СПИСЪК НА НАУЧНИТЕ ТРУДОВЕ
за участие в конкурса
(в хронологичен ред)

Всички публикации от настоящия списък са излезли от печат след придобиване на академичната длъжност „ст.н.с. II ст.“ (доцент). Тези от тях, които не са били включени в дисертацията за научна степен „доктор на математическите науки“, са отбелязани със * след поредния им номер.

1*. D. D. Bainov, V. Chr. Covachev, I. M. Stamova, *Stability under persistent disturbances of impulsive differential-difference equations of neutral type*, Journal of Mathematical Analysis and Applications, Vol. **187** (1994), No. 3, 790-808. IF=1.119

2. L. Jódar, R. J. Villanueva and V. Chr. Covachev, *Periodic solutions of neutral impulsive systems with a small delay*, in: Proceedings of the Fourth International Colloquium on Differential Equations. Plovdiv, Bulgaria, 18-23 August 1993. VSP. Utrecht, The Netherlands. Tokyo, Japan, 1994, 125-135.

3. D. D. Bainov and V. Chr. Covachev, *Periodic solutions of impulsive systems with a small delay*, Journal of Physics A: Mathematical and General, **27** (1994), 5551-5563. IF=1.687

4. D. D. Bainov and V. Chr. Covachev, *Periodic solutions of impulsive systems with delay viewed as a small parameter*, Rivista di Matematica Pura ed Applicata, **19** (1996), 9-25.

5. A. Boichuk, V. Covachev, *Periodic solutions of impulsive systems with a small delay min the critical case of second order*, Nonlinear Oscillations, **1** (1998), No. 1, 6-19. IF=0.279

6. Haydar Akça, Valéry Covachev, *Periodic solutions of impulsive systems with delay*, Functional Differential Equations **5** (1998), No. 3-4, 275-286.

7*. J. Stefanovski, K. Trenčevski and V. Covachev, *Cauchy problem and reduction of a system of partial differential equations*, Tamkang J. of Mathematics **30**, No. 4 (1999), 315-329.

8. Haydar Akça, Valéry Covachev, *Periodic solutions of impulsive systems with periodic delays*, Proceedings of the International Conference on Biomathematics Bioinformatics and Applications of Functional Differential - Difference Equations, Akdeniz University, July 14-19, 1999, pp. 65-76.

9. Valéry Covachev, *Periodicity of the population size of an age-dependent model with a dominant age class by means of impulsive perturbations*, Int. J. Appl. Math. and Comp. Sci., **10** (2000), No. 1, 147-155. IF=1.39

10. Alexander Boichuk, Valéry Covachev, *Weakly-nonlinear boundary value problems for impulsive systems with small concentrated delays of the argument*, Nonlinear Oscillations, **3** (2000), No. 1, 13-30. IF=0.279

11*. Jovan Stefanovski, Kostadin Trenčevski, Valéry Covachev, *Charpit system of partial differential equations with algebraic constraints*, J. Part. Diff. Equations, **13** (2000), 151-162.

12*. Valéry Covachev, Haydar Akça and Fuat Yeniçerioğlu, *Difference approximations for impulsive differential equations*, Applied Mathematics and Computation, **121** (2001), No. 2-3, 383-390. IF=1.6

13*. Haydar Akça, Abdelkader Boucherif, Valéry Covachev, *Impulsive functional differential equations with nonlocal conditions*, International Journal of Mathematics and Mathematical Sciences, Vol. **29** (2002), no. 5, 251-256.
14. Valéry Covachev, *Almost periodic solutions of impulsive systems with periodic time-dependent perturbed delays*, Functional Differential Equations, Vol. **9** (2002), No. 1-2, 91-108.
15. Valéry Covachev, Haydar Akça and Eada Ahmed Al-Zahrani, *Periodic solutions of neutral impulsive systems with periodic time-dependent perturbed delays*, Functional Differential Equations, **10** (2003), No. 3-4, 441-461.
16. Valéry Covachev, Zlatinka Covacheva, Haydar Akça, Eada Ahmed Al-Zahrani, *Almost periodic solutions of neutral impulsive systems with periodic time-dependent perturbed delays*, Central European Journal of Mathematics, **1** (2003), No. 3, 292-314. IF=0.519
17. Haydar Akça, Rajai Alassar, Valéry Covachev, Zlatinka Covacheva and Eada Al-Zahrani, *Continuous-time additive Hopfield-type neural networks with impulses*, Journal of Mathematical Analysis and Applications, **290** (2004), No. 2, 436-451. IF=1.119
18. Haydar Akça, Rajai Alassar, Valéry Covachev and Zlatinka Covacheva, *Discrete counterparts of continuous-time additive Hopfield-type neural networks with impulses*, Dynamic Systems and Applications, **13** (2004), No. 1, 77-92. IF=0.375
19*. H. Akça, V. Covachev and E. Al-Zahrani, *On existence of solutions of semilinear impulsive functional differential equations with nonlocal conditions*, Recent Advances in Operator Theory, Operator Algebras, and Their Applications, 1-11, Oper. Theory Adv. Appl., **153**, Birkhäuser, Basel, 2005.
20*. Haydar Akça, Eada Ahmed Al-Zahrani, Valéry Covachev, *Asymptotic behavior of discrete solution of impulsive logistic equation*, 2004 Conference on Diff. Eqns. and Appl. in Math. Biology, Nanaimo, BC, Canada, Electron. J. Diff. Eqns., Conf. 12, 2005, pp. 1-8.
21. Haydar Akça, Rajai Alassar, Valéry Covachev, H. Ali Yurtsever, *Discrete-time impulsive Hopfield neural networks with finite distributed delays*, Computer Assisted Mechanics and Engineering Sciences, **14** (2007), No. 2, 145-158.
22. Sannay Mohamad, Haydar Akça, Valéry Covachev, *Discrete-time Cohen-Grossberg neural networks with transmission delays and impulses*, Tatra Mountains Mathematical Publications, **43** (2009), 145-161.
23. Haydar Akça, Valéry Covachev and Kumud Singh Altmayer, *Exponential stability of neural networks with time-varying delays and impulses*, in: The Sixth International Symposium on Neural Networks (ISNN 2009), Hongwei Wang, Yi Shen, Tingwen Huang, Zhigang Zeng (Eds.), Advances in Intelligent and Soft Computing **56**, Springer-Verlag, Berlin, Heidelberg, 2009, pp. 153-163.
24. H. Akça, V. Covachev, Z. Covacheva and S. Mohamad, *Global exponential periodicity for the discrete analogue of an impulsive Hopfield neural network with finite distributed delays*, Functional Differential Equations, **16** (2009), No. 1, 53-72.
25*. Haydar Akça and Valéry Covachev, *Spatial discretization of an impulsive Cohen-Grossberg neural network with time-varying and distributed delays and reaction-diffusion terms*, Analele Ştiinţifice ale Universităţii "Ovidius" Constanţa, Seria Matematică, **17** (2009), No. 3, 15-26.

26. Haydar Akça, Valéry Covachev, *Impulsive Cohen-Grossberg neural networks with S-type distributed delays*, Tatra Mountains Mathematical Publications, **48** (2011), 1-13.
27. Valéry Covachev, Haydar Akça, and Makhtar Sarr, *Discrete-time counterparts of impulsive Cohen-Grossberg neural networks of neutral type*, Neural, Parallel and Scientific Computations, **19** (2011), 345-360.
28. Haydar Akça, Valéry Covachev and Zlatinka Covacheva, *Discrete-time counterparts of impulsive Hopfield neural networks with leakage delays*, International Conference on Differential & Difference Equations and Applications (Ponta Delgada, Portugal, 2011), Differential and Difference Equations with Applications, S. Pinelas, M. Chipot and Z. Došla (eds.), Springer Proceedings in Mathematics & Statistics **47**, Springer Science+Business Media, New York, 2013, pp. 335-342.
29. Haydar Akça, Valéry Covachev and Zlatinka Covacheva, *Improved stability estimates for impulsive delay reaction-diffusion Cohen-Grossberg neural networks via Hardy-Poincaré inequality*, Tatra Mountains Mathematical Publications, **54** (2013), 1-18.
30. Haydar Akça, Valéry Covachev and Zlatinka Covacheva, Global asymptotic stability of Cohen-Grossberg neural networks of neutral type, Nonlinear Oscillations, **17** (2014), No. 1, 3-15. IF=0.279

Приведените по-горе импакт-фактори са взети през м. ноември 2014 г.