

FIȘA DE VERIFICARE

Numele și prenumele: BISTRIAN DIANA-ALINA

Criterii: Abilitare

Universitatea Politehnica Timișoara

Facultatea de Inginerie Hunedoara

Conform cu Anexa nr. 1., Ordinul 6129/20.12.2016, COMISIA DE MATEMATICĂ

| Conditii minimale Abilitare | Realizat |
|-----------------------------|----------|
| $S \geq 5$ | 11,804 |
| $S_recent \geq 2,5$ | 5,549 |
| $C \geq 12$ | 186 |

Diana-Alina BISTRIAN

Articole publicate în reviste ISI cu maximul factorilor SRI (scorul relativ de influență) din ultimele 5 liste ISI Thomson mai mare sau egal cu 0.5

| Nr. crt. | Articol; referința bibliografică | Publicat în ultimii 7 ani (2016-2022) | Anul publicării | s_i | n_i | s_i/n_i | S_recent | SRI 2018 | SRI 2019 | SRI 2020 | SRI 2021 | SRI 2022 |
|----------|---|---------------------------------------|-----------------|-------|-----|---------|----------|--------------|--------------|----------|----------|----------|
| 1 | Bistriean D.A. , Mathematical and numerical treatment of instabilities of non-axisymmetric confined vortices under the Dirichlet boundary conditions, APPLIED MATHEMATICAL MODELLING, ISSN 0307-904X, Volume: 37 Issue: 6 Pages: 3993-4006, 2013 DOI:10.1016/j.apm.2012.09.019 WOS:000316706300029 | nu | 2013 | 2,138 | 1 | 2,138 | 0 | 1,919 | 2,138 | 2 | 1,808 | 1,919 |
| 2 | Bistriean D.A. , Parabolized Navier-Stokes model for study the interaction between roughness structures and concentrated vortices, PHYSICS OF FLUIDS, ISSN 1070-6631, Volume: 25 Issue: 10, Article Number: 104103, 2013 DOI:10.1063/1.4823746 WOS:000326642800031 | nu | 2013 | 1,878 | 1 | 1,878 | 0 | 1,878 | 1,803 | 1,537 | 1,606 | 1,579 |

Diana-Alina BISTRIAN

| Nr. crt. | Articol; referința bibliografică | Publicat în ultimii 7 ani (2016-2022) | Anul publicării | s_i | n_i | s_i/n_i | S_rec ent | SRI 2018 | SRI 2019 | SRI 2020 | SRI 2021 | SRI 2022 |
|----------|---|---------------------------------------|-----------------|-------|-----|---------|-----------|-------------|--------------|----------|----------|----------|
| 3 | Bistriean D.A. , A solution of the parabolized Navier-Stokes stability model in discrete space by two-directional differential quadrature and application to swirl intense flows, COMPUTERS & MATHEMATICS WITH APPLICATIONS, ISSN 0898-1221, Volume: 68 Issue: 3 Pages: 197-211, 2014 DOI: 10.1016/j.camwa.2014.05.017 WOS:000340316100011 | nu | 2014 | 1,334 | 1 | 1,334 | 0 | 1,22 | 1,334 | 1,312 | 1,219 | 1,232 |
| 4 | Bistriean D.A. , Navon I.M., An improved algorithm for the shallow water equations model reduction: Dynamic Mode Decomposition vs POD, INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, ISSN 0271-2091, Volume 78, Issue 9, pages 552–580, 2015 DOI: 10.1002/flid.4029 WOS:000356309900002 | nu | 2015 | 1,810 | 2 | 0,905 | 0 | 1,81 | 1,537 | 1,417 | 1,349 | 1,198 |
| 5 | Bistriean D.A. , Susan-Resiga R.F., Weighted proper orthogonal decomposition of the swirling flow exiting the hydraulic turbine runner, APPLIED MATHEMATICAL MODELLING, ISSN 0307-904X, Volume 40 Issue 5-6, Pages: 4057–4078, 2016 DOI: 10.1016/j.apm.2015.11.015 WOS:000371839700043 | da | 2016 | 2,138 | 2 | 1,069 | 1,069 | 1,919 | 2,138 | 2 | 1,808 | 1,919 |

Diana-Alina BISTRIAN

| Nr. crt. | Articol; referința bibliografică | Publicat în ultimii 7 ani (2016-2022) | Anul publicării | s_i | n_i | s_i/n_i | S_rec ent | SRI 2018 | SRI 2019 | SRI 2020 | SRI 2021 | SRI 2022 |
|----------|--|---------------------------------------|-----------------|-------|-----|---------|-----------|-------------|--------------|----------|----------|----------|
| 6 | Alekseev A.K., Bistriean D.A. , Bondarev A.E., Navon I.M., On Linear and Nonlinear Aspects of Dynamic Mode Decomposition, INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, ISSN 0271-2091, Volume: 82, Issue: 6, Pages: 348-371, 2016 DOI: 10.1002/nme.4533 WOS:000323652600002 | da | 2016 | 1,810 | 4 | 0,453 | 0,453 | 1,81 | 1,537 | 1,417 | 1,349 | 1,198 |
| 7 | Bistriean D.A. , Navon I.M., The method of dynamic mode decomposition in shallow water and a swirling flow problem, INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, ISSN 0271-2091, Volume: 83, Issue: 1, Pages: 73-89, 2017 DOI: 10.1002/fld.4257 WOS:000389330000004 | da | 2017 | 1,810 | 2 | 0,905 | 0,905 | 1,81 | 1,537 | 1,417 | 1,349 | 1,198 |
| 8 | Bistriean D.A. , Navon I.M., Randomized Dynamic Mode Decomposition for Non-Intrusive Reduced Order Modelling, INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING, ISSN 0029-5981, Volume: 112, Issue: 1, Page:3-25, 2017 DOI: 10.1002/nme.5499 WOS:000410678300001 | da | 2017 | 3,099 | 2 | 1,550 | 1,550 | 3,05 | 3,099 | 2,517 | 1,942 | 1,912 |

Diana-Alina BISTRIAN

| Nr. crt. | Articol; referința bibliografică | Publicat în ultimii 7 ani (2016-2022) | Anul publicării | s_i | n_i | s_i/n_i | S_rec ent | SRI 2018 | SRI 2019 | SRI 2020 | SRI 2021 | SRI 2022 |
|----------|---|---------------------------------------|-----------------|-------|-----|---------|-----------|--------------|----------|----------|--------------|----------|
| 9 | Bistriean D.A. , Navon I.M., Efficiency of randomised dynamic mode decomposition for reduced order modelling, INTERNATIONAL JOURNAL OF COMPUTATIONAL FLUID DYNAMICS, ISSN: 1061-8562, Volume: 32, Issue: 2-3, Page: 88-103, 2018 DOI: 10.1080/10618562.2018.1511049 WOS:000445076500004 | da | 2018 | 1,078 | 2 | 0,539 | 0,539 | 1,078 | 0,732 | 0,851 | 0,953 | 0,911 |
| 10 | Xiao D., Heaney C. E., Fang F., Mottet L., Hu R., Bistriean D.A. , Aristodemou E., Navon I. M., Pain C. C., A domain decomposition non-intrusive reduced order model for turbulent flows, COMPUTERS & FLUIDS, ISSN 0045-7930, Volume: 182, Page: 15-27, 2019 DOI: 10.1016/j.compfluid.2019.02.012 WOS:000466829400003 | da | 2019 | 1,852 | 9 | 0,206 | 0,206 | 1,722 | 1,809 | 1,821 | 1,852 | 1,745 |
| 11 | Ahmed S.E., San O., Bistriean D.A. , Navon I.M., Sampling and resolution characteristics in reduced order models of shallow water equations: Intrusive vs nonintrusive, INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, ISSN 0271-2091, Volume: 92 Issue: 8 Page: 992-1036, 2020 DOI: 10.1002/flid.4815 WOS:000517030700001 | da | 2020 | 1,810 | 4 | 0,453 | 0,453 | 1,81 | 1,537 | 1,417 | 1,349 | 1,198 |

Diana-Alina BISTRIAN

| Nr. crt. | Articol; referința bibliografică | Publicat în ultimii 7 ani (2016-2022) | Anul publicării | s_i | n_i | s_i/n_i | S_recent | SRI 2018 | SRI 2019 | SRI 2020 | SRI 2021 | SRI 2022 |
|----------|--|---------------------------------------|-----------------|-------|-----|---------|----------|--------------|----------|----------|----------|----------|
| 12 | Ahmed S.E., Dabaghian P.H., San O., Bistriean D.A. , Navon I.M., Dynamic mode decomposition with core sketch, PHYSICS OF FLUIDS, ISSN 1070-6631, Volume: 34, Issue: 6, Article Number: 066603, 2022 DOI: 10.1063/5.0095163 WOS: 000829927300004 | da | 2022 | 1,878 | 5 | 0,3756 | 0,3756 | 1,878 | 1,803 | 1,537 | 1,606 | 1,579 |

TOTAL: S = 11,804

S_recent = 5,549

Diana-Alina BISTRIAN

Citări provenind din articole publicate în reviste științifice care au maximul factorilor SRI mai mare sau egal cu 0.5 (din ultimele cinci liste ISI Thomson, indiferent de anul publicării)

| Nr. crt. | Articolul citat, referința bibliografică | Revista și articolul în care a fost citat | s_i |
|-----------------|---|--|---------------------------|
| 1. | Bistriean D.A. , Mathematical models and numerical algorithms for stability investigation of swirling hydrodynamic systems, Teza de doctorat, Seria 14 Nr.2, Editura POLITEHNICA, 2011, ISBN: 978-606-554-264-8 | Journal of the Brazilian Society of Mechanical Sciences and Engineering Dalir N., Nourazar S.S., On absolute linear instability analysis of plane Poiseuille flow by a semi-analytical treatment, Journal of the Brazilian Society of Mechanical Sciences and Engineering, Volume: 37, Issue: 2, Pages: 495-505, 2015 DOI: 10.1007/s40430-014-0187-2 | 0.691 (SRI iunie 2022) |
| 2. | Bistriean D.A. , Parabolized Navier-Stokes model for study the interaction between roughness structures and concentrated vortices, PHYSICS OF FLUIDS, ISSN 1070-6631, Volume: 25 Issue: 10, Article Number: 104103, 2013 DOI:10.1063/1.4823746 WOS:000326642800031 | European Journal of Mechanics - B/Fluids Meina Xiao, Hua-Shu Dou, Chuanyu Wu, Zuchao Zhu, Xifeng Zhao, Songying Chen, Hongli Chen, Yikun Wei, Analysis of vortex breakdown in an enclosed cylinder based on the energy gradient theory, European Journal of Mechanics - B/Fluids, Volume 71, Pages 66-76, 2018. ISSN 0997-7546 https://doi.org/10.1016/j.euromechflu.2018.03.013 . | 0,989 (SRI iunie 2021) |
| 3. | | Physics of Fluids F. Fraternalia, G. Nastrob, D. Tordellac, Wave focusing and related multiple dispersion transitions in plane Poiseuille flows, Physics of Fluids 33, 034101, 2021 https://doi.org/10.1063/5.0037825 | 1.878 (SRI iunie 2018) |
| 4. | Bistriean D.A. , A solution of the parabolized Navier-Stokes stability model in discrete space by two-directional differential quadrature and application to swirl intense flows, COMPUTERS & MATHEMATICS WITH APPLICATIONS, ISSN 0898-1221, Volume: 68 Issue: 3 Pages: 197-211, 2014 DOI: 10.1016/j.camwa.2014.05.017 WOS:000340316100011 | European Journal of Mechanics - B/Fluids Meina Xiao, Hua-Shu Dou, Chuanyu Wu, Zuchao Zhu, Xifeng Zhao, Songying Chen, Hongli Chen, Yikun Wei, Analysis of vortex breakdown in an enclosed cylinder based on the energy gradient theory, European Journal of Mechanics - B/Fluids, Volume 71, Pages 66-76, 2018. ISSN 0997-7546 https://doi.org/10.1016/j.euromechflu.2018.03.013 . | 0,989 (SRI iunie 2021) |
| 5. | Bistriean D.A. , Navon I.M., An improved algorithm for the shallow water equations model reduction: Dynamic Mode Decomposition vs POD, INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, ISSN 0271-2091, Volume 78, Issue 9, pages 552–580, 2015 DOI: 10.1002/flid.4029 WOS:000356309900002 | Progress in Aerospace Sciences Jiaqing Kou, Weiwei Zhang, Data-driven modeling for unsteady aerodynamics and aeroelasticity, Progress in Aerospace Sciences, Volume 125, 2021, 100725, ISSN 0376-0421, https://doi.org/10.1016/j.paerosci.2021.100725 . | 7,340 (SRI iunie 2022) |

Diana-Alina BISTRIAN

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| 6. | | Physics of Fluids S. Pawar, S. M. Rahman, H. Vaddireddy, O. San, A. Rasheed, P. Vedula, A deep learning enabler for nonintrusive reduced order modeling of fluid flows, <i>Physics of Fluids</i> 31, 085101, 2019; https://doi.org/10.1063/1.5113494 | 1.878 (SRI iunie 2018) |
| 7. | | Communications in Nonlinear Science and Numerical Simulation Omer San, Romit Maulik, Mansoor Ahmed, An artificial neural network framework for reduced order modeling of transient flows, <i>Communications in Nonlinear Science and Numerical Simulation</i> , Volume 77, 2019, Pages 271-287, ISSN 1007-5704, https://doi.org/10.1016/j.cnsns.2019.04.025 . | 1.654 (SRI iunie 2022) |
| 8. | | SIAM Journal on Scientific Computing X. Xie, M. Mohebujaman, L. G. Rebholz, T. Iliescu, Data-Driven Filtered Reduced Order Modeling of Fluid Flows, <i>SIAM Journal on Scientific Computing</i> Vol. 40, Iss. 3, 2018, https://doi.org/10.1137/17M1145136 | 2.407 (SRI iunie 2022) |
| 9. | | International Journal for Numerical Methods in Fluids D. Xiao, F. Fang, C. Pain, G. Hu, Non-intrusive reduced-order modelling of the Navier–Stokes equations based on RBF interpolation, <i>International Journal for Numerical Methods in Fluids</i> , Volume79, Issue11, Pages 580-595, https://doi.org/10.1002/flid.4066 | 1.810 (SRI iunie 2018) |
| 10. | | Building and Environment D. Xiao, C.E. Heaney, L. Mottet, F. Fang, W. Lin, I.M. Navon, Y. Guo, O.K. Matar, A.G. Robins, C.C. Pain, A reduced order model for turbulent flows in the urban environment using machine learning, <i>Building and Environment</i> , Volume 148, 2019, Pages 323-337, ISSN 0360-1323, https://doi.org/10.1016/j.buildenv.2018.10.035 . | 2.469 (SRI iunie 2022) |
| 11. | | Renewable Energy Ming Liu, Lei Tan, Shuliang Cao, Dynamic mode decomposition of cavitating flow around ALE 15 hydrofoil, <i>Renewable Energy</i> , Volume 139, 2019, Pages 214-227, ISSN 0960-1481, https://doi.org/10.1016/j.renene.2019.02.055 . | 1.643 (SRI iunie 2022) |
| 12. | | Physical Review E Sk. M. Rahman, S. Pawar, O. San, A. Rasheed, T. Iliescu, Nonintrusive reduced order modeling framework for quasigeostrophic turbulence, <i>Phys. Rev. E</i> Vol.100, Iss.5, 053306, 2019, https://doi.org/10.1103/PhysRevE.100.053306 | 1.122 (SRI iunie 2022) |
| 13. | | SIAM Journal on Scientific Computing Alessandro Alla, J. Nathan Kutz, Nonlinear Model Order Reduction via Dynamic Mode Decomposition, <i>SIAM Journal on Scientific Computing</i> Vol. 39, Iss. 5, 2017, https://doi.org/10.1137/16M1059308 | 2.407 (SRI iunie 2022) |
| 14. | | International Journal for Numerical Methods in Fluids M. Mohebujaman, L.G. Rebholz, T. Iliescu, Physically constrained data-driven correction for reduced-order modeling of fluid flows, <i>International Journal for Numerical Methods in Fluids</i> , Volume89, Issue3, Pages 103-122, https://doi.org/10.1002/flid.4684 | 1.810 (SRI iunie 2018) |

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| 15. | | Computer Methods in Applied Mechanics and Engineering Mehdi Dehghan, Mostafa Abbaszadeh, Proper orthogonal decomposition variational multiscale element free Galerkin (POD-VMEFG) meshless method for solving incompressible Navier–Stokes equation, Computer Methods in Applied Mechanics and Engineering, Volume 311, 2016, Pages 856-888, ISSN 0045-7825, https://doi.org/10.1016/j.cma.2016.09.008 . | 3.688 (SRI iunie 2022) |
| 16. | | Ocean Engineering Mostafa Abbaszadeh, Mehdi Dehghan, An upwind local radial basis functions-differential quadrature (RBFs-DQ) technique to simulate some models arising in water sciences, Ocean Engineering, Volume 197, 2020, 106844,ISSN 0029-8018, https://doi.org/10.1016/j.oceaneng.2019.106844 . | 1,978 (SRI iunie 2022) |
| 17. | | Physics of Fluids Jiaqing Kou, Weiwei Zhang, Dynamic mode decomposition with exogenous input for data-driven modeling of unsteady flows, Physics of Fluids 31, 057106, 2019, https://doi.org/10.1063/1.5093507 | 1.878 (SRI iunie 2018) |
| 18. | | Journal of Computational Physics Mehdi Dehghan, Mostafa Abbaszadeh, The use of proper orthogonal decomposition (POD) meshless RBF-FD technique to simulate the shallow water equations, Journal of Computational Physics, Volume 351, 2017, Pages 478-510, ISSN 0021-9991, https://doi.org/10.1016/j.jcp.2017.09.007 . | 2.248 (SRI iunie 2022) |
| 19. | | Journal of Computational Physics Sourav Dutta, Matthew W. Farthing, Emma Perracchione, Gaurav Savant, Mario Putti, A greedy non-intrusive reduced order model for shallow water equations, Journal of Computational Physics, Volume 439, 2021, 110378, ISSN 0021-9991, https://doi.org/10.1016/j.jcp.2021.110378 . | 2.248 (SRI iunie 2022) |
| 20. | | Computers & Fluids Mahmoud Gadalla, Marta Cianferra, Marco Tezzele, Giovanni Stabile, Andrea Mola, Gianluigi Rozza, On the comparison of LES data-driven reduced order approaches for hydroacoustic analysis, Computers & Fluids, Volume 216, 2021, 104819, ISSN 0045-7930, https://doi.org/10.1016/j.compfluid.2020.104819 . | 1.745 (SRI iunie 2022) |
| 21. | | Computer Methods in Applied Mechanics and Engineering Xuping Xie, David Wells, Zhu Wang, Traian Iliescu, Approximate deconvolution reduced order modeling, Computer Methods in Applied Mechanics and Engineering, Volume 313, 2017, Pages 512-534, ISSN 0045-7825, https://doi.org/10.1016/j.cma.2016.10.005 . | 3.688 (SRI iunie 2022) |
| 22. | | Physics of Fluids B. Karasözen, S. Yıldız, M. Uzunca, Energy preserving reduced-order modeling of the rotating thermal shallow water equation, Physics of Fluids 34, 056603, 2022; https://doi.org/10.1063/5.0091678 | 1.878 (SRI iunie 2018) |
| 23. | | Stochastic Environmental Research and Risk Assessment Mojtaba Forghani, Yizhou Qian, Jonghyun Lee, Matthew W. Farthing, Tyler Hesser, Peter K. Kitanidis, Eric F. Darve, Application of deep learning to large scale riverine flow velocity estimation, Stochastic Environmental Research and Risk Assessment volume 35, pages1069–1088, 2021, https://doi.org/10.1007/s00477-021-01988-0 | 1.457 (SRI iunie 2022) |

Diana-Alina BISTRAN

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| 24. | | Environmental Modelling & Software EnvironFrancesco Serafin, Olaf David, Jack R. Carlson, Timothy R. Green, Riccardo Rigon, Bridging technology transfer boundaries: Integrated cloud services deliver results of nonlinear process models as surrogate model ensembles, Environmental Modelling & Software, Volume 146, 2021, 105231, ISSN 1364-8152, https://doi.org/10.1016/j.envsoft.2021.105231 . Environmental Modelling & Software | 2.154 (SRI iunie 2022) |
| 25. | | Physics of Fluids Jiaxing Lu, Feng Wu, Xiaobing Liu, Baoshan Zhu, Shouqi Yuan, Jian Wang, Investigation of the mechanism of unsteady flow induced by cavitation at the tongue of a centrifugal pump based on the proper orthogonal decomposition method, Physics of Fluids 34, 105113, 2022; https://doi.org/10.1063/5.0113020 | 1.878 (SRI iunie 2018) |
| 26. | | Mathematical Methods in the Applied Sciences Bülent Karasözen, Süleyman Yıldız, Murat Uzunca, Structure preserving model order reduction of shallow water equations, Mathematical Methods in the Applied Sciences, Volume44, Issue1, 2021, Pages 476-492, https://doi.org/10.1002/mma.6751 | 0.805 (SRI iunie 2021) |
| 27. | | Alexandria Engineering Journal Mehdi Dehghan, Mostafa Abbaszadeh, The space-splitting idea combined with local radial basis function meshless approach to simulate conservation laws equations, Alexandria Engineering Journal, Volume 57, Issue 2, 2018, Pages 1137-1156, ISSN 1110-0168, https://doi.org/10.1016/j.aej.2017.02.024 . | 1.708 (SRI iunie 2022) |
| 28. | | Journal of Computational and Applied Mathematics Gabriel Dimitriu, Răzvan Ștefănescu, Ionel M. Navon, Comparative numerical analysis using reduced-order modeling strategies for nonlinear large-scale systems, Journal of Computational and Applied Mathematics, Volume 310, 2017, Pages 32-43, ISSN 0377-0427, https://doi.org/10.1016/j.cam.2016.07.002 . | 0.979 (SRI iunie 2022) |
| 29. | | Water Resources Research Wenchong Tian, Zhenliang Liao, Zhiyu Zhang, Hao Wu, Kunlun Xin, Flooding and Overflow Mitigation Using Deep Reinforcement Learning Based on Koopman Operator of Urban Drainage Systems, Volume58, Issue7, 2022, https://doi.org/10.1029/2021WR030939 | 3,495 (SRI iunie 2022) |
| 30. | | Journal of Engineering Mechanics Xihaier Luo, Ahsan Kareem, Dynamic Mode Decomposition of Random Pressure Fields over Bluff Bodies, Journal of Engineering Mechanics, 2020, https://doi.org/10.1061/(ASCE)EM.1943-7889.0001904 | 1.764 (SRI iunie 2022) |
| 31. | | International Journal for Numerical Methods in Fluids Dunhui Xiao, Zhi Lin, Fangxin Fang, Christopher C. Pain, Ionel M. Navon, Pablo Salinas, Ann Muggeridge, Non-intrusive reduced-order modeling for multiphase porous media flows using Smolyak sparse grids, International Journal for Numerical Methods in Fluids, Volume83, Issue2, 20 January 2017, Pages 205-219, https://doi.org/10.1002/flid.4263 | 1.810 (SRI iunie 2019) |
| 32. | | International Journal for Numerical Methods in Fluids Süleyman Yıldız, Pawan Goyal, Peter Benner, Bülent Karasözen, Learning reduced-order dynamics for parametrized shallow water equations from data, International Journal for Numerical Methods in Fluids, Volume93, Issue8, August 2021, Pages 2803-2821, https://doi.org/10.1002/flid.4998 | 1.810 (SRI iunie 2018) |

Diana-Alina BISTRIAN

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| 33. | | Journal of Computational and Applied Mathematics Xuping Xie, David Wells, Zhu Wang, Traian Iliescu, Numerical analysis of the Leray reduced order model, Journal of Computational and Applied Mathematics, Volume 328, 2018, Pages 12-29, ISSN 0377-0427, https://doi.org/10.1016/j.cam.2017.06.026 . | 0.979 (SRI iunie 2022) |
| 34. | | Journal of Process Control Qiugang Lu, Victor M. Zavala, Image-based model predictive control via dynamic mode decomposition, Journal of Process Control, Volume 104, 2021, Pages 146-157, ISSN 0959-1524, https://doi.org/10.1016/j.jprocont.2021.06.009 . | 1.858 (SRI iunie 2022) |
| 35. | | International Journal of Numerical Methods for Heat & Fluid Flow Mehdi Dehghan, Mostafa Abbaszadeh, Amirreza Khodadadian, Clemens Heitzinger, Galerkin proper orthogonal decomposition-reduced order method (POD-ROM) for solving generalized Swift-Hohenberg equation, International Journal of Numerical Methods for Heat & Fluid Flow, Vol. 29 No. 8, pp. 2642-2665, 2019, https://doi.org/10.1108/HFF-11-2018-0647 | 1.177 (SRI iunie 2022) |
| 36. | | Journal of Computational and Applied Mathematics Alexander Lozovskiy, Matthew Farthing, Chris Kees, Eduardo Gildin, POD-based model reduction for stabilized finite element approximations of shallow water flows, Journal of Computational and Applied Mathematics, Volume 302, 2016, Pages 50-70, ISSN 0377-0427, https://doi.org/10.1016/j.cam.2016.01.029 . | 0.979 (SRI iunie 2022) |
| 37. | | Computer Methods in Applied Mechanics and Engineering Alexander Lozovskiy, Matthew Farthing, Chris Kees, Evaluation of Galerkin and Petrov–Galerkin model reduction for finite element approximations of the shallow water equations, Computer Methods in Applied Mechanics and Engineering, Volume 318, 2017, Pages 537-571, ISSN 0045-7825, https://doi.org/10.1016/j.cma.2017.01.027 . | 3.688 (SRI iunie 2022) |
| 38. | | International Journal for Numerical Methods in Fluids Ahmed Attia, Răzvan Ștefănescu, Adrian Sandu, The reduced-order hybrid Monte Carlo sampling smoother, International Journal for Numerical Methods in Fluids, Volume 83, Issue 1, 10 January 2017, Pages 28-51, https://doi.org/10.1002/flid.4255 | 1.810 (SRI iunie 2018) |
| 39. | | Applied Thermal Engineering Dominik Pernsteiner, Alexander Schirrer, Lukas Kasper, René Hofmann, Stefan Jakobek, Data-based model reduction for phase change problems with convective heat transfer, Applied Thermal Engineering, Volume 184, 2021, 116228, ISSN 1359-4311, https://doi.org/10.1016/j.applthermaleng.2020.116228 . | 2.414 (SRI iunie 2022) |
| 40. | | International Journal for Numerical Methods in Fluids Z. Lin, D. Xiao, F. Fang, C. C. Pain, Ionel M. Navon, Non-intrusive reduced order modelling with least squares fitting on a sparse grid, International Journal for Numerical Methods in Fluids, Volume 83, Issue 3, 30 January 2017, Pages 291-306, https://doi.org/10.1002/flid.4268 | 1.810 (SRI iunie 2018) |
| 41. | | Advances in Computational Mathematics Birgul Koc, Muhammad Mohebujjaman, Changhong Mou, Traian Iliescu, Commutation error in reduced order modeling of fluid flows, Advances in Computational Mathematics volume 45, pages 2587–2621, 2019, https://doi.org/10.1007/s10444-019-09739-0 | 1.324 (SRI iunie 2022) |

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|-----|--|---|---------------------------|
| 42. | | Engineering Analysis with Boundary Elements Vahid Mohammadi, Mehdi Dehghan, A POD-RBF-FD scheme for simulating chemotaxis models on surfaces, Engineering Analysis with Boundary Elements, Volume 143, 2022, Pages 316-330, ISSN 0955-7997, https://doi.org/10.1016/j.enganabound.2022.06.024 . | 1.222 (SRI iunie 2022) |
| 43. | | SIAM Journal on Scientific Computing Reza Mohammadi Arani, Mehdi Dehghan, Mostafa Abbaszadeh, Proper Orthogonal Decomposition--Lattice Boltzmann Method: Simulating the Air Pollutant Problem in Street Canyon Areas, SIAM Journal on Scientific Computing Vol. 44, Iss. 4, 2022, https://doi.org/10.1137/21M1405733 | 2.407 (SRI iunie 2022) |
| 44. | | International Journal for Numerical Methods in Fluids Temiloluwa Atinuke Onimisi, Babatunde Oluwaseyi Lashore, Lateef T. Akanji, Jefferson Luis Melo de Almeida Gomes, A constrained proper orthogonal decomposition model for upscaling permeability, 2022, https://doi.org/10.1002/flid.5171 | 1.810 (SRI iunie 2018) |
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Diana-Alina BISTRIAN

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