DEPARTMENT OF CYBERNETICS AND ARTIFICIAL INTELLIGENCE

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Head of Department
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1 DEPARTMENT'S PROFILE

The Department of Cybernetics and Artificial Intelligence (DCAI) is responsible for educationin two study programs: Intelligent Systems, and Business Information Systems at all three levels of university education (bachelor, master and PhD).

The main research topics at the DCAI are intelligent and cognitive robotics with the aim to develop learnable collaborative robot systems, interactive intelligent environment able to perceive and recognise activities and events, cloud computation, data science, knowledge management, semantic technologies, intelligent decision support systems, mobile technologies, pervasive computing, processing and analysis of the large volume and continuous data in real-time, Internet of things, Industry 4.0, modern control theory and fault tolerant control design, cyber-physical systems, under-actuated and actuated nonlinear dynamical systems, flexible manufacturing systems, collective intelligence and computer vision.
The predecessor of the Department was founded in 1964. Department of Cybernetics

and Artificial Intelligence was adapted in 1989. Currently it has 24 staff members and 27 internal PhD. students. There are 3 research centers within the department: Center of Intelligent Technology (http://www.cloudai.sk/), Center of Applied Cybernetics (http://kkui.fei.tuke.sk/info/cak) and Center of Business Information Systems (http://kkui.fei.tuke.sk/chi/). The Department is involved in a number of research and educational projects (see below).

2 STAFF

Professors:
prof. Ing. Dušan Krokavec, CSc.
prof. RNDr. Eva Ocelíková, CSc.
prof. Ing. Ján Paralič, PhD.
prof. Ing. Tomáš Sabol, CSc.
prof. Ing. Ján Sarnovský, CSc.
prof. Ing. Peter Sinčák, CSc.
prof. Ing. Iveta Zolotová, CSc.

Associate Professors:
doc. Ing. Marek Bundzel, PhD.
doc. Ing. Peter Butka, PhD.
doc. Ing. Anna Filasová, CSc.
doc. Ing. Anna Jadlovská, PhD.
doc. Ing. Ján Jadlovský, CSc.
doc. Ing. Marián Mach, CSc.
doc. Ing. Kristína Machová, CSc.
doc. Dr. Ing. Ján Vaščák

Assistant Professors:
Ing. František Babič, PhD.
Ing. Peter Bednár, PhD.
Ing. Anna Biceková, PhD.
Ing. Vladimír Gašpar, PhD.
Ing. Slávka Jadlovská, PhD.
Ing. Gergely Magyar, PhD.
Ing. Peter Papcun, PhD.
Ing. Martin Sarnovský, PhD.

Technical Staff:
Tatiana Baňasová
Ing. Renáta Giannusis

Ph.D. Students (internal):

1st.
Ing. Juliana Ivančáková
Ing. Miroslav Jaščur
Ing. Lukáš Koska
Ing. Ján Magyar
Ing. Katarína Oravcová
Ing. Ľudmila Pusztová
Ing. Jaroslav Socháň
Ing. Pavol Šatala

2nd.
Ing. Norbert Ferenčík
Ing. Erik Kajáti
Ing. Patrik Sabol
Ing. Zuzana Pella

3rd.
Ing. Martin Čertický

Ing. Jozef Mocnej
Ing. Miroslav Smatana
Ing. Peter Takáč
Ing. Michal Vadovský
Ing. Dominik Vošček
Ing. Michal Varga

4th.

Ing. Ján Čabala
Ing. Jakub Hvizdoš
Ing. Martin Mikula
Ing. Martin Miškuf
Ing. Miroslava Muchová
Ing. Ladislav Nyulászi
Ing. Matej Oravec
Ing. Michal Puheim

3 RESEARCH TEAMS

- Data science- primarily focused on methods and models for analysis of different types of data and models and methods for the processing and analysis of large volumesof data and continuous flows of data in real-time. (http://kkui.fei.tuke.sk/chi/?path=english)
- Fault-tolerant and Robust Control- primarily focused oninnovative control design techniques exploiting convex optimization problems with constraints and disturbance suppression, models and algorithms for processing and synthesis of robust control of dynamical systems working under system model uncertainties and severe failure conditions and design, implementation and experimental verification of methods guarantying system fault tolerance and reconfiguration structures of control.
- Modern Control Techniques and Industrial Informatics- primarily focused onmethods and developing resources for hybrid modeling and control of cyber-physical systems, new methods and algorithms for modeling, identification, control and diagnostics of under-actuated and actuated nonlinear dynamical systems, research and development of flexible manufacturing systems, automated and robotic production lines and the design of diagnostic systems focused on diagnostics of vibration and chatter for the cyber systems.
  (http://kyb.fei.tuke.sk/laben/)
- Intelligent Cybernetic Systems- primarily focused on machine learning algorithms, collective intelligence, and optimalization, and computer vision, intelligent and cognitive robotics, smart living, intelligent space topics, sensors nets, intelligent gateways and processing with IoT/IoE and cloud technologies in smart industry, and multi-robotics systems and navigation.
  (http://ics.fei.tuke.sk/)
- Intelligent Technologies and Systems- primarily focused on intelligent robotics (to develop learnable collaborative robot systems), interactive intelligent environment able to perceive and recognise activities or events, and cloud computation (AI bricks – modular services providing functionality of selected artificial intelligence methods).
  (http://www.cloudai.sk/index.php/en/events/)

4 TEACHING

4.1 Undergraduate Study (Bc.)

Subject	Semester	Lectures/exercises (hours per week)	Name of lecturer
Basics of Intelligent Systems	2nd	2/2	Sinčák
Introduction to Business Informatics	2nd	1/2	Paralič
Industry 4.0.	2nd	2/2	Zolotová Papcun
Basics of Automatic Control	3rd	2/2	Jadlovská A., Jadlovský
Open Informatics for Intelligent Systems	3rd	2/2	Zolotová
Simulation Systems	3rd	2/2	Jadlovská A., Jadlovská S.
Project Management	3rd	2/2	Babič
MIcrocontrollers	3rd	2/2	Jadlovský
Information Systems Analysis and Design	3rd	1/2	Babič, Sarnovský M.
Simulation systems in Business Information Systems	4th	1/2	Butka
Knowledge-Based Systems	4th	2/2	Machová
Control and Visualization Systems	4th,5th	2/2	Zolotová Papcun
Intelligent Decision Making Systems	4rd,5th	2/2	Mach
Control System Components	3rd,4rd	2/2	Vaščák
Web Technologies	4th,6th	2/2	Bednár
Control of Technological Processes	4th	2/2	Jadlovský
Scheduling and Logistics	4th	2/2	Paralič Butka
Optimal Control of Hybrid Systems	5th	2/2	Jadlovská A.
Intelligent Robotics	5th	2/2	Bundzel
Business Analytics	5th	2/2	Butka
Neural Networks	5th	2/2	Sinčák
Models and control of industrial processes (MRPP)	5th	2/2	Filasová, Jadlovská S.
Computer Systems in Control	5th	2/2	Jadlovský
Optimisation in Economic Processes	5th	2/2	Filasová
Business Informatics in practice	6th	2/2	Babič
Service Robotics	6th	2/2	Mach
IT Management	5th	2/2	Sarnovský M.
Selected topics in cybernetics II	6th	2/2	Sarnovský J.

4.2 Graduate Study (Ing.)

Subject	Semester	Lectures/exercises (hours per week)	Name of lecturer
Discret Control of Dynamic Systems	1st	2/2	Filasová
Computer Vision	1st	2/2	Bundzel
Humanoid Technologies	1st,3rd	2/2	Magyar
Computer Systems in Control	1st	2/2	Jadlovský
Architectures of Industrial Information Systems	1st	2/2	Zolotová

Subject	Semester	Lectures/exercises (hours per week)	Name of lecturer
Engineering Econometrics	2nd	2/2	Krokavec
Knowledge Discovery	1st	2/2	Paralič
Machine Learning	1st	2/2	Machová
Heuristic Optimization Processes	1st	2/2	Mach
Control and Artificial Intelligence	2nd	2/2	Jadlovská
Technologies for Big Data Processing	2nd	2/2	Bednár, Sarnovský M.
Evolutionary Algorithms	2nd	2/2	Mach
Distributed Control Systems	2nd	2/2	Jadlovský
Decision making and complexity	2nd	2/2	Gašpar
Hybrid Computational Intelligence	2nd	2/2	Vaščák
Control and Visualisation Systems	2nd	2/2	Zolotová Papcun
Knowledge Management	3rd	2/2	Paralič
Design and testing of software systems	3rd	1/2	Gašpar
Management Information Systems	3rd	2/2	Jadlovský
Diagnostics and Robust Control	3rd	2/2	Filasová
Advanced methods of computer vision	3rd	2/2	Bundzel
Cognitive Robotics	3rd	2/2	Bundzel
Semantic and Social Web	3rd	2/2	Machová
Languages for Intelligent Systems	3rd	2/2	Mach
Applications of Cloud Technologies	3rd	2/2	Magyar
New Trends in Business Information Systems	4th	2/2	Paralič

5 RESEARCH AND EDUCATIONAL PROJECTS

- ***Semantic keyword-based search on structured data sources (KEYSTONE),*** COST Action IC1302, European Cooperation in Science and Technology, duration: 2014 – 2017, members from our department: Peter Butka (Management Committee member for Slovakia), Peter Bednár, Martin Sarnovský, Ján Paralič
- ***Big Data Era in Sky and Earth Observation),*** COST Action TD1403, European Cooperation in Science and Technology, duration: 2014 – 2018, members from our department: Peter Butka (Management Committee member for Slovakia)
- ***European Network for cost containment and improved quality of health care***, COST Action CA15222, European Cooperation in Science and Technology, duration: 2016 – 2020, members from our department: František Babič (Management Committee member for Slovakia)
- ***Indoor living space improvement: Smart Habitat for the Elderly***, COST Action CA16226, European Cooperation in Science and Technology, duration: 2017 – 2021, members from our department: František Babič (Management Committee member for Slovakia)
- ***European Network for the Joint Evaluation of Connected Health Technologies***, COST Action TD1405, European Cooperation in Science and Technology, duration: 2014 – 2018, members from our department: František

Babič (Management Committee member for Slovakia)

- ***Autonomous Control for a Reliable Internet of Services***, COST Action IC1304, European Cooperation in Science and Technology, duration: 2013 – 2017, members from our department: Peter Bednár (Management Committee member for Slovakia)
- ***ALICE Experiment at the LHC at CERN – study of strongly interacting matter under extreme conditions,***International project of basic research, duration: 2016 – 2020, members from our department: Ján Jadlovský (Team Leader for TUKE), Slávka Jadlovská (Deputy Team Leader), Anna Jadlovská, Jakub Čerkala, Michal Kopčík, Matej Oravec, Ján Čabala, Michal Varga, Dominik Vošček, Lukáš Koska, Jaroslav Socháň (http://alice-cern.fei.tuke.sk/)
- ***Cloud Based Human Robot Interaction,*** Slovak Research and Development Agency project No. APVV-15-0731, duration: 2016 – 2020, *project leader:* Peter Sinčák
- ***Knowledge-based approaches for intelligent analysis of big data***, Slovak Research and Development Agency project No. APVV-16-0213, duration: 2017 – 2019, in cooperation with Slovak University of Technology in Bratislava, Faculty of Informatics and information Technologies. Members from our department: Ján Paralič (project leader), Peter Bednár, Peter Butka, Kristína Machová, František Babič, Martin Sarnovský, Vladimír Gašpar, Miroslava Muchová, Michal Vadovský, Miroslav Smatana, Zuzana Pella
- ***Control reconfiguration with active fault diagnosis,*** Scientific Grant Agency project No. 1/0608/17, duration: 2017 – 2019, members: Dušan Krokavec (project leader), Filasová Anna
- ***Methods and models for analysis of data streams***, Scientific Grant Agency project No. 1/0493/16, duration: 2016 – 2019, members: Ján Paralič (project leader), Martin Sarnovský, Peter Bednár, František Babič, Peter Butka, Kristína Machová, Vladimír Gašpar, Anna Biceková, Michal Vadovský, Miroslav Smatana, Miroslava Muchová, Martin Mikula, Zuzana Pella, Katarína Oravcová, Pavol Šatala, Ľudmila Pusztová, Juliana Ivančáková
- ***Intelligent Cyber-Physical Systems in Heterogenous Environment with IoE and Cloud Services Support,*** Scientific Grant Agency project No. 1/0663/17, 2017-2020, members: Iveta Zolotová (project leader), Marek Bundzel, Peter Papcun, Ján Sarnovský, Erik Kajáti, Norbert Ferenčík, Jozef Mocnej, Tomáš Lojka, Martin Miškuf
- ***CyberLabTrainSystem – demonstrational and training of informationcontrol systems – innovation.*** Cultural and Education Grant Agency Project No. 001TUKE-4/2015, duration 2015 – 2017, members: Iveta Zolotová (project leader), Marek Bundzel, Peter Papcun, Ján Sarnovský, Anna Jadlovská, Ján Jadlovský, Slávka Jadlovská, Tomáš Lojka, Martin Miškuf, Jozef Mocnej, Michal Kopčík, Dominik Vošček, Matej Oravec, Ján Čabala, Erik Kajáti, Norbert Ferenčík
- ***Introduction of Education in Big Data Analytics.*** Cultural and Education Grant Agency Project No. 025TUKE-4/2015, duration 2015 – 2017, members: Ján Paralič (project leader), Martin Sarnovský, Peter Bednár, František Babič, Peter Butka, Kristína Machová, Marián Mach, Michal Vadovský, Miroslav Smatana, Miroslava Muchová, Martin Mikula, Zuzana Pella

- ***Introduction of practical education of mobile technologies through the development of applications for smart devices.*** Cultural and Education Grant Agency Project No. 005TUKE-4/2017, duration 2017 – 2019, members: František Babič (project leader), Vladimír Gašpar, Martin Sarnovský, Peter Bednár, Michal Vadovský, Miroslav Smatana, Martin Mikula, Miroslava Muchová.
- ***Digitalization, virtualization and testing of a small turbojet engine and its elements using stands for modern applied lecturing,*** Cultural and Education Grant Agency Project No. 014TUKE-4/2015, duration 2015 – 2017, members: Peter Butka (previously Ladislav Madarász) - project leader, Rudolf Andoga (project vice leader), Tobiáš Lazar, Ladislav Főző, Vladimír Gašpar, Jozef Judičák, Michal Puheim, Ladislav Nyulászi, and Róbert Bréda
- ***University Science Park TECHNICOM for Innovation Applications Supported by Knowledge Technology***, ITMS: 26220220182, supported by the Research & Development Operational Programme funded by the ERDF. Three pilot projects are performed at our department:
    - PP4: IT tools and services for analysis of various types of processes, Ján Paralič -pilot project leader, members: František Babič, Gabriel Tutoky, Martin Sarnovský, Peter Bednár, Peter Butka, Alexandra Lukáčová, Vladimír Gašpar, Cecília Havrilová, Michal Puheim, Miroslava Muchová, Martin Mikula
    - PP5 – Cloud and dynamic services for distributed. intelligent and mobile networks: lead by Frantisek Jakab from DCI, from DCAI have been participating: Iveta Zolotová, Peter Michalik, Tomáš Lojka, Martin Miškuf, Erik Kajáti, Jozef Mocnej
    - PP6: Use of artificial intelligence in intelligent systems, Peter Sinčák- pilot project leader
    - PP7: Center for Nondestructive Diagnostics of Technological Processes Using Standard Software for Control and Communication, Ján Jadlovský- pilot project leader, members: Ján Sarnovský, Anna Jadlovská, Iveta Zolotová, Slávka Jadlovská, Peter Papcun, Jakub Čerkala, Michal Kopčík, Matej Oravec, Ján Čabala
- **IT Academy – educationfor the 21st century**, ITMS: 312011F057, duration: 2017-2021. Innovation of the university subjects for preparation of students for employment in the IT sectorin the areas of:
    - Intelligent cyber-physical systems and IoE, members: Iveta Zolotová, Marek Bundzel, Ján Vaščák, Peter Papcun
    - Data science, members: Ján Paralič, Peter Butka, František Babič, Peter Bednár, Martin Sarnovský
- ***Software development for portable IoT devices***, Tatrabanka Foundation, Education quality 2017. Project leader: Vladimír Gašpar, members: František Babič, Pavol Šatala, študenti HI.
- ***Pervasive computing in medical diagnostics,*** FEI research grant, 2017, Project leader: Vladimír Gašpar, members: Juliana Ivančáková, Katarína Oravcová, Ľudmila Pusztová, Pavol Šatala.
- ***Microsoft Azure Research Award***: IoT Cloud Control – Smart Living and

Smart Manufacturing, project leader: Jozef Mocnej, members: Iveta Zolotová, Peter Papcun, Tomáš Lojka, Martin Miškuf

- ***Microsoft Azure Research Award***: Smart Manufacturing, 2017-2018, project leader: Peter Papcun, members: Iveta Zolotová, Marek Bundzel, Jozef Mocnej, Erik Kajáti, Norbert Ferenčík, Tomáš Lojka, Martin Miškuf
- ***REPAIR – REhabilitation PlAtform ImpRovement***, Foundation of Tatrabanka – E-talent, project leader: Marek Bundzel, members: Norbert Ferenčík, Iveta Zolotová, Peter Papcun, Erik Kajáti and students
- ***Quo vadis Smart Industry/Industry 4.0?,*** Foundation of Tatrabanka – Quality of Education, project leader: Iveta Zolotová, members: Peter Papcun, Marek Bundzel, Tomáš Lojka, Martin Miškuf, Jozef Mocnej, Erik Kajáti, Norbert Ferenčík
- ***Research laboratory for nonlinear underactuated systems,*** faculty research grant, project leader: Slávka Jadlovská, members: Dominik Vošček, Lukáš Koska, Matej Oravec, Ján Čabala
- ***CHECkuP – Cognitive HEalthCare Platform,*** faculty research grant, 2017, project leader: Martin Miškuf, members: Tomáš Lojka, Jozef Mocnej and students
- ***Robot - Human Coexistence in the Education of the Internet of Things,*** Foundation of Tatra banka – Quality of Education, No. 2015vs075. Project leader: Ján Vaščák, members: Rudolf Jakša, Jakub Hvizdoš, Michal Puheim, Jakub Szász, Adam Březina.
- ***Artificial Intelligence for Cloud based Intelligent Robotics,*** Scientific Grant Agency ***research grant 1/0773/16, 2016-2019, project leader:*** Peter Sinčák

6 CO-OPERATION

6.1 Co-operation in Slovakia

- Department of Automatic Control Systems Bratislava, Slovak University of Technology, Bratislava
- Institute of Intelligent Systems, Faculty of Informatics, Slovak University of Technology, Bratislava
- Faculty of Informatics and Information Technologies, Slovak University of Technology in Bratislava
- Institute of Computer Science, Slovak Academy of Sciences in Bratislava
- Department of Biophysics IEP Slovak Academy of Science
- Institute of Computer Science, University of P.J. Šafárik, Košice
- Institute of Experimental Physics, Slovak Academy of Sciences
- Department of applied informatics (Centre for Cognitive Science), Faculty of Mathematics, Physics and Informatics, Comenius University, Bratislava
- Department of Control and Information Systems, Faculty of Electrical Engineering, University of Zilina
- IT Valley Košice
- US Steel Košice
- Microsoft Slovakia
- IBM Slovakia

- Control Systems Slovakia
- Betamont Slovakia

6.2 International Co-operation

- Department of Software Engineering and Interactive Systems, Vienna University of Technology, Austria
- Dept. for Technical & Operational Information Systems (Data & Knowledge Engineering Group), Otto-von-Guericke-University Magdeburg, Germany
- University of Regensburg, Germany
- University of Dortmund, Germany
- Waseda University, Tokyo, Japan
- Technical University of Czestochowa
- Tokyo Institute of Technology, Japan
- Kuyshu Institute of Technology, Japan
- University Pablo de Olavide of Seville, Spain
- Université Joseph Fourier Grenoble, IUT 1 (Institut Universitaire de Technologie 1), Grenoble, France
- Heudiasyc UMR CNRS 6599, UTC, Compiegne, France
- Université Henri Poincaré, Laboratoire CRAN (Centre de Recherche en Automatique de Nancy), Nancy 1, France
- Department of Informatics, Technical University Ostrava, Czech Republic
- Department of Control Systems and Instrumentation, Faculty of Mechanical Engineering Technical University Ostrava, Czech Republic
- Department of Cybernetics and Biomedical Engineering, Technical University Ostrava, Czech Republic
- Department of Cybernetics, Czech Technical University Prague, Czech Republic
- Department of Control Engineering, Czech Technical University, Prague, Czech Republic
- Institute of Information Theory and Automation, Academy of Sciences of Czech Republic, Prague, Czech Republic
- Department of Information Engineering, Faculty of Economics and Management, Czech University of Agriculture, Prague, Czech Republic
- University of Hradec Králové, Czech Republic
- Dept. of Computer Science and Engineering, Faculty of Applied Sciences, University of West Bohemia, Plzeň
- Faculty of Mechanical Engineering, Department of Automation, Institute of Information, University of Miskolc, Hungary
- Óbuda University, Budapest, Hungary
- Budapest University of Technology and Economics, Hungary
- Hungarian Academy of Sciences, Computer and Automation Research Institute, Hungary
- Regional Association of the Hungarian Academy of Sciences, Miskolc, Hungary

6.3 Membership in International Organizations and Societies

- Bundzel M.: IEEE, Computational Intelligence Society
- Krokavec, D.: Member of the International Federation of Automatic Control IFAC Technical Committee TC 1.4 Stochastic Systems and TC 6.4 Fault Detection, Supervision & Safety of Technical Processes

- IEEE Student Branch – Lojka, Miškuf, Hvizdoš, Mocnej, Ferenčík, Kajáti
- Ocelíková, E.: CSSSCzech and Slovak Society for Simulation
- Machová, K.: ACM – Association of Computer Machinery
- Papcun P.: IEEE, Automation and Robotic Society
- Paralič, J.: ACM – Association for Computing Machinery, IEEE
- Sabol, T.: Information Society Technologies Program Committee (IST PC), 5th Framework Program, Brussels
- Sarnovský, J.: INESInternational Network of Engineers and Scientists for Global Responsibility
- Sarnovský, J.: Principia Cybernetica Web PRNCYB-L
- Sarnovský, J.: SWIISSuplementary Ways for Improving International Stability
- Sinčák P.: European Society of Neural Networks
- Sinčák P.: IEEE, Computational Intelligence Society
- Vaščák, J.: IEEE – senior member, Computational Intelligence Society
- Zolotová, I.: IEEE – senior member, IEEE SMC Society, IEEE Educational Society

6.4 Membership in Slovak Organizations and Societies

- The whole Department of Cybernetics and Artificial Intelligence is a team member of:
  - Slovak Society for Cybernetics and Informatics
  - Slovak AI Society
- Filasová, A.: Slovak Society for Cybernetics and Informatics
- Krokavec, D.: Slovak Electrical Engineering Society
- Jadlovská, A; Ocelíková, E.; Sarnovský, J.: Slovak Society for Cybernetics and Informatics
- Paralič, J.: Slovak Society for Computer Science
- Sabol, T.: Board of the Open Society Fund, Bratislava

6.5 International Networks and Exchange Programs

- Erasmus+ programme Inter-institutional agreement 2014-2021 between TU of Košice and TECHNOLOGIKO EKPAIDEFTIKO IDRYMA-PIREA, T.E.I. Pirea, Greece, contact person: Iveta Zolotová
- Erasmus+ programme agreement between TU of Košice and University of Wellington New Zealand, contact person: Iveta Zolotová
- SocratesErasmus agreement between TU of Košice and Czech University of Life Sciences, Prague, Czech Republic. Contact person: Eva Ocelíková
- Socrates Erasmus agreement between TU of Košice and University Pablo de Olavide, Sevilla, Spain. Contact person: Ján Vaščák
- SocratesErasmus agreement between TU of Košice and University Hradec Kralove, Czech Republic. Contact person: Ján Vaščák
- SAIA – National Scholarship Program – University of Berkeley USA – Norbert Ferenčík; Chukyo University in Nagoya, Japan – Patrik Sabol
- Huawei, China – Seeds for Future 2017, awarded students: Ladislav Pomšár, Simona Korkobcová

6.6 Visitors to the Department

- D. Fiala–University of West Bohemia, Czech Republic
- L. Kovacs – University of Miskolc, Hungary
- J. Koziorek – Faculty of Electrical Engineering and Computer Science, VŠB

– Technical University of Ostrava, Czech Republic

6.7 Visits of Staff Members to Foreign Institutions

- F. Babič, Slovenia, 21.-23.02.2017
- J. Paralič, M. Vadovský, Z. Vantová, Czech Republic, 21.-24.02.2017
- P. Butka, Serbia, 19.-22.02.2017
- P. Butka, Hungary, 23.-25.02.2017
- J. Jadlovský, S. Jadlovská, D. Vošček, Switzerland, 20.-26.03.2017
- P. Sinčák, Hungary, 02.-04.03.2017
- P. Sinčák, Italy, 04.-11.03.2017
- M. Mikula, J. Mocnej, New Zealand, 01.01.-28.07.2017
- M. Mikula, Hungary, 15.-25.04.2017
- P. Butka, Great Britain, 05.-08.04.2017
- K. Machová, Hungary, 03.04.2017
- M. Miškuf, T. Lojka, E. Kájati, L. Pomšár, Czech Republic, 06.-09.04.2017
- P. Sinčák, Czech Republic, 01.-02.05.2017
- P. Sinčák, Hungary, 02.-05.05.2017
- D. Krokavec, Algeria, 06.-10.05.2017
- D. Krokavec, Czech Republic, 19-23.05.2017
- M. Oravec, J. Čabala, D. Vošček, Switzerland, 29.05-08.06.2017
- J. Jadlovský, S. Jadlovská, Switzerland, 31.05-08.06.2017
- D. Krokavec, Romania, 28.05-01.06.2017
- F. Babič, Spain, 03-05.07.2017
- K. Machová, Czech Republic, 30.05-01.06.2017
- F. Babič, Poland, 28.-30.06.2017
- J. Vaščák, Czech Republic, 19.06.2017
- P. Sinčák, Italy, 21.-23.06.2017
- S. Jadlovská, D. Vošček, Denmark, 20.-21.06.2017
- M. Miškuf, Great Britain, 23.06.-07.07.2017
- P. Butka, Czech Republic, 27.06.-02.07.2017
- P. Takáč, G. Magyar, Italy, 17.-23.07.2017
- F. Babič, Czech Republic, 03.-06.09.2017
- F. Babič, Greece, 18.-21.09.2017
- P. Sinčák, G. Magyar, Japan, China, 30.08.-25.09.2017
- P. Sabol, Japan, Canada, 19.09.-22.12.2017
- M. Miškuf, Great Britain, 04.-17.08.2017
- D. Krokavec, A. Filasová, Greece, 23.-28.08.2017
- J. Jadlovská, S. Jadlovská, A. Jadlovská, Switzerland, 30.08.-05.09.2017
- I. Zolotová, P. Papcun, Greece, 21.-28.08.2017
- M. Vadovský, Great Britain, 10.-13.09.2017
- D. Krokavec, Poland, 09.-14.09.2017
- P. Butka, Poland, 11.-13.09.2017
- M. Sarnovský, P. Butka, M. Muchová, Poland, 18.-19.09.2017
- J. Paralič, P. Butka, F. Babič, M. Mikula, M. Muchová, M. Smatana, M. Vadovský, Czech Republic, 04.-06.10.2017
- F. Babič, V. Gašpar, Hungary, 27.-29.09.2017
- P. Papcun, E. Kájati, Hungary, 20.-21.09.2017
- N. Ferenčík, USA, 01.10.-02.04.2017
- P. Butka, Bulgaria, 11.-15.10.2017
- P. Sinčák, M. Bundzel, Czech Republic, 04.-06.10.2017

- M. Smatana, Cypress, 19.-23.10.2017
- M. Miškuf, E. Kájati, Great Britain, 26.10.-06.11.2017
- P. Bednár, Netherlands, 08.-10.11.2017
- P. Sinčák, G. Magyar, Hungary, 08.-11.11.2017
- P. Sinčák, Hungary, 12.-13.11.2017
- J. Jadlovský, S. Jadlovská, L. Koska, J. Socháň, D. Vošček, Switzerland, 14.-24.11.2017
- D. Krokavec, Romania, 16.-19.11.2017
- P. Bednár, Belgium, 05.12.2017
- P. Sinčák, Czech Republic, 07.-09.12.2017

7 THESES

Thesis type	Bachelor	Master	Doctoral
Number	72	52	3

8 OTHER ACTIVITIES

- SAMI 2017 (IEEE 15th International Symposium on Applied Machine Intelligence and Informatics) was held on January 26-28, 2017 in Herl'any, Slovakia: http://conf.uni-obuda.hu/sami2017/
- WIKT 2017 - 12th Workshop on Intelligent and Knowledge oriented Technologies 2017 was held on November 30 - December 1, 2017 in Košice, Slovakia: http://web.tuke.sk/fei-cit/wikt2017/

9 PUBLICATIONS

9.1. Books

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[2] KROKAVEC, Dušan - FILASOVÁ, Anna - LIŠČINSKÝ, Pavol: Enhanced principles in design of adaptive fault observers. In: Fault Diagnosis and Detection. - Rijeka: InTech, 2017 P. 53-86. - ISBN 978-953-51-3203-5

[3] KROKAVEC, Dušan - FILASOVÁ, Anna: Stabilizing fuzzy control via output feedback. In: Modern Fuzzy Control Systems and Its Applications. - Croatia: InTech, 2017 P. 4-25. - ISBN 978-953-51-3390-2

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[5] BEDNÁR, Peter - SARNOVSKÝ, Martin: Technológie spracovania veľkých dát Návody na cvičenia/ - 1. vyd - Košice: Technická univerzita - 2017. - 91 s. - ISBN 978-80-553-2832-4.

9.1 Journals

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[8] ADAM, J. - ADAMOVA, D. - AGGARWAL, A. - AGLIERI RINELLA, M.M. - AGNELLO, M. - ČABALA, Ján - ČERKALA, Jakub - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - KOPČÍK, Michal - ORAVEC, Matej - VAĽA, Martin - VOŠČEK, Dominik: Flow Dominance and Factorization of Transverse Momentum Correlations in Pb-Pb Collisions at the LHC, 2017. In: Physical Review Letters. Vol. 118, no. 16 (2017), p. 162302-1-162302-12. - ISSN 0031-9007
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[10] ADAMOVA, D. - AGGARWAL, M.M. - AGLIERI RINELLA, A. - AGNELLO, M. - AGRAWAL, N. - ČABALA, Ján - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - KOPČÍK, Michal - ORAVEC, Matej - VAĽA, Martin - VOŠČEK, Dominik: Azimuthally Differential Pion Femtoscopy in Pb-Pb Collisions at root s(NN)=2.76 TeV, 2017. In: Physical Rview Letters. Vol. 118, no. 22 (2017), p. 222301-1-222301-12. - ISSN 0031-9007
[11] ADAM, J. - ADAMOVA, D. - AGGARWAL, M.M. - AGLIERI RINELLA, A. - AGNELLO, M. - ČABALA, Ján - ČERKALA, Jakub - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - KOPČÍK, Michal - ORAVEC, Matej - VOŠČEK, Dominik - VAĽA, Martin: K*(892)(0) and phi(1020)meson production at high transverse momentum in pp and Pb-Pb collisions at root sNN=2.76 TeV, 2017. In: Physical

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[12] ADAMOVA, D. - AGGARWAL, M.M. - AGLIERI RINELLA, A. - AGNELLO, M. - AGRAWAL, N. - ČABALA, Ján - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - KOPČÍK, Michal - ORAVEC, Matej - VOŠČEK, Dominik - VAĽA, Martin: Production of Sigma(1385)(+-) and Xi(1530)(0) in p-Pb collisions at root s(NN)=5.02 TeV, 2017. In: European Physical Journal C. Vol. 77, no. 6 (2017), p. 389-406. - ISSN 1434-6044
[13] ACHARYA, S. - ADAMOVA, D. - AGGARWAL, M.M. - AGLIERI RINELLA, A. - AGNELLO, M. - ČABALA, Ján - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - KOPČÍK, Michal - ORAVEC, Matej - VOŠČEK, Dominik - VAĽA, Martin: Energy dependence of forward-rapidity Jpsi and psi (2S) production in pp collisions at the LHC, 2017. In: European Physical Journal C. Vol. 77, no. 6 (2017), p. 1-26. - ISSN 1434-6044
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[17] ADAM, J. - ADAMOVA, D. - AGGARWAL, M.M. - RINELLA, GA - AGNELLO, M. - ČABALA, Ján - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - KOPČÍK, Michal - ORAVEC, Matej - VOŠČEK, Dominik - VAĽA, Martin: Centrality dependence of the pseudorapidity density distribution for charged particles in Pb-Pb collisions at root s(NN)=5.02 TeV, 2017. In: Physics Letters B. Vol. 772 (2017), p. 567-577. - ISSN 0370-2693
[18] ADAM, J. - ADAMOVA, D. - AGGARWAL, MM. - RINELLA, GA - AGNELLO, M. - ČABALA, Ján - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - KOPČÍK, Michal - ORAVEC, Matej - VOŠČEK, Dominik - VAĽA, Martin: Evolution of the longitudinal and azimuthal structure of the near-side jet peak in Pb-Pb collisions at root s(NN)=2.76 TeV, 2017. In: Physical Review C. Vol. 96, no. 3 (2017), p. 1-18. - ISSN 2469-9985
[19] ADAM, J. - ADAMOVA, D. - AGGARWAL, MM. - RINELLA, GA - AGNELLO, M. - ČABALA, Ján - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - KOPČÍK, Michal - ORAVEC, Matej - VOŠČEK, Dominik: Anomalous Evolution of the Near-Side Jet Peak Shape in Pb-Pb Collisions at root S-NN=2.76 TeV, 2017. In: Physical Review Letters. Vol. 119, no. 10 (2017), p. 1-13. - ISSN 0031-9007
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[36] ORAVEC, Matej - JADLOVSKÁ, Anna: Intelligent positioning plate predictive control and concept of diagnosis system design, 2017. In: Journal of Manufacturing and Industrial Engineering (MIE). Roč. 15, č. 1-2 (2017), s. 1-9. - ISSN 1339-2972
[37] ORAVEC, Matej - JADLOVSKÁ, Anna: Sensors fault diagnosis algorithm design of a hydraulic system, 2017. In: Acta Electrotechnica et Informatica. Roč. 17, č. 2 (2017), s. 30-37. - ISSN 1335-8243
[38] ČABALA, Ján - JADLOVSKÝ, Ján: Solving optimal assembly line configuration task by multi-objective decision making methods, 2017. In: Acta Electrotechnica et Informatica. Roč. 17, č. 2 (2017), s. 53-60. - ISSN 1335-8243
[39] PUHEIM, Michal - HVIZDOŠ, Jakub - SZABÓOVÁ, Martina - VAŠČÁK, Ján: Inteligentný priestor v centre inteligentných technológií – návrh systému, 2017. In: ATP Journal. Č. 8 (2017), s. 36-39. - ISSN 1335-2237
[40] SARNOVSKÝ, Martin - PETRA, Cibuľová: Podpora procesov v prostredí meracieho strediska v automobilovom priemysle, 2017. In: Transfer inovácií. Č. 35 (2017), s. 34-39. - ISSN 1337-7094
[41] KOPČÍK, Michal - JADLOVSKÝ, Ján: Embedded Control System for Mobile Robots with Differential Drive, 2017. In: Acta Electrotechnica et Informatica. Roč. 17, č. 3 (2017), s. 42-47. - ISSN 1335-8243
[42] JADLOVSKÝ, Ján - JADLOVSKÁ, Anna - JADLOVSKÁ, Slávka - ČERKALA, Jakub - KOPČÍK, Michal - ČABALA, Ján - ORAVEC, Matej - VARGA, Michal - VOŠČEK, Dominik: Modelovanie, diagnostika a optimalizácia výrobných liniek, 2017. In: Strojárstvo. Roč. 21, č. 11 (2017), s. 104-106. - ISSN 1335-2938
[43] JADLOVSKÁ, Anna - JADLOVSKÝ, Ján - JADLOVSKÁ, Slávka - ČERKALA, Jakub - KOPČÍK, Michal - ČABALA, Ján - ORAVEC, Matej - VARGA, Michal - VOŠČEK, Dominik - TKÁČIK, Milan - BŘEZINA, Adam: Návrh metodiky pre modelovanie, riadenie, simuláciu a nedeštruktívnu diagnostiku mobilných robotov, 2017. In: Strojárstvo / Strojírenství. (2017), s. 1-10. - ISSN 1335-2938.
[44] FŐZŐ, Ladislav - ANDOGA, Rudolf - BENEDA, Károly - KOLESÁR, Ján: Effect of operating point selection on non-linear experimental identification of iSTC-21v and TKT-1 small turbojet engines, 2017. In: Periodica Polytechnica Transportation Engineering. Vol. 45, no. 3 (2017), p. 141-147. - ISSN 0303-7800
[45] ČERKALA, Jakub - JADLOVSKÁ, Anna: Application of neural models as controllers in mobile robot velocity control loop, 2017. In: Journal of Electrical Engineering. Roč. 68, č. 1 (2017), s. 39-46. - ISSN 1335-3632

9.2 Other publications

Publication Type	Confereces		Other
	Foreign	Home	
Number	18	39	21