

Curriculum Vitae

Full name Mikhail Tatur
Academic titles Doctor of Technical Sciences, Professor
Current position Professor, Department of Electronic Computing
Machines, Belarusian State University of
Informatics and Radioelectronics
Postal address P.Brovki Str. 6, Minsk 220013 Belarus
Telephone, email +375 17 2938564, tatur@bsuir.by
Date, place of birth 1959, Minsk, Belarus
Working languages Russian, English
ResearchGate www.researchgate.net/profile/Mikhail_Tatur



FIELD OF EXPERTISE

Data mining, hardware and software development of complex intelligent systems, image processing, pattern recognition, semantic knowledge processing, parallel and intelligent computing, fuzzy control, mobile robotics

EDUCATION

2012 Professor
2011 Doctor of Technical Sciences degree on “Parallel specific processors design”
1988 PhD degree on technical diagnostics of computers
1981 Higher education diploma, Military Academy of the Republic of Belarus

PROFESSIONAL CAREER

1997-present Lecturer, Assoc. Prof., Professor, Department of Electronic Computing
Machines, Belarusian State University of Informatics and Radioelectronics
1981-1997 Lecturer, Military Academy of the Republic of Belarus

TEACHING AND R&D ACTIVITIES. PROJECTS

Currently he is teaching courses on “Computer-Aided Design”, “Computer Diagnostics”, “Decision Making Theory”, and “Inventions Theory” in BSUIR.

In 2013-2016, he was Invited Professor in L.N.Gumilyov Eurasian National University (Astana, Kazakhstan) to teach courses on “Development of complex computer systems” and “Robotics and Intelligent data processing”.

In 2016, he was invited to Foreign Poland Technical University (Vilnius, Lithuania) to deliver a course on “Neural computers: idea, creating, application”.

In 2017, he was Invited Professor in China Takent and Technology Co., Ltd. (Guiyang, China) and delivered a course on “Evaluation and prediction of reliability of control systems of robotics complex”.

In Oct. 2018-Sep. 2019 he was technical adviser in International Intelligent Machines Co. Ltd (en.iim.ltd, is operating in China, Singapore and Belarus) where he introduced modern intelligent technologies.

During the last 10 years, he led more than 15 R&D projects both under national government funding and on commercial basis. Some of them included as follows:

1. Software for passport identification and its authenticity identification.
2. Software for quality control of silicon wafers production process in real time.

3. Software for control of dynamic stand for testing of the optoelectronic devices with a gyroscopic stabilization.
4. Software to analyze the Barkhausen effects in the automation system of technological equipment.
5. PCI-Express interface based on FPGA Xilinx and System for prototyping of real-time co-processors.
6. Software for automation of medical equipment for cancer diagnosis.
7. High-performance computer system for the processing of satellite images.
8. Software for simulation of radar signals and identification of radar portraits of aerial and ground objects.
9. Fuzzy classifier based on parallel processor.
10. Software for optical-electronic system of computer vision.
11. Software for medical patient monitoring systems in stationary clinics.
12. Software for optical laboratory equipment automation.
13. Modeling of dynamic social, biological and other systems.

In 2013-2016 Prof. M. Tatur initiated and led a large innovative project aimed at creating mobile robots for emergency services. In total 10+ organizations were involved in the project including the Belarusian Ministry of Education, Science and Technology Park of BNTU "Polytechnic", Belarusian State University of Informatics and Radioelectronics, Plant "LEMT", Smorgon`s Tractor Plant, etc. The project was funded under the State Programme on Innovative Development of the Republic of Belarus. As a result, the team had developed and successfully approved mobile robots for fire fighting and emergency situations.



In 2014-2017 he was the Principal Investigator of an educational project on "Centers of Excellence for Young Researchers" (Ref. No. 544137-TEMPUS-1-2013-1-SK-TEMPUS-JPHES, TEMPUS program, ceres.ntu.edu.ua/en/).

In 2016-2019 he was the Principal Investigator of an educational project "Applied curricula in space exploration and intelligent robotic systems" (Ref. No. 573545-EPP-1-2016-1-DE-EPPKA2-CDHE-JP, ERASMUS+ program, apple.erasmus.plus).

AWARDS

In 2004 his project on "Parallel Processors for Intelligent Technologies" won the Central European Initiative Award "From Research to Enterprise". As a result, in 2005 he founded a high-tech company "Intellectual Processors" Ltd. (www.i-proc.com).

In 2010 Prof. M. Tatur's innovative project on "Neural computers: development and production" took second place in the National Competition of Innovation Projects.

In Oct. 2019 he was semifinalist of "Huawei Innovation Contest 2019" held in Skolkovo (Moscow, Russia) with his project on "Technology to enhance performance for intelligent computing".

PUBLICATIONS. PATENTS

Over 150 publications including 2 monographs, 30 patents on inventions.

- (2019) Tatur M.M., Lukashevich M.M., Pertsev D.Y., Iskra N.A. INTELLIGENT DATA ANALYSIS AND CLOUD COMPUTING. Doklady BGUIR, Issue 6 (2019), pp. 62-71 (in Russian). DOI: [10.35596/1729-7648-2019-124-6-62-71](https://doi.org/10.35596/1729-7648-2019-124-6-62-71)
- (2019) Zhartybayeva M.G., Tatur M.M., Shaverdo M.M., Iskakov K.T. METHODS OF REDUCING THE COMPUTATIONAL COMPLEXITY OF FUZZY INFERENCE ALGORITHMS FOR IMPLEMENTATION ON A MICROCONTROLLER WITH LIMITED COMPUTATIONAL RESOURCES. Eurasian Journal of Mathematical and Computer Applications, V.7, Issue 1 (2019), pp. 65-78. DOI: [10.32523/2306-6172-2019-7-1-65-78](https://doi.org/10.32523/2306-6172-2019-7-1-65-78)
- (2017) Parkhimenka U., Tatur M., Zhvakina A. HEURISTIC APPROACH TO ONLINE PURCHASE PREDICTION BASED ON INTERNET STORE VISITORS CLASSIFICATION USING DATA MINING METHODS. 2017 International Conference on Information and Digital Technologies, Zilina, Slovakia, pp. 304-307. DOI: [10.1109/DT.2017.8024313](https://doi.org/10.1109/DT.2017.8024313).
- (2016) Tatur M. M., Dadykin A. K. and Kurdi M. M. MULTIFUNCTION SYSTEM OF MOBILE ROBOTICS. 2016 Third International Conference on Electrical, Electronics, Computer Engineering and their Applications, Beirut, Lebanon, pp. 110-113. DOI: [10.1109/EECEA.2016.7470775](https://doi.org/10.1109/EECEA.2016.7470775).
- (2015) Tatur M., Adzines D., Seitkulov Y. and Lukashevich M. DATA MINING PROCESSING BASED ON PROBLEM-ORIENTED MACHINE ARCHITECTURE. 2015 International Conference on Information and Digital Technologies, Zilina, Slovakia, pp. 372-375. DOI: [10.1109/DT.2015.7222999](https://doi.org/10.1109/DT.2015.7222999).
- (2014) Seitkulov Y., Tokhtabayev A., Atanov S., Verenik N. L., Girel A. I. and Tatur M. M. METHODOLOGY OF BUILDING INTELLIGENT SYSTEMS ON PARALLEL PROCESSOR. 2014 IEEE 8th International Conference on Application of Information and Communication Technologies, Astana, Kazakhstan, pp. 1-5. DOI: [10.1109/ICAICT.2014.7035973](https://doi.org/10.1109/ICAICT.2014.7035973).
- (2014) Verenik N. L., Girel A. I., Seitkulov Y. N., Tatur M. M. and Razhkova H. P. COGNITIVE INFORMATION PROCESSING BASED ON A PARALLEL PROCESSOR. The 10th International Conference on Digital Technologies, Zilina, Slovakia, pp. 356-360. DOI: [10.1109/DT.2014.6868739](https://doi.org/10.1109/DT.2014.6868739).
- (2013) Adzinets D. N., Razhkova H. P. and Tatur M. M. PROBLEM-ORIENTED PARALLEL PROCESSORS FOR THE SOLVING OF CLASSIFICATION TASKS. The International Conference on Digital Technologies 2013, Zilina, Slovakia, pp. 142-146. DOI: [10.1109/DT.2013.6566302](https://doi.org/10.1109/DT.2013.6566302).
- (2014) Bialevich A.U., Grischuk V.N., Tatur M., Mikhalkevich Y.F. DEVELOPMENT OF CONTROL ALGORITHMS FRICTION CLUTCHES AUTOMATIC TRANSMISSIONS. Eurasian Journal of Mathematical and Computer Applications. V.2, Iss. 1 (2014), pp. 5-13. DOI: [10.32523/2306-3172-2014-2-1-5-13](https://doi.org/10.32523/2306-3172-2014-2-1-5-13).
- (2014) Verenik N., Seitkulov Y.N., Girel A.I., Tatur M. SOME REGULARITIES AND OBJECTIVE LIMITATIONS OF IMPLEMENTING SEMANTIC PROCESSING ALGORITHMS ON COMPUTING SYSTEMS WITH MASSIVE PARALLELISM. Eurasian Journal of Mathematical and Computer Applications. V.2, Iss. 2 (2014), pp. 92-101. DOI: [10.32523/2306-3172-2014-2-2-92-101](https://doi.org/10.32523/2306-3172-2014-2-2-92-101).