Kashchenko Sergey Alexandrovich

P.G. Demidov Yaroslavl State University, first pro-rector, head of the Department of Mathematical Modeling, leading researcher

E-mail: [kasch@uniyar.ac.ru](mailto:kasch@uniyar.ac.ru)

Tel: +7 (4852) 79-77-89

Kashchenko Sergey Alexandrovich - Doctor of Physics and Mathematics, professor, first pro-rector of P.G. Demidov Yaroslavl State University.

Kashchenko Sergey Alexandrovich was born on 14, March 1953 in the city of Yaroslavl. He graduated from P.G. Demidov Yaroslavl State University, Mathematics Faculty in 1975 and started working at our university as a lecturer. In 1976, he defended a Ph.D. thesis, and in 1989, he became Doctor of Physics and Mathematics. Since 1991, he has been professor, head of the Department of Mathematical Modeling of P.G. Demidov Yaroslavl State University.

Kashchenko S.A. is a specialist in the area of nonlocal dynamics. The results obtained by him are the contribution into the theory of irregular oscillations of wide classes of systems with distributed parameters. He developed new methods of analysis of relaxation processes in nonlinear systems with aftereffect, the method of normalization of systems with partial derivatives. The results obtained by him were the basis for solving a number of important applied problems of radiophysics, laser physics, medicine, mathematical ecology. Sergey Alexandrovich is the author of more than 200 articles and 3 monographs, he prepared 6 candidates and 2 doctors of sciences.

Kashchenko S.A. is a full member of the International Informatization Academy and the Russian Academy of Natural Sciences, a number of mathematical societies, the RF president’s grants winner of 1994-1996. In 1998, Kashchenko S.A. became the winner of the competition "The Best Scientist of P.G. Demidov Yaroslavl State University in Natural Sciences" and the winner of the regional competition for the best research work in natural sciences, and in 1999, he became Soros professor. In 2001, Kashchenko S.A., as one of composite authors of the monograph "Risk Management" became the laureate and was given the medal of the All-Russian Exhibition Center. Honorary worker of the RF higher professional education (2002). Since 2000 Kashchenko S.A. had been working as the sciences and innovations pro-rector, and since 2005 he has been the first pro-rector of the university.

The Main Publications

1. Kashchenko S. A. A study of the stability of solutions of linear parabolic equations with nearly constant coefficients and small diffusion // Journal of Soviet Mathematics. 1992. Vol. 60, no. 6. P. 1742–1764.

2. Kashchenko S. A. Models of Wave Memory. Cham : Springer International Publishing, 2015. 267 p. (Lecture Notes in Morphogenesis).

3. Grigorieva E. V., Kashchenko S. A. Asymptotic Representation of Relaxation Oscillations in Lasers. Cham : Springer International Publishing, 2017. 230 p. (Understanding Complex Systems).

4. Glyzin S. D., Kashchenko S. A., Tolbey A. O. Waves Interactions in a Modified Fermi–Pasta–Ulam Model // New Trends in Nonlinear Dynamics : Abstracts (International Conference “New Trends in Nonlinear Dynamics”, Yaroslavl, Russia, Oct. 5–7, 2017). YSU, Steklov Math. Inst. Yaroslavl : YSU, 2017. P. 89–91.

5. Kashchenko S. A. Families of normalized equations in the problem of dislocations in a solid // Book of Abstracts of International Conference-School Dynamics, Bifurcation and Chaos 2017 (DBC IV, Nizhny Novgorod, July 3–8, 2017). Nizhny Novgorod : Lobachevsky University, 2017. P. 14.. 6.GrigorievaE.V.,KashchenkoS.A.DiscreteModelsofSpikinginClassBLaserswithVariableDelayedFeedback//AIP Conference Proceedings : International Conference of Numerical Analysis and Applied Mathematics. Vol.1863 (ICNAAM 2016, Rhodes, Greece, Sept. 19–25, 2016) / ed. by T. Simos, C. Tsitouras. EAS. AIP Publishing,2017. P. 390003.

7.KaschenkoS.A.,MayorovV.V.Adaptativeeducationofringneuronalstructures//Proceedings:5thInternational Specialist Workshop “Nonlinear Dynamics of Electronic Systems” (NDES’97, Moscow, Russia, June 26–27, 1997). RAS, IEEE. P. 135–141.

8. Grigorieva E. V., Kaschenko S. A. Fast switching periodical orbits in laser diode with external feedback // Proceedings of the Workshop on Nonlinear Dynamics of Electronic Systems (NDES’97, Moscow, Russia, June 26–27,1997). RAS, IEEE. P. 47–51.

9. Kaschenko S. A., Mögel A., Schwarz W. Analysis and Simulation of Transmission-Line based Chaotic Signal Generators // Proceedings of the 15th IMACS World Congress on Scientific. Computation, Modelling and Applied Mathematics : in 6 vols. Vol. 5, Systems engineering (IMACS 1997, Berlin, Aug. 24–29, 1997) / ed. by A. Sydow.

International Association for Mathematics, Computers in Simulation. Berlin, 1997. P. 543–548.

10. Kaschenko S. A., Mayorov V. V., Myshkin I. Y. Model of a system synchronizating large oscillations in ring neuronal large structures // Proceedings of the IEEE International Workshop on Cellular Neural Networks and their Applications (CNNA’98, London, Apr. 14–17, 1998). IEEE. P. 83–87.

11. Kaschenko S. A., Mögel A., Schwarz W. Analysis of chaotic dynamics of first order equations with piecewise constant delaying feedback // Proceedings of the 6th nternational Specialist Workshop on Nonlinear Dynamics of Electronic Systems (NDES’98,Budapest,Hungary,July16–18,1998) /ed.byG.Kolumbán.TechnicalUniversity of Budapest, IEEE. Budapest : Technical University of Budapest, 1998. P. 165–168.