

LISTĂ DE LUCRĂRI

Teza doctorat

- 1 **Cercetări și Contribuții privind Proiectarea Orientată și Îmbunătățirea Performanțelor Sistemelor Robotizate de Sudare cu Arc Electric (Oriented Design and Performance Improvement of Robotic Arc Welding Systems)**
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Bursă post-doctorat

Tema de cercetare: Interfețe inteligente om-robot pentru programarea intuitivă a roboților industriali
Perioada bursei post-doctorale: mai 2014 - octombrie 2015
Instituția: Universitatea Tehnică din Cluj-Napoca

A. Cărți/ capitole publicate în edituri naționale recunoscute CNCSIS

- 1 **Mocan, B.**, Brad, S., Fulea, M., Murar, M., Stan, A., Timoftei, S., *Multidisciplinary Design of Industrial Robotic Automation Solutions - Practical Guide For Students* - Editura UTPress, ISBN 978-606-737-246-5, 240 pg., Cluj-Napoca, 2018.
- 2 **Mocan, B.**, Timoftei, S., Stan, A., Fulea, M., RobotStudio® - Simulation of industrial automation processes and offline programming of ABBs robots - Practical guide for students - Editura UTPress, ISBN 978-606-737-254-0, 140 pg., Cluj-Napoca, 2017.
- 3 **Mocan, B.**, Brad, S., Fulea, M., *Automatizarea și Robotizarea Fabricației Structurilor Sudate*, Editura UTPress, ISBN 978-606-737-052-2, 290 pg., Cluj-Napoca, 2015.
- 4 Fulea, M., Brad, S., **Mocan, B.**, *Evaluarea excelenței organizaționale*, Editura UTPress, ISBN 978-606-737-065-2, 174 pg., Cluj-Napoca, 2015.
- 5 Brad, S., Brad, E., **Mocan, B.**, Fulea, M., *Tools and Methods of Competitive Design in Robotics*, Editura UT Press, ISBN 978-606-737-067-6, 183 pg., Cluj-Napoca, 2015.
- 6 Fulea, M., Brad, S., **Mocan, B.**, Murar, M., *Ingineria Dezvoltării Competitive a Produselor și Serviciilor Inovative*, Editura UT Press, ISBN 978-606-737-066-9, 52 pg., Cluj-Napoca, 2015.
- 7 Blebea, I., **Mocan, B.**, Steopan A., *Fiabilitatea, Mentenabilitatea și Siguranța Sistemelor de Producție*, Editura UT Press, ISBN 978-973-662-842-9, 292 pg., Cluj-Napoca, 2013.

- 8 **Mocan, B.**, *Sisteme Robotizate de Sudare cu Arc Electric – Proiectarea orientată și îmbunătățirea performanțelor sistemelor robotizate de sudare cu arc electric*, Editura UT Press, ISBN 978-973-662-881-8, 308 pg., Cluj-Napoca, 2013.
- 9 Brad, S., **Mocan, B.**; Duca, A., Brad, E., *Robotizarea Asistată de Calculator a Fabricației. Fundamentele Utilizării Mediului Workspace de Simulare și Programare Off-Line a Sistemelor de Fabricație Robotizate*, Editura UT Press, ISBN 978-973-662-361-5, 213 pg., Cluj-Napoca, 2008.
- 10 Brad, S., Ciupan, C., Pop, L., **Mocan, B.**, Fulea, M., *Manualul de Bază al Managerului de Proiect în Ingineria și Managementul Inovației*, Ed. Economică, 700 pg., ISBN 973-709-265-1 / 978-973-709-265-6, București, 2006.
- 11 Brad, S., Brad, E., **Mocan, B.**, *Basic Tools of Competitive Design in Robotics – Student Guide for Practical Application*, Editura UT Press, ISBN 973-662-161-8, 112 pg., Cluj-Napoca, 2005.

A. Cărți/ capitole publicate în edituri internaționale recunoscute CNCSIS (ISI Book)

- 1 Steopan M., **Mocan B.**, Florin P., Bucur M., Ispas V. (2021) Design and Development of a Robotic Hexapod Platform for Educational Purposes. In: Lovasz EC., Maniu I., Doroftei I., Ivanescu M., Gruescu CM. (eds) *New Advances in Mechanisms, Mechanical Transmissions and Robotics. MTM&Robotics 2020. Mechanisms and Machine Science*, vol 88. Springer, Cham. https://doi.org/10.1007/978-3-030-60076-1_9
Print ISBN 978-3-030-60075-4; Online ISBN 978-3-030-60076-1; pp. 91-103.
- 2 **Mocan B.**, Fulea M., Murar M., Steopan M., Mocan M. (2021) Automatic Arterial Puncture Sensorial Device for Fast Arterial Blood Gas Sampling from Radial Artery During Covid-19 Pandemic. In: Lovasz EC., Maniu I., Doroftei I., Ivanescu M., Gruescu CM. (eds) *New Advances in Mechanisms, Mechanical Transmissions and Robotics. MTM&Robotics 2020. Mechanisms and Machine Science*, vol 88 Springer, Cham. https://doi.org/10.1007/978-3-030-60076-1_48
Print ISBN 978-3-030-55060-8; Online ISBN 978-3-030-55061-5; pp. 533-542.
- 3 Patcas R., **Mocan B.**, Fulea M., Murar M., Steopan M. (2020) Design and Development of a Mobile Robot Equipped with Perception Systems for Autonomous Navigation. In: Pislă D., Corves B., Vaida C. (eds) *New Trends in Mechanism and Machine Science. EuCoMeS 2020. Mechanisms and Machine Science*, vol 89. Springer, Cham. https://doi.org/10.1007/978-3-030-55061-5_10
Print ISBN 978-3-030-60075-4; Online ISBN 978-3-030-60076-1; pp. 78-85.

A1. Articole ISI în reviste in Q1 sau Q2 (Thomson Reuters)

- 1 Calborean, A., Macavei, S., **Mocan, B.** et al. Non-invasive laparoscopic detection of small tumors of the digestive tract using inductive sensors of proximity. *Sci Rep* **12**, 760 (2022). <https://doi.org/10.1038/s41598-022-04822-x>
ISSN: 2045-2322; Nature-Scientific Reports, IF 2021 4.380, Q1; CiteScore: 5.134, Q1)
- 2 **Mocan, B.**; Schonstein, C.; Neamtu, C.; Murar, M.; Fulea, M.; Comes, R.; Mocan, M. CardioVR-ReTone—Robotic Exoskeleton for Upper Limb Rehabilitation following Open Heart Surgery: Design, Modelling, and Control. *Symmetry* 2022, **14**, 81. <https://doi.org/10.3390/sym14010081>
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- 3 Mocan, M., Vlaicu, S.I., Farcaș, A.D., Feier, H., Dragan, S., and **Mocan, B.**, Cardiac Rehabilitation Early after Sternotomy Using New Assistive VR-Enhanced Robotic Exoskeleton—Study Protocol for a Randomised Controlled Trial, *Int. J. Environ. Res. Public Health* 2021, 18, no 22, 11922. <https://doi.org/10.3390/ijerph182211922>, 2021, EISSN 1660-4601 (IF 2021 3.390, Q1)
- 4 Bințișan, V., Calborean, A., Mocan, M., Macavei, S., Cordoș, A., Ciuce, C., Bințișan, A., Chira, R., Nagy, G., Surlin, V., Timofte, D., Nickel, F., Mueller, B., Dindelegan, G., Ciuce, C., Brad, S., Murar, M., **Mocan, B.**, New inductive proximity sensor platform for precise localization of small colorectal tumors, *Materials Science and Engineering: C - MATERIALS FOR BIOLOGICAL APPLICATIONS*, Volume 106, Article 110146, 2020, ISSN 0928-4931, (<https://doi.org/10.1016/j.msec.2019.110146>), (IF 2020 7.328, CiteScore 11.5, Q1)
- 5 Calborean, A., Macavei, S., Mocan, M., Ciuce, C., Cordos, A., Bintintan, A., Chira, R., Pestean, C., Pop, O., Barbu-Tudoran, L., Dindelegan, G., Surlin, V., Nickel, F., **Mocan, B.**, Bintintan, V., Laparoscopic compatible device incorporating inductive proximity sensors for precise detection of gastric and colorectal small tumors, *Surgical Oncology*, V. 35, pp. 504-514, (<https://doi.org/10.1016/j.suronc.2020.10.012>), December 2020, ISSN 0960-7404 (IF 2020 3.279, CiteScore 3.4, Q2)

A1. Articole ISI în reviste (Thomson Reuters)

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- 2 Fulea, M., Kis, M., Blagu, D., **Mocan, B.**, Artifact-Based Approach to Improve Internal Process Quality Using Interaction Design Principles, *Acta Technica Napocensis, Series: Applied Mathematics, Mechanics and Engineering*, Vol 64, No 4s (2021), pp. 697-706, December 2021; ISSN: 1221-5872.
- 3 **Mocan, B.**, Neamtu, C., Fulea, M., Murar, M., Comes, R., Jac, M., Feier, H., Mocan, M., CardioVR-ReTone – 14 DoFs Upper-Body Robotic Exoskeleton Designed to Support Cardiac Rehabilitation, *Acta Technica Napocensis, Series: Applied Mathematics, Mechanics and Engineering*, Vol 64, No 3 (2021), pp. 379-388, 2021; ISSN: 1221-5872.
- 4 **Mocan, B.**, Fulea, M., A.D., FĂRCAȘ, M., Mocan, Exoskeleton Robotic Systems Used as a Tool for Cardiac Rehabilitation, *Acta Technica Napocensis, Series: Applied Mathematics, Mechanics and Engineering*, Vol 62, No 3 (Sept. 2019), pp. 411-416, 2019; ISSN: 1221-5872; WOS:000489767000007.
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- 6 Mocan, M., **Mocan, B.**, Cardiac rehabilitation for older patients with cardiovascular pathology using robotic systems - A survey, *Balneo Research Journal*, ISSN: 2069-7597/eISSN: 2069-7619, Vol.10, No.1, February 2019, pp. 33-36, 2019 (DOI: 10.12680/balneo.2019.236)
- 7 Mocan, M., Chiorescu, R., Banc, O.N., **Mocan, B.**, Anton, F., Stoia, M., Farcas, A.D., Cardiac rehabilitation protocols outcome in frail patients undergoing transcatheter aortic valve implantation, *Balneo Research Journal*, ISSN: 2069-7597/eISSN: 2069-7619, Vol.9, No.4, December 2018, pp. 401-405, 2018 (DOI: 10.12680/balneo.2018.220)
- 8 **Mocan, B.**, Brad, S., Fulea, M., Murar, M., Brad, E., Safety Management Within a Robotic Manufacturing System Through Layout Design, *Acta Technica Napocensis, Series: Applied*

- Mathematics, Mechanics and Engineering, Vol 61, No 3 Special Issue (September 2018), pp. 137-146, 2018; WOS:000451702200018
- 9 Fulea, M., Brad, S., **Mocan, B.**, Murar, M., Framework for Building a Service Vision Statement, Acta Technica Napocensis, Series: Applied Mathematics, Mechanics and Engineering, Vol 61, No 3 Special Issue, (September 2018), pp. 75-84, 2018, WOS:000451702200011
 - 10 Bartha, L., Fulea, M., **Mocan, B.**, EXPRESS-CAR-HIRE - A NEW CONCEPT FOR ELECTRIC VEHICLE HIRING WITHIN AIRPORT TERMINALS, Environmental Engineering and Management Journal, February 2018, Vol.17, No. 2, 273-283, ISI journal, (IF 1.186, Q4), 2018; eISSN: 1843-3707; WOS:000427084800004
 - 11 **B. Mocan**, V. V. Bintintan, S. Brad, C. Ciuce, M. Mocan, M. Murar, Development of a Robotic Driven Handheld Laparoscopic Instrument for Non-invasive Intraoperative Detection of Small Endoluminal Digestive Tumors, New Trends in Medical and Service Robots - Human Centered Analysis, Control and Design, Springer International Publishing, V. 39, pp 197-210, 2016.
 - 12 Brad, S., **Mocan, B.**, Brad, E., Fulea, M., Environmentally Sustainable Economic Growth, Amfiteatru Economic, 18(42), pp. 446-461, (IF 0,564), 2016
 - 13 **Mocan, B.**, Fulea, M., Olaru, M. and Buchmüller, M., From Intuitive Programming of Robotic Systems to Business Sustainability of Manufacturing SMEs. Amfiteatru Economic, 18(41), pp. 215-231, (IF 0,564), 2016.
 - 14 Fulea M., Tanaselea, C., **Mocan, B.**, Murar, M., Algorithm for Automatically Generating the Robot Program for a Reconfigurable Palletising Application, Acta Technica Napocensis, Series: Applied Mathematics, Mechanics and Engineering, vol. 58, Issue IV, pp. 579-584, 2015.
 - 15 Olaru, M., Dinu V., Keppler, T., **Mocan, B.**, Mateiu, A., STUDY ON THE OPEN INNOVATION PRACTICES IN ROMANIAN SMEs, Amfiteatru Economic, 17 (Special No. 9), ISSN: 1582 – 9146, pp. 1129-1141, (IF 0,564), 2015

A2. Articole ISI proceedings (conferințe)

- 1 **Mocan, B.**; Osan, C.; Fulea, M.; Chis, I.A.; Timoftei, S.; Sarb, A., An Integrated Model for Solving Cell Formation Problem and Robot Scheduling Using Timed Petri Nets, 2016 International Conference on Production Research - Africa, Europe and the Middle East (ICPR-AEM) / 4th International Conference on Quality and Innovation in Engineering and Management (QIEM), July 25-30, 2016, Cluj-Napoca, Romania, pp. 91-96, ISBN: 978-606-737-180-2, (2016).
 - 2 Mocan, M.; Rahaian, R.; **Mocan, B.**; Blaga, S.N.; Multi-Marker Evaluation of the Cardio-Metabolic Risk, 85th Congress of the European-Atherosclerosis-Society (EAS), Prague, CZECH REPUBLIC, APRIL 23-26, V. 263, pp. E201-E202, ISSN: 0021-9150, 2017 (DOI: 10.1016/j.atherosclerosis.2017.06.650)
 - 3 Fulea, M.; **Mocan, B.**; Brad, E.; Homorodean, D., Designing the Usability of an Innovation Management Assessment Software Platform, 2016 International Conference on Production Research - Africa, Europe and the Middle East (ICPR-AEM) / 4th International Conference on Quality and Innovation in Engineering and Management (QIEM), July 25-30, 2016, Cluj-Napoca, Romania, pp. 340-345, ISBN: 978-606-737-180-2, (2016).
 - 4 Brad, S., **Mocan, B.**, Brad, E., Fulea, M., TRIZ to Support Blue-design of Products, Procedia CIRP, Volume 39, pp. 125-131, 2016.
- Mocan, B.**, Fulea, M., Brad, S. Designing a Multimodal Human-Robot Interaction Interface for an Industrial Robot, Proceedings of 24th International Conference on Robotics in Alpe-Adria-Danube

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- Region (RAAD), *ADVANCES IN ROBOT DESIGN AND INTELLIGENT CONTROL*, V. 371, pp. 255-263, SPRINGER-VERLAG BERLIN, HEIDELBERGER PLATZ 3, D-14197 BERLIN, GERMANY, 2016 (DOI: 10.1007/978-3-319-21290-6_26)
- 5 **Mocan, B.**, Fulea, M., Olaru, M., Buchmüller, M., *Paradigm Shift in Robotic Systems Programming for Increasing Business Sustainability*, BASIQ 2015 International Conference "New Trends in Sustainable Business and Consumption", Bucharest, ISSN 2457-483X ISSN-L 2457-483X, pp. 338-345, 2015
 - 6 Brad, S., **Mocan, B.**, Brad, E., Fulea, M., *Vectors of Innovation for Balancing Economic Growth and Sustainable Development*, BASIQ 2015 International Conference "New Trends in Sustainable Business and Consumption", Bucharest, ISSN 2457-483X ISSN-L 2457-483X, pp. 457-464, 2015
 - 7 Olaru, M., Dinu V., Keppler, T., **Mocan, B.**, Mateiu, A., *Study on the Adoption of Open Innovation Principles by the Romanian SMEs*, BASIQ 2015 International Conference "New Trends in Sustainable Business and Consumption", Bucharest, ISSN 2457-483X ISSN-L 2457-483X, pp. 400-407, 2015
 - 8 **Mocan, B.**, Fulea, M., Brad, E. and Brad, S., *State-of-the-Art and Proposals on Reducing Energy Consumption in the Case of Industrial Robotic Systems*, Proceedings of the 2014 International Conference on Production Research – Regional Conference Africa, Europe and the Middle East; 3rd International Conference on Quality and Innovation in Engineering and Management, Cluj-Napoca, Romania, 1-5 July, ISBN: 978-973-662-978-5, pp. 328-334, 2014.
 - 9 Fulea, M., Ilies, A., Brad, S., Brad, E., **Mocan, B.**, Murar, M., *An Innovative Approach on Prioritizing Internal Improvement Projects within SMEs*, Proceedings of the 2014 International Conference on Production Research – Regional Conference Africa, Europe and the Middle East; 3rd International Conference on Quality and Innovation in Engineering and Management, Cluj-Napoca, Romania, 1-5 July, ISBN: 978-973-662-978-5, pp. 200-206, 2014.
 - 10 Brad, S., Fulea M., **Mocan, B.**, Brad, E., *Systematic Innovation for Improving Competitiveness of a Master Study Program*, Proceedings of International Conference on Engineering & Business Education, Innovation and Entrepreneurship, ISBN 978-606-12-0369-7; ISSN 1843-6730, Indexată ISI, pp. 365-368, 18-21 October 2012.
 - 11 Fulea, M., **Mocan, B.**, Brad, S., *A Formal Approach of Managing Information Related to an Integrated Management System*, Proceedings of The 1st International Conference on Quality and Innovation in Engineering and Management, ISBN 978-973-662-614-2, Indexată ISI, pp. 81-84, 2011.
 - 12 Fulea, M., **Mocan, B.**, Brad, S., *An Ontology-Based Approach of Guiding the Innovation Process Within SMEs*, Proceedings of The 1st International Conference on Quality and Innovation in Engineering and Management , ISBN 978-973-662-614-2, Indexată ISI, pp. 281-284, 2011.
 - 13 **Mocan, B.**, Fulea, M., Brad, S., *Reliability Assessment of Lean Manufacturing Systems*, Proceedings of The 1st International Conference on Quality and Innovation in Engineering and Management , ISBN 978-973-662-614-2, , Indexată ISI, pp. 127-130, 2011.
 - 14 Brad, S., Brad, E., **Mocan, B.**, *Bringing the Edge of Competitiveness into Engineering Design Education: the UTCN Experience*, Proceedings of the Balkan Region Conference on Engineering and Business Education & International Conference on Engineering and Business Education, ISBN 978-973-739-848-2; ISSN 1843-6730, Indexată ISI, pp. 363-368, 15th-17th October 2009.
 - 15 Brad, S., Fulea, M., **Mocan, B.**, Duca, A., Brad, E., *Software Platform for Supporting Open Innovation*, Int. Conf. AQTR2008, Cluj-Napoca, ISBN 978-1-4244-2576-1, pp. 224-229, (<http://ieeexplore.ieee.org/xpl>), Indexată ISI și IEEE Xplore, 2008.

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B. Articole BDI

- 1 Brad, S., **Mocan, B.**, Brad, E., Mocan, M., Economic development of peripheral/lagging zones through smart innovation, *Int. J. Transitions and Innovation Systems*, Vol. 4, No. 3/4, pp. 201-220, 2016
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- 2 **Mocan, B.**, Bintintan, V.V, Mocan, M., Bintintan, A., Innovative Design of a Laparoscopic Probe for Non-Invasive Intraoperative Detection of Small Endoluminal Digestive Tumours, *Robotica & Management*, Vol. 20, No. 2/2015, pp. 49-54, ISSN 1453 2069, Indexată IndexCopernicus, December 2015
- 3 **Mocan B.**, Fulea M., Brad S., Designing a Multimodal Human-Robot Interaction Interface for an Industrial Robot, *Advances in Robot Design and Intelligent Control - Proceedings of the 24th International Conference on Robotics in Alpe-Adria-Danube Region*, Springer Link, ISBN 978-3-319-21290-6, Volume 371 of the series *Advances in Intelligent Systems and Computing*, pp 255-263, 2015
- 4 Fulea M., Popescu S., Brad E., **Mocan B.**, Murar M., A Literature Survey On Reconfigurable Industrial Robotic Work Cells, *Applied Mechanics and Materials - Mechatronics and Robotics*, Vol. 762, Trans Tech Publications; ISBN-13: 978-3-03835-444-4, pp. 233-242, 2015
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- 6 **Mocan B.**, Fulea M., Brad S., Framework for Developing a Multimodal Programming Interface Used on Industrial Robots, *Robotica & Management*, Vol. 19, No. 2/2014, pp. 29-33, ISSN 1453 2069, Indexată IndexCopernicus, December 2014
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- 9 Brad S., Fulea M., Brad E., **Mocan B.**, Smart deployment of demonstrators into successful commercial solutions, *Proceedings of the 24th CIRP Design Conference*, Milan, Italy, March 14th - 16th, pp. 165-175, 2014.
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- 11 Fulea, M., Andrei, S., Brad S., **Mocan, B.**, Improvement of an Issue Notification for Manufacturing Processes, *Proceedings of the 19th International Conference The Knowledge-Based Organization – Applied Technical Science and Advanced Military Technologies*, ISSN 1843-6722, 13th-15th Iunie, pp. 250-255, 2013.

- 12 **Mocan, B.**, Fulea M., Brad, S., Reliability Assessment of Robotic Welding Cell within Lean Manufacturing Systems, *Robotica & Management*, Vol. 17, No. 1/2012, pp. 25-31, ISSN 1453 2069, Indexată IndexCopernicus, Iunie 2012.
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- 16 Brad, S., Brad, E., **Mocan, B.**, Framework for eco-innovative design with application in low-voltage electric appliance industry, *International Journal of Environmental Technology and Management*, Vol. 14, Nos. 5/6, pp. 379-396, 2011.
- 17 **Mocan, B.**, Designing and Programming an Arc Welding Robotic System with RobotStudio, *Robotica & Management*, Vol. 16, No. 1, pp. 22-26, ISSN 1453 2069, Indexată IndexCopernicus, June 2011.
- 18 Brad, S., Chioreanu, A., Fulea, M., **Mocan, B.**, Brad, E., Reconfigurability Function Deployment in Software Development, *Informatica Economică* vol. 15, no. 2, pp. 130-141, 2011.
- 19 **Mocan, B.**, Fulea M., Offline Programming of Robotic Arc Welding Systems, *Acta Technica Napocensis, Series: Applied Mathematics and Mechanics*, vol. 1, Issue 54, pp. 173-178, 2011.
- 20 Brad, S.; Brad, E.; **Mocan, B.**, Concurrent Approach for Multiple Eco-function Design, *Proceedings of the 17th CIRP International Conference on Life Cycle Engineering Fundamental Theories, Sustainable Manufacturing: Application Technologies and Future Development* Hefei, China, May, pp. 236-241, 2010.
- 21 **Mocan B.**, Brad S., Mada S., A Case Study a DFAFD – Centered Approach for Designing Robotic Assembly Cells, *Acta Technica Napocensis, Series: Applied Mathematics and Mechanics*, Vol. 1, Issue 53, pp. 111-116, 2010.
- 22 Brad, S., Fulea, M., Brad, E., **Mocan, B.**, Systematic Integration of Innovation in Process Improvement Projects Using the Enhanced Sigma-TRIZ Algorithm and Its Effective Use by Means of a Knowledge Management Software Platform, *Informatica Economică Journal* Vol. 13, no. 4, Decembrie 2009, ISSN 1453-1305 EISSN 1842-8088, Indexata in BDI – ICAAP (http://www.icaap.org/list_journal.php), pp. 75-79, decembrie 2009.
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B. Articole publicate în volumele unor manifestări științifice internaționale recunoscute din țară și din străinătate

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