

Списък на публикациите

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(доц. - ВАК, 2004 г.)

за участие в конкурс за професор
в област на висше образование 4. Природни науки, математика и
информатика; професионално направление 4.6. Информатика и компютърни
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нуждите на ИМИ,
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I. Хабилитационен труд – избрани научни публикации:

1. Kovacheva Zl. Covachev V., Periodic Solution of a Discretized Age-Dependent Model with a Dominant Age Class, Proceedings of The Ninth International Conference on Advanced Communications and Computation, INFOCOMP 2019, July 28, 2019 to August 02, 2019 - Nice, France, IARIA (the International Academy, Research and Industry Association), 2019, ISBN:978-1-61208-732-0, 23-28
<https://www.thinkmind.org/index.php?view=instance&instance=INFOCOMP+2019>
2. Kovacheva Zl., Some Aspects of Big Data Analytics for Cyber-Physical Systems (Statistical, Mathematical, Computational and Legal View), International Journal "Information models and Analyses", Vol. 8, 2019 (in print)
3. Covachev, V., Kovacheva, Z., Global exponential stability of the periodic solution of a discrete-time complex-valued Hopfield neural network with delays and impulses, INFOCOMP 2018: The Eighth International Conference on Advanced Communications and Computation, Barcelona, Spain, IARIA, 2018, ISBN:978-1-61208-655-2, 1-6
<https://www.thinkmind.org/index.php?view=instance&instance=INFOCOMP+2018>
4. Akça, H., Covachev, V., Kovacheva, Z., Existence theorem for a second-order impulsive functional-differential equation with a nonlocal condition. Journal of Nonlinear and Convex Analysis, Vol. 17, 6, Yokohama Publishers, 2016, ISSN:1880-5221 (online), 1345-4773 (printed), 1129-1136,
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5. Akça, H., Covachev, V., Kovacheva, Z., Global asymptotic stability of Cohen-Grossberg neural networks of neutral type. Journal of Mathematical Sciences, Vol. 205, No.6, Springer, 2015, ISSN:1573-8795 (online), 1072-3374 (printed), 719-732
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9. Kovacheva, Z., Application of Neural Networks to Data Mining. Sultan Qaboos University Journal for Science, Muscat, Oman, Vol. 12, Part 2, December 2007, ISSN:Online: 2414-536X, Print: 1027-524X, DOI:10.24200/squjs, 121-141
<https://journals.squ.edu.om/index.php/squjs/issue/view/39>
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10. Akça, H., Alassar, R., Covachev, V., Covacheva, Z., Continuous-time additive Hopfield-type neural networks with impulses. Journal of Mathematical Analysis and Applications, 290, 2, Elsevier, 2004, ISSN:0022-247X, 436-451.
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II. Други научни публикации:

11. Covacheva Zl., Covachev V., Mathematical Aspects of Neural Networks: Stability of Equilibrium Points, a chapter of an open access book "Advances in Networks, Security and Communications: Reviews", Vol. 2, Book Series, IFSA Publishing, Barcelona, Spain, 2019, ISBN: 978-84-09-14510-2, eISBN: 978-84-09-14509-6
<http://www.lulu.com/shop/sergey-yurish/advances-in-networks-security-and-communications-reviews-vol-2/paperback/product-24344965.html>
12. Akça, H., Al-Zahrani, E., Covachev, V., Covacheva, Z., Existence of periodic solutions for the discrete-time counterpart of a neutral-type cellular neural network with time-varying delays and impulses. International Journal of Applied Mathematics and Statistics, Vol. 57, No. 1, CESER Publications, 2018, ISSN:0973-7545 (online), 0973-1377 (printed), 154-166,
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13. Kovacheva Zl., Challenges and opportunities in Analytics of Big Data, 6th Abu Dhabi University Annual International Conference: Mathematical Sciences and It's Applications, December 19-21, 2017, Abu Dhabi, UAE, International Journal of Engineering and Future Technology, Vol.16, No.2, CESER publications, 2019, ISSN:2455-6432
14. Covachev, V., Covacheva, Z., Existence of periodic solutions for the discrete-time counterpart of a complex-valued Hopfield neural network with time-varying delays and impulses. 2018 International Joint Conference on Neural Networks (IJCNN 2018), IEEE, 2018, 8-13 July 2018, Rio de Janeiro, Brazil, ISBN:978-1-5090-6014-6, DOI:https://doi.org/10.1109/IJCNN.2018.8489198, 1727-1734

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15. Kovacheva, Z., Covachev, V., Mathematical aspects of application of neural networks to processes with delays. INFOCOMP 2017: The Seventh International Conference on Advanced Communications and Computation, 25-29 June 2017, Venice, Italy, IARIA, 2017, ISBN:978-1-61208-567-8, ISSN:2308-3484, 24-28
http://www.thinkmind.org/index.php?view=article&articleid=infocomp_2017_3_20_60025
16. Covachev, V., Kovacheva, Z., Existence and global exponential stability of a periodic solution of a Hopfield-type neural network with distributed delays and impulses, Proceedings of the 10-th International Conference on Nonlinear Analysis and Complex Analysis, Chitose, Japan, 2017, Yokohama Publishers, Inc., 2019, ISBN 978-4-946552-67-0, 25-39
17. Akça, H., Al-Zahrani, E., Covachev, V., Kovacheva, Z., Existence of periodic solutions for the discrete-time counterpart of a neutral-type cellular neural network with time-varying delays and impulses. AIP Conference Proceedings of ICNAAM 2016, Rhodes, Greece, Vol.1863, American Institute of Physics, 2017, ISBN:978-0-7354-1538-6, ISSN:0094-243X, DOI:10.1063/1.4992309., 140002-01-140002-04,
<http://aip.scitation.org/toc/apc/1863/1?expanded=1863>

SJR:0.165, инд. в WoS и Scopus

18. Kovacheva Zl., Naydenova, I., Kaloyanova, K., Markov, Kr., Big Data Mining: In-Database Oracle Data Mining over Hadoop. The Sixth Symposium on Advanced Computation and Information in Natural and Applied Sciences, 19-25 September 2016, Rhodes, Greece, AIP Conference Proceedings of ICNAAM 2016 Vol. 1863, 1, American Institute of Physics, 2017, ISBN:978-0-7354-1538-6, ISSN:0094-243X, DOI:10.1063/1.4992195, 040003-1-040003-4,
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19. Kaloyanova, K., Hristov, Tz., Naydenova, I., Kovacheva, Zl., Information Management Technologies for Big Data: A case of Oracle. AWICT 2017 Proceedings of the Second International Conference on Advanced Wireless Information, Data, and Communication Technologies, 13-14 November 2017, Paris, France, ACM New York, NY, USA, 2017, ISBN:978-1-4503-5310-6, DOI:10.1145/3231830.3231840
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20. Akça, H., Covachev, V., Kovacheva, Z., Second order semilinear impulsive differential equations with nonlocal conditions. BGSIAM'2014 Proceedings, 2015, ISSN:1313-3357, 44-52
21. Akça, H., Covachev, V., Kovacheva, Z., Existence of a mild solution to a second-order impulsive functional-differential equation with a nonlocal condition, Pliska Studia Mathematica, 25, IMI, 2015, ISSN:0204-9805, 101-110

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22. Akça, H., Covachev, V., Covacheva, Z., Global asymptotic stability of Cohen-Grossberg neural networks of neutral type, *Nonlinear Oscillations*, 17, 1, Springer, 2014, ISSN:1156-0059 (online), 1536-0059, 3-15
IF – 0.279 – Q4, SJR – 0.165 – Q4, инд. в WoS, Scopus

23. Akça, H., Covachev, V., Covacheva, Z., Improved stability estimates for impulsive delay reaction-diffusion Cohen-Grossberg neural networks via Hardy-Poincaré inequality. *Tatra Mountains Mathematical Publications*, 54, Walter de Gruyter, 2013, ISSN:1338 - 9750 (online), 1210 - 3195 (printed), DOI:10.2478/tmmp-2013-0001, 1-18
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24. Akça, H., Covachev, V., Covacheva, Z., Discrete-time counterparts of impulsive Hopfield neural networks with leakage delays, *International Conference on Differential & Difference Equations and Applications Ponta Delgada, Portugal, 2012*, Springer Proceedings in Mathematics & Statistics, 47, Springer, 2013, ISBN:978-1-4614-7333-6, 351-358
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25. Kovacheva Zl., Tendencies in Data Warehouse Scope Development, *Proceedings of Sixth International Conference Information Systems & Grid Technologies*, June 2012, Sofia, Bulgaria, St. Kliment Ohridski University Press, 2012, ISSN:1314-4855, 11-21
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27. Akça, H., Covachev, V., Covacheva, Z., Almost periodic solutions of impulsive Hopfield neural networks with periodic delays. *Eighth International Conference on Mathematical Problems in Engineering and Aerospace Sciences*, São Jose dos Campos, Brazil 2010, S. Sivasundaram (ed.), Cambridge Scientific Publishers, 2011, ISBN 978-1-908106-14-8 (paperback), ISBN 978-1-908106-18-6 (CD), 11-22
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<https://dkginfosystems.com/pdf/DKGInfoSysCSPCat2013.pdf>

28. Sherimon, P. C., Krishnan, R., Covacheva, Zl., Language Compatibility Issues in Multi-Party Web Services. *Proceedings of the Fourth International Conference Information Systems & GRID Technologies*, 28 - 29 May 2010, Sofia, Bulgaria, St. Kliment Ohridski University Press, 2010, ISBN:978-954-07-3168-1, 9-17
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ISI IF:0.256 - Q4, инд. в WoS, Zentralblatt, Scopus, MathSciNet (MR 2046483)

Общ брой публикации: 32

От тях:

- с IF: 4;
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Всички публикации в този списък са след придобиване на научното звание „доцент” от ВАК.

27 публикации са в международни издателства или в чужбина