


## Personal Details

<b>Name:</b> Aleksandr	
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<b>Current position</b> Dr. Sc., Professor. Head of Information Technologies and Systems Department National metallurgical academy of Ukraine (NMetAU, Dnipro).	
<b>Professional background</b>	
<b>Research interests</b>	
<b>(Computer Science, Intelligent Systems Modeling)</b>	
Scientific interests in field of the theory of adaptive identification and neuro-fuzzy control of nonlinear dynamical systems, network technologies; mathematical simulation of technological processes and data mining, the fractal material science and applied synergetic.	
<b>Scientific activities</b>	
Deputy chief-editor of scientific journals "System technologies", "Adaptive automatic control system", "Modern problems of metallurgy", member of the editorial boards of several scientific journals and magazines. Scientific Director of the Center of Information Technologies NMetAU. Chairman of the specialized council for the defending the PhD and Dr.Sc. theses: D 08.084.01 specialty - mathematical modeling and computational methods. The head of the scientific seminar "Fractals and Applied Synergetics", co-chairman of the regional scientific seminar Pridneprovskiy Scientific Center of the National Academy of Sciences of Ukraine "Modern problems of control and modeling of complex systems". Member of the organizational and program committees of several international scientific conferences: "Materials of Electronic Technology and Modern Information Technologies" (MEMIT), "Intelligent Decision Support Systems and applied aspects of information technology" (IDSAIT), "Mathematical and software of intellectual systems" (MSIS), etc.	
<b>Main publications</b>	
<ol style="list-style-type: none"> <li>1. Mikhalyov A. I. Adaptive-search methods and algorithms of optimization and identification of dynamic systems. - Kyiv: UMK Min.VO, 1992. - 68 p.</li> <li>2. Robotic technological complexes in metallurgy / A. I. Mikhalyov, E. P. Bobrikov, Ye. V. Zaitseva // Chapter 9 in the book. "Robotics" ed. by E. P. Popov. - M.: Mashinostroenie, 1984. - C. 244 - 264.</li> <li>3. Bodyanskiy Ye.V., Mikhalyov A. I., Pliss I. P. Adaptive detection of discords in facilities management using artificial neural networks.–Dnepropetrovsk: System technology, 2000.–140 p.</li> <li>4. Bodyanskiy Ye. V., Kucherenko Ye. I., Mikhalyov A. I. Neuro-fuzzy Petri nets for modeling of complex systems. – Dnepropetrovsk: System technology, 2005. – 311 p.</li> <li>5. Mikhalyov A. I. Digital data processing: From by Fourier to Wavelets. – Dnepropetrovsk: System technologies, 2007. – 200 p.</li> <li>6. Mikhalyov A. I. Parameter optimization of Ferroalloy production using the methods of fuzzy inference // Mikhalyov A. I., Lysaya N.V., Lysiy D. A., Gladkikh V. A., Lysenko V. F. – Dnepropetrovsk: System technology, 2008. – 130 p.</li> <li>7. Hybrid neuro-fuzzy model and multi-agent technology in complex systems /Ye. V. Bodyanskiy, Ye.I. Kucherenko, V.Ye. Kucherenko, A. I. Mikhalyov, V. A. Filatov //Under the editorship of E. V. Bodyansky. – Dnepropetrovsk: System technology, 2008. – 403 p.</li> <li>8. Mikhalyov A. I., Kramarenko V. V. Designing of automated information systems. –Textbook. -</li> </ol>	



Part 1&2.—Dniprodzerzhynsk, 2011. — 264 p.(Part 1)/260 p. (Part 2).

9. Bodyanskiy Ye.V. Kucherenko Y.I., Mikhalyov A. I., Filatov V. A., Gasik M. M., Kuzin, V. S. Methods of computational intelligence in control systems of technological processes Ferroalloy manufacturing/ Monograph. - Dnipropetrovsk: NMetAU- IPC System technologies, 2011. - 420 p.

10. Mikhalyov A. I., Alpatov A. P., Baklan I. V. Structural synthesis of projects management systems. Textbook /under the editorship of A. I. Mikhalyov. – Dnepropetrovsk: NMetAU- IPC System technologies, 2013. – 144 p.

11. Stenin O. A., Mikhalyov A. I., K. Melkumyan Yu. Automated operator training ergatic systems. – K.: NTUU "KPI", 2013. -180 p.

12. Intelligent control of technological processes (Ferroalloy manufacturing). Monograph /Bodyansky Ye. V., Kucherenko Y. I., Mikhalyov A. I., Filatov V. A., Gasik M. M., Kuzin, V. S. //under. edited by A. I. Mikhalyov. – Dnepropetrovsk: NMetAU- IPC System technologies, 2013.- 213 p.

13. Mikhalyov A. I., Vinokurova E. A., Sotnik S. L. Computer methods of the intellectual data processing: a tutorial. – Dnepropetrovsk: NMetAU-IPC System technologies, 2014. – 210 p.

#### **Awards**

Laureate of State prize of Ukraine in the field of science and technology (2014).

“For Scientific Achievements” (2012).

"Excellence in Education of Ukraine" (1999).

