,384, 2-4 July 2013, BDI: IEEEExplore                                                      | 3 | 1.33 |
| 29 |                                                                                                                                                                                                                                                         | A Blind-ML Method for Frequency-Selective I/Q Mismatch Compensation in Low-IF Receivers<br>By: Ishaque, Aamir; Ascheid, Gerd, IEEE Wireless Communications and Networking Conference (WCNC), Shanghai, APR 07-10, 2013                                                                                                                                                        | 3 | 1.33 |
| 30 | Dornean, I., Topa, M., Kirei, B. S., & Szopos, E. (2007, November). System Identification With Least Mean Square Adaptive Algorithm,". In Interdisciplinarity In Engineering" Scientific International Conference.                                      | Dash, P. K., Sashank Shekhar Pujari, and Er Sahoo. "Design and implementation of single order LMS based adaptive system identification on altera based cyclone II FPGA." Communications and Signal Processing (ICCSP), 2014 International Conference on. IEEE, 2014., BDI: IEEEExplore                                                                                        | 4 | 1.00 |
| 31 |                                                                                                                                                                                                                                                         | Goel, Akshay, and Ankita Gupta. "Design of satellite payload filter emulator using hamming window." Medical Imaging, m-Health and Emerging Communication Systems (MedCom), 2014 International Conference on. IEEE, 2014., BDI: IEEEExplore                                                                                                                                    | 4 | 1.00 |
| 32 | Dornean, I.; Topa, M.; Kirei, B. S.; Oltean, G.; "HDL implementation of the variable step size N-LMS adaptive algorithm", IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2008), Cluj Napoca, ROMANIA, MAY 22-25, 2008 | Ning X.-L., Liu Z., Luo Y.-S., Sun C.-L., Fast convergence adaptive equalization algorithm for underwater acoustic channels, (2010) Xi Tong Gong Cheng Yu Dian Zi Ji Shu/Systems Engineering and Electronics, 32 (12), pp. 2524 - 2527, DOI: 10.3969/j.issn.1001-506X.2010.12.07 BDI: Scopus                                                                                  | 4 | 1.00 |
| 33 |                                                                                                                                                                                                                                                         | Qian, Rui, et al. "A low-cost echo cancellation algorithm in DTMB On-Channel Repeater." Signal Processing Systems (ICSPS), 2010 2nd International Conference on. Vol. 2. IEEE, 2010. BDI: Scopus                                                                                                                                                                              | 4 | 1.00 |
| 34 |                                                                                                                                                                                                                                                         | Low Power VLSI Implementation of Adaptive Noise Canceller Based on Least Mean Square Algorithm<br>By: Ramakrishna, Vakulabharanam; Kumar, Tipparti Anil<br>Edited by: AlDabass, D; Uthayopas, P; Sanguanpong, S; et al.<br>Conference: 4th International Conference on Intelligent Systems, Modelling and Simulation (ISMS) Location: Bangkok, THAILAND Date: JAN 29-31, 2013 | 4 |      |

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| 35 | Irina Dornean, Marina Țopa, Botond Sandor Kirei, "Digital Implementation of Artificial Reverberation Algorithms", Acta Technica Napocensis - Electronics and Telecommunications, ISSN 1221-6542, Volume 49, Number 4, pp.1-4, 2008.                                                                    | J. Orellana, W. Pauzhi and D. Cabrera, "Modification of acoustic signals in real time with parallel processing," 2015 CHILEAN Conference on Electrical, Electronics Engineering, Information and Communication Technologies (CHILECON), Santiago, 2015, pp. 345-350., BDI: IEEEExplore                          | 3 |  |
| 36 |                                                                                                                                                                                                                                                                                                        | Pushpalatha, G. S. "Spectrogram Study of Echo and Reverberation—A Novel Approach to Reduce Echo and Reverberation in Room Acoustics." Signal Processing and Information Technology. Springer Berlin Heidelberg, 2012. 210-213., BDI: Springerlink                                                               | 3 |  |
| 37 | Țopa, Marina Dana; Toma, Norbert; Kirei, Botond Sandor; Homana, Ioana; Neag, Marius; De Mey, Gilber; "Comparison of different experimental methods for the assessment of the room's acoustics", ACOUSTICAL PHYSICS, Vol. 57, Is. 2, pp.: 199-207, MAR 2011                                             | Cabrera D., Xun J., Guski M., Calculating Reverberation Time from Impulse Responses: A Comparison of Software Implementations, (2016) Acoustics Australia, 44 (2), pp. 369 - 378, DOI: 10.1007/s40857-016-0055-6<br>BDI: Scopus                                                                                 | 6 |  |
| 38 | Homana, Ioana; Țopa, Marina; Kirei, Botond Sandor; Contan, Cristian; "Adaptive Algorithms for Double-Talk Echo Cancelling", 9th International Symposium on Electronics and Telecommunications (ISETC), Timisoara, ROMANIA, NOV 11-12, 2010                                                             | Hamidia, Mahfoud, and Abderrahmane Amrouche. "Double-talk detection using the singular value decomposition for acoustic echo cancellation." Communications (ICC), 2013 IEEE International Conference on. IEEE, 2013., BDI: IEEEExplore                                                                          | 4 |  |
| 39 |                                                                                                                                                                                                                                                                                                        | Reyes, José Antonio Tavares, Enrique Escamilla Hernández, and JC Sánchez Garcia. "DSP-based oversampling adaptive noise canceller for background noise reduction for mobile phones." Electrical Communications and Computers (CONIELECOMP), 2012 22nd International Conference on. IEEE, 2012. BDI: IEEEExplore | 4 |  |
| 40 |                                                                                                                                                                                                                                                                                                        | Mischie, Septimiu. "A comparison of the convolutive model and real recording for using in acoustic echo cancellation." Recent Researches in Circuits, Systems, Multimedia and Automatic Control, ISBN: 978-1-61804-085-5 , pp. 220-225, 2012, BDI: ACM                                                          | 4 |  |
| 41 | Ioana Homănă, Marina Dana Țopa, Botond Sandor Kirei, "Semi-blind equalization using the Constant Modulus Algorithm", Proceedings of the 2010 IEEE International Conference on Automation, Quality and Testing (AQTR 2010), ISBN 978-1-4244-6722-8, pp. 299-302, Cluj-Napoca, Romania, May 28-30, 2010. | Kotte, Swathi, Geetha Chowdary Gannamaneni, and Kalyan Chakravarthy Talluri. "Performance analysis of conventional CMA and RLS in single carrier LTE uplink systems." 2011 International Conference on Graphic and Image Processing. International Society for Optics and Photonics, 2011., BDI: Scopus         | 3 |  |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| 42 | V. Popescu, B. S. Kirei, M. Țopa, C. Munteanu, "Analysis of Lossless Differential Microstrip Line", Proceedings of the 30th IEEE International Spring Seminar on Electronics Technology ISSE, ISBN 1-4244-1218-8, pp. 551-554, Cluj-Napoca, Romania, 9-13 May, 2007.                                                                           | Yao, Wei, et al. "Worst case timing jitter and amplitude noise in differential signaling." Quality of Electronic Design, 2009. ISQED 2009. Quality Electronic Design. IEEE, 2009. BDI: Scopus                                                                                                       | 4 |      |
| 43 | Cristian Conțan, Ioana Homăănă, Marina Țopa, Botond Sandor Kirei, "Nonlinear Acoustic System Identification using a Combination of Volterra and Power Filters", Proceedings of IEEE Symposium on Signals, Circuits and Systems (ISSCS), pp. 431-434, Iași, Romania, June 30-July 1, 2011.                                                      | Garg A., Jaiman P., An adaptive hybrid approach for echo cancellation in telephone system, (2017) Proceedings of the 2nd International Conference on Communication and Electronics Systems, ICCES 2017, 2018-January, pp. 337 - 340, DOI: 10.1109/CESYS.2017.8321293 BDI: Scopus                    | 4 |      |
| 44 | Cristian Conțan, Ioana Homăănă, Marina Țopa, Botond Sandor Kirei, "Nonlinear Acoustic System Identification using a Combination of Volterra and Power Filters", Proceedings of IEEE Symposium on Signals, Circuits and Systems (ISSCS), pp. 431-434, Iași, Romania, June 30-July 1, 2011.                                                      | Gupta, D. K., V. K. Gupta, and Mahesh Chandra. "Review Paper on Linear and Nonlinear Acoustic Echo Cancellation." Proceedings of the 3rd International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA) 2014. Springer International Publishing, 2015. BDI: Scopus | 4 | 1.00 |
| 45 | Botond Sandor Kirei, Marina Țopa, Irina Dornean, Albert Fazakas, "Novel Image Rejection Filter Based on Neural Networks", Proceedings of the 2008 International Conference on Knowledge-Bases Intelligent Information and Engineering Systems (KES 2008), ISBN 978-3-540-85567-5, vol. III, pp. 343-350, Zagreb, Croatia, September 3-5, 2008. | Wang, Yifan, et al. "System simulation of adaptive I/Q mismatch compensation method using SystemC-AMS." Ph. D. Research in Microelectronics and Electronics (PRIME), 2010 Conference on. IEEE, 2010., BDI:Scopus                                                                                    | 4 | 1.00 |

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| A3.2. Membru in colectivele de redactie sau comitete stiintifice al revistelor ISI, chair sau co-chair sau membru in comitele de organizare manifestari stiintifice <b>ISI</b> (punctaj unic pentru fiecare activitate; nu se considera calitatea de recenzor al unor articole individuale) |                                                                                                                                                                                          |           | Punctaj | Numar |
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|                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                          |           | 20.000  | 2     |
| Nr.                                                                                                                                                                                                                                                                                         | Descriere                                                                                                                                                                                | Perioada  |         |       |
| 1                                                                                                                                                                                                                                                                                           | Membru in comitetul stiintific a conferinței "International Conference on Telecommunications and Signal Processing (TSP)", July 3-4, 2012, Prague, Czech Republic, BDI: ISI, IEEEExplore | 2019-2023 | 10.00   |       |
| 2                                                                                                                                                                                                                                                                                           | Membru in comitetul stiintific a conferinței " International Semiconductor Conference (CAS) ", October 7-9, 2020, Sinaia, Romania, BDI: ISI, IEEEExplore                                 | 2020-2023 | 10.00   |       |

| A3.3. Membru in colectivele de redactie sau comitete stiintifice al revistelor BDI, chair sau co-chair sau membru in comitele de organizare manifestari stiintifice <b>BDI: Scopus, IEEE, Science Direct, Elsevier, Springerlink, ACM, DBLP, EURASIP</b> (punctaj unic pentru fiecare activitate; nu se considera calitatea de recenzor al unor articole individuale) |  |  | Punctaj | Numar |
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| Nr. | Descriere                                                                                                                 | Perioada  |      |  |
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| 1   | Membru in comitet stiintific al jurnalului ACTA TEHNICA NAPOCENSIS - Electronics and Telecommunications, recenzie 2 artic | 2016-2023 | 6.00 |  |

| A3.4. Premii in domeniu: <b>Academia Romana, ASTR, AOSR, premii internationale de prestigiu</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | Punctaj | Numar |
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| Nr.                                                                                             | Descriere                                                                                                                                                                                                                                                                                                                                                                                                                                                      | An   |         |       |
| 1                                                                                               | Premiul "Excellent Poster Award for Young Scientist" la conferinta internationala International Spring Seminar on Electronics 2007 (www.isse2007.org), organizat in Cluj-Napoca intre 9-13 Mai, sponsorizat de IEEE.                                                                                                                                                                                                                                           | 2011 | 15.00   |       |
| 2                                                                                               | Premiu câștigat în cadrul competiției „Premierea Cercetării” (PN-II-RU-PRECISI-2012-6) oferit de UEFISCDI.                                                                                                                                                                                                                                                                                                                                                     | 2012 | 15.00   |       |
| 3                                                                                               | Premiu câștigat în cadrul competiției „Premierea Cercetării” (PN-II-RU-PRECISI-2013-7-3373) oferit de UEFISCDI.                                                                                                                                                                                                                                                                                                                                                | 2013 | 15.00   |       |
| 4                                                                                               | Medalia de aur la Salonul Inovarii si Cercetarii, Galati, Romania, Premii acordate la Salonul Inovării și Cercetării UGAL INVENT, 09-10 Noiembrie 2023 pentru High throughput spacewire to – IEEE 802.11 bridge for on-board communications of space vehicles elaborat de Emanuel Dumitru Pușchiță, Sandor Botond Kirei, Tudor Palade, Andra Elena Iulia Păstrăv, Rareș Călin Buta, Cristian Codău, Adrian Călin Fărcaș, Universitatea Tehnică din Cluj-Napoca | 2023 | 15.00   |       |
|                                                                                                 | Diploma si Medalia de aur la Salonul International de inventii Inovatii "Traian Vuia", Timisoara, Romania, 15 -1 7 Iunie, 2023 pentru High throughput spacewire to – IEEE 802.11 bridge for on-board communications of space vehicles elaborat de Emanuel Dumitru Pușchiță, Sandor Botond Kirei, Tudor Palade, Andra Elena Iulia Păstrăv, Rareș Călin Buta, Cristian Codău, Adrian Călin Fărcaș, Universitatea Tehnică din Cluj-Napoca                         | 2023 | 15.00   |       |
|                                                                                                 | Diploma de excelenta si Medalia de aur la Salonul International al Cercetarii Stiintifice, Inovarii si Inventicii PRO INVENT, editia XXI, Cluj-Napoca pentru High throughput spacewire to – IEEE 802.11 bridge for on-board communications of space vehicles elaborat de Emanuel Dumitru Pușchiță, Sandor Botond Kirei, Tudor Palade, Andra Elena Iulia Păstrăv, Rareș Călin Buta, Cristian Codău, Adrian Călin Fărcaș, Universitatea Tehnică din Cluj-Napoca  | 2023 | 15.00   |       |
|                                                                                                 | Diploma de excelenta si Medalia de aur la Salonul International al Cercetarii Stiintifice, Inovarii si Inventicii PRO INVENT, editia XXI, Cluj-Napoca pentru High throughput spacewire to – IEEE 802.11 bridge for on-board communications of space vehicles elaborat de Emanuel Dumitru Pușchiță, Sandor Botond Kirei, Tudor Palade, Andra Elena Iulia Păstrăv, Rareș Călin Buta, Cristian Codău, Adrian Călin Fărcaș, Universitatea Tehnică din Cluj-Napoca  | 2023 | 15.00   |       |
|                                                                                                 | Diploma de onoare si medalie de aur la XXVII-th INTERNATIONAL EXHIBITION OF INVENTICS INVENTICA 2023, Iasi, Romania pentru High throughput spacewire to – IEEE 802.11 bridge for on-board communications of space vehicles elaborat de Emanuel Dumitru Pușchiță, Sandor Botond Kirei, Tudor Palade, Andra Elena Iulia Păstrăv, Rareș Călin Buta, Cristian Codău, Adrian Călin Fărcaș, Universitatea Tehnică din Cluj-Napoca                                    | 2023 | 15.00   |       |
|                                                                                                 | Diploma si Medalia de aur la International Exhihition INVENTCOR, 4th edition, 14-16.08.2023, Deva, Romania pentru High throughput spacewire to – IEEE 802.11 bridge for on-board communications of space vehicles elaborat de Emanuel Dumitru Pușchiță, Sandor Botond Kirei, Tudor Palade, Andra Elena Iulia Păstrăv, Rareș Călin Buta, Cristian Codău, Adrian Călin Fărcaș, Universitatea Tehnică din Cluj-Napoca                                             | 2023 | 15.00   |       |
|                                                                                                 | Diploma si Medalia de aur la manifestarea EUROINVENT (EUROPEAN EXHIBITION OF CREATIVITY ANO INNOVATION), 11-13 May 2023, Iasi Romania pentru High throughput spacewire to – IEEE 802.11 bridge for on-board communications of space vehicles elaborat de Emanuel Dumitru Pușchiță, Sandor Botond Kirei, Tudor Palade, Andra Elena Iulia Păstrăv, Rareș Călin Buta, Cristian Codău, Adrian Călin Fărcaș, Universitatea Tehnică din Cluj-Napoca                  | 2023 | 15.00   |       |

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