

DEPARTMENT OF CYBERNETICS AND ARTIFICIAL INTELLIGENCE

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prof. Ing. Peter Sinčák, CSc.
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1 DEPARTMENT'S PROFILE

The Department of Cybernetics and Artificial Intelligence (DCAI) is responsible for education in 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 25 staff members and 19 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 (<https://hi.kkui.fei.tuke.sk/>). 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. František Babič, PhD.
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, PhD.
doc. Dr. Ing. Ján Vaščák

Assistant Professors: Ing. Peter Bednár, PhD.
Ing. Slávka Jadlovská, PhD.
Ing. Peter Papcun, PhD.
Ing. Martin Sarnovský, PhD.
Ing. Miroslav Smatana, PhD.

Technical Staff: Tatiana Baňasová
Adriána Kandrová

Ph.D. Students (internal):

1st. Ing. Ivan Čik
Ing. Ladislav Pomšár
Andrinandrasana David Rasamoelina, MSc.
Ing. Milan Tkáčik

2nd. Ing. Dominika Čupková

Ing. Lukáš Hruška
Ing. Viera Maslej Krešňáková
Fouzia Adjailia, MSc.

3rd. Ing. Juliana Ivančáková
Ing. Miroslav Jaščur
Ing. Lukáš Koska
Ing. Ján Magyar
Ing. Ľudmila Pusztová
Ing. Jaroslav Socháň
Ing. Pavol Šatala

4th. Ing. Norbert Ferenčík
Ing. Erik Kajáti
Ing. Zuzana Pella
Ing. Patrik Sabol

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 volumes of data and continuous flows of data in real-time. (<https://hi.kkui.feituke.sk/>)
- **Fault-tolerant and Robust Control** – primarily focused on innovative 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 on methods 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.feituke.sk/lab/en/>)
- **Intelligent Cybernetic Systems** – primarily focused on machine learning algorithms, collective intelligence, and optimization, and computer vision, intelligent and cognitive robotics, smart living, intelligent space topics, sensors nets, intelligent gateways and processing with IoT/loE and cloud technologies in smart industry, and multi-robotics systems and navigation. (<http://ics.feituke.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/>)

4 TEACHING

4.1 Undergraduate Study (Bc.)

Subject	Semester	Lectures/exercises (hours per week)	Name of lecturer
Foundations of Intelligent Systems	2 nd	3/2	Sinčák
Introduction to Business Informatics	2 nd	1/2	Paralič, Babič
Industry 4.0.	2 nd	2/2	Zolotová Papcun
Basics of Automatic Control	3 rd	2/2	Jadlovská A., Jadlovský
Intelligent Space and IoT	3 rd	2/2	Papcun
Simulation Systems	3 rd	2/2	Jadlovská A., Jadlovská S.
Project Management	3 rd	2/2	Babič
Foundations of Python Language	3 rd	2/2	Magyar
Applications of Web Technologies	3 rd	2/2	Bednár
Information Systems Analysis and Design 1	3 rd	2/2	Babič, Sarnovský M.
Artificial Intelligence	3 rd	2/2	Sinčák, Machová
Object Oriented Programming	3 rd	2/2	Bundzel
Database Systems Applications	4 th	2/2	Babič, Smatana
Information Systems Analysis and Design 2	4 th	1/2	Bednár, Sarnovský M.
Knowledge-Based Systems	4 th	2/2	Machová
Intelligent Systems and Robotics	4 th	2/2	Vaščák
Knowledge-Based Systems	4 th	2/2	Machová
Intelligent Systems and Robotics	4 th	2/2	Vaščák
Fuzzy Systems	4 th	2/2	Vaščák
Neural Networks	4 th , 5 th	2/2	Sinčák
Supervision Systems and HMI	4 th	2/2	Zolotová
Intelligent Decision Making Systems	5 th	2/2	Mach
Control System Components	4 th	2/2	Jadlovský
Machine Learning	4 th	2/2	Machová
Scheduling and Logistics	4 th , 6 th	2/2	Paralič
Languages for Data Analytics	4 th	2/2	Butka
Optimal Control of Hybrid Systems	5 th	2/2	Jadlovská A.
Intelligent Robotics	5 th	2/2	Bundzel
Business Analytics	5 th	2/2	Butka
Models and Control of Industrial Processes	5 th	2/2	Filasová, Jadlovská S.
Computer Systems in Control	5 th	2/2	Jadlovský
Optimisation in Economic Processes	5 th	2/2	Filasová
Development of mobile intelligent solutions	5 th	2/2	Babič, Butka
Business Informatics in practice	6 th	2/2	Babič
Service Robotics	6 th	2/2	Mach
IT Management	5 th	2/2	Sarnovský M.
Repetition of Field	6 th	2/2	Jadlovská S., Papcun
Fundamentals of cloud technologies	6 th	1/2	Zolotová

4.2 Graduate Study (Ing.)

Subject	Semester	Lectures/exercises (hours per week)	Name of lecturer
Discret Control of Dynamic Systems	1 st	2/2	Filasová
Computer Vision	1 st	2/2	Bundzel
Architectures of Industrial Information Systems	1 st	2/2	Zolotová, Papcun
Knowledge Discovery	1 st	2/2	Paralič
Machine Learning	1 st	2/2	Machová
Heuristic Optimization Processes	1 st	2/2	Mach
Control and Artificial Intelligence	2 nd	2/2	Jadlovská
Technologies for Big Data Processing	2 nd	2/2	Bednár, Sarnovský M.
Evolutionary Algorithms	2 nd	2/2	Mach
Distributed Control Systems	2 nd	2/2	Jadlovský
Engineering Econometrics	2 nd	2/2	Krokavec
Hybrid Computational Intelligence	2 nd	2/2	Vaščák
Team project	1 st	0/3	Zolotová
Fundamentals of Deep Learning	2 nd	1/1	Sinčák
Current trends in Business Informatics	2 nd	2/1	Butka, Paralič
Knowledge Management	3 rd	2/2	Paralič, Bednár
Management Information Systems	3 rd	2/2	Jadlovský
Diagnostics and Robust Control	3 rd	2/2	Filasová
Advanced Methods of Computer Vision	3 rd	2/2	Bundzel
Cognitive Robotics	3 rd	2/2	Bundzel
Semantic and Social Web	3 rd	2/2	Machová
Languages for Intelligent Systems	3 rd	2/2	Mach
Applications of Cloud Technologies	3 rd	2/2	Bundzel
Advanced methods for data analysis	3 rd	1/2	Bednár

5 RESEARCH AND EDUCATIONAL PROJECTS

- **LifeBots Exchange – creating a new reality of care and welfare through the inclusion of social robots**, H2020-MSCA-RISE-2018 project 824047, duration: 2019-2023, projet leader for TUKE: Marek Bundzel
- **AI4EU – A European AI on Demand Platform and Ecosystem**, H2020 project 825619, duration: 2019-2021, project leader for TUKE: Peter Sinčák
- **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, Matej Oravec, Ján Čabala, Dominik Vošček, Lukáš Koska, Jaroslav Sochán (<http://alice-cern.fei.tuke.sk/>)
- **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)

- **Cloud Based Human Robot Interaction**, Slovak Research and Development Agency project No. APVV-15-0731, duration: 2016-2020, project leader: Peter Sinčák
- **KnowBot: Knowledge-based approaches for intelligent analysis of big data**, Slovak Research and Development Agency project No. APVV-16-0213, duration: 2017-2020, 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, Pavol Šatala, Ľudmila Pusztová, Juliana Ivančáková
- **Rebellion: Automated Recognition of Antisocial Behaviour in Online Communities**. Slovak Research and Development Agency project no. APVV-17-0267, duration: 2018-2022, coordinated by Pavol Návrát, Faculty of Informatics and Information Technologies, the Slovak University of Technology in Bratislava, members from our department: Kristína Machová (Team leader for TUKE), Peter Bednár, Peter Butka, Ján Paralič, Martin Sarnovský, Miroslav Smatana, Viera Maslej-Krešňáková
- **Determinants of increased cardiovascular risk and their prognostic significance analyzed by machine learning in the detection of high-risk individuals**. Slovak Research and Development Agency project no. APVV-17-0550, duration: 2018-2022, coordinated by Daniel Pella, Faculty of Medicine, P.J. Šafárik University in Košice, members from our department: Ján Paralič (Team leader for TUKE), František Babič, Peter Butka, Zuzana Pella, Ľudmila Pusztová, Juliana Ivančáková, Pavol Šatala
- **Artificial Intelligence for Cloud based Intelligent Robotics**, Scientific Grant Agency project No. 1/0773/16, 2016-2019, project leader: Peter Sinčák
- **Control reconfiguration with active fault diagnosis**, Scientific Grant Agency project No. 1/0608/17, duration: 2017-2020, 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, Pavol Šatala, Ľudmila Pusztová, Juliana Ivančáková, Viera Maslej Krešňáková
- **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, Ján Vaščák, Martin Miškuf, Dominika Čupková
- **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, Michal Vadovský, Miroslav Smatana

- **Smart Industry/Architectures od intelligent information and cybernetic systems**, Cultural and Education Grant Agency Project No. 033TUKE-4/2018, duration 2018-2020, members: Iveta Zolotová (project leader), Peter Papcun, Erik Kajáti, Ján Vaščák, Dominika Čupková, Norbert Ferenčík, Marek Bundzel, Miroslav Jaščur, Martin Miškuf, Jozef Mocnej
- **Implementation of research results in the area of modeling and simulation of cyber-physical systems into the teaching process** - development of modern university textbooks, Cultural and Education Grant Agency Project No. 072TUKE-4/2018, duration 2018 - 2020, members: Slávka Jadlovská (project leader), Anna Jadlovská, Matej Oravec, Ján Čabala, Dominik Vošček
- **Siemens Heathineers - Intelligent Health Lab, 2019-2023**, Iveta Zolotová (project leader), Ladislav Pomšár, Peter Papcun, Erik Kajáti, Ján Vaščák, Dominika Čupková
- **IBM Country Project Award – Pilot ThinkHub: IoT&AI&Robotics , 2018/2019**, Iveta Zolotová (project leader), Ladislav Pomšár, Peter Papcun, Erik Kajáti, Ján Vaščák, Dominika Čupková, Jozef Mocnej
- **US Steel Foundation - Research and innovation in laboratories for Intelligent Systems and Robotics, 2019**, Iveta Zolotová (project leader), Ladislav Pomšár, Peter Papcun, Erik Kajáti, Ján Vaščák, Dominika Čupková, Jozef Mocnej
- **Tatrabanka Foundation – Quality of education – MILEAGE – Machine Learning Generation**, duration: 2018-2019, Erik Kajáti (project leader)
- **IT Academy – education for the 21st century**, ITMS: 312011F057, duration: 2017-2021. Innovation of the university subjects for preparation of students for employment in the IT sector in 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

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

- Accenture Košice
- Americká obchodná komora na Slovensku
- bart.sk Košice
- Betamont Slovakia
- Control Systems Slovakia
- Elcom Prešov
- Erste Group IT International GmbH Bratislava
- Exponea Bratislava
- Fpt Slovakia: FPT Group
- Freudenberg IT
- GlobalLogic Slovakia
- Gymbeam Košice
- IBM Slovakia
- IT Valley Košice
- Microsoft Slovakia
- Ness Košice Development Center
- Pixel Federation
- Promiseo Košice
- Siemens Heatheeners, Košice
- US Steel Košice
- ui42 Bratislava
- VSE Holding, člen Innogy
- Východoslovenská distribučná, člen Innogy

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
- Kyushu 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, Compiègne, 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
- Faculty of Informatics and Management, University of Hradec Králové, Czech Republic
- Dept. of Computer Science and Engineering, Faculty of Applied Sciences, University of West Bohemia, Plzeň
- The Technical Faculty of IT and Design, Aalborg University, Denmark
- 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
- Laboratory for Industry 4.0 Smart Manufacturing Systems (LI4.0) , University of Auckland, New Zealand
- Center for Innovation in Design and Technology, Monterrey, Mexico

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.: IEEE – senior member, ACM – Association for Computing Machinery,
- 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.: SWIISupplementary 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 Auckland, 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

6.6 Visitors to the Department

- Manolis Wallace, University of Peloponnese, Tripolis - 8. - 12.4.
- Marcio Ferreira, University of Coimbra, Portugal - 11. - 24.3.
- Tomasz Miksa, Vienna University of Technology, Austria 9. - 10.12.

6.7 Visits of Staff Members to Foreign Institutions

- P. Sinčák Barcelona Španielsko 8. - 12.1.
- P. Butka Cascina Taliansko 13.- 17.1.
- F. Babič Porto Portugalsko 26.2.- 2.3.
- P. Sinčák Hefei, Šanghaj Čína 19. - 27. 5.
- L. Hruška Tokio Japonsko 15. - 27. 3.
- Fouzia Adjailia Tokio Japonsko 15. - 25. 3.
- D. Vošček Ženeva Švajčiarsko 23. 2. - 1. 3.
- S. Jadlovská Ženeva Švajčiarsko 25. 2. - 1. 3.
- L. Koska Ženeva Švajčiarsko 25. 2. - 1. 3.
- L. Hruška Kyoto Tokio Japonsko 28. 3. - 28. 6.
- M. Sarnovský Mladá Boleslav ČR 21. - 22. 2.
- M. Smatana Mladá Boleslav ČR 21. - 22. 2.
- J. Paralič Praha ČR 5. 3.
- K. Machová Barcelona Španielsko 19. - 23. 3.
- Ľ. Pusztová Hradec Králové ČR 18. - 31. 3.
- M. Sarnovský Bratislava SR 4. - 5. 4.
- P. Sinčák Praha ČR 27. - 29. 3.
- J. Paralič Praha ČR 16. 4.
- D. Čupková Zurich Švajčiarsko 3. 4.
- D. Krokavec Paríž Francúzsko 23. - 27. 4.
- M. Bundzel Brusel Belgicko 2. - 4. 5.
- F. Babič Graz Rakúsko 9. - 11. 7.
- P. Sinčák Tokio Japonsko 1. - 7. 5.

- F. Babič Hradec Králové ČR 14. - 17. 6.
- F. Babič Bukurešť Rumunsko 25. - 27. 6.
- J. Ivančáková Praha ČR 22. - 24. 5.
- D. Krokavec Krakow Poľsko 26. - 29. 5.
- J. Ivančáková Viedeň Rakúsko 1. - 2. 6.
- D. Krokavec Kitakyushu Japonsko 7. - 15. 6.
- P. Sinčák Gent Belgicko 30. 6. - 3. 7.
- P. Sinčák Miškolc Maďarsko 24. 6.
- J. Magyar Miškolc Maďarsko 24. 6.
- M. Bundzel Nagoja/Tokio Japonsko 23. 5. - 8. 6.
- P. Bednár Nagoja/Tokio Japonsko 23. 5. - 8. 6.
- M. Sarnovský Osaka/Kyoto Japonsko 17.-30. 6.
- D. Krokavec Grenoble Francúzsko 1. - 5. 7.
- P. Butka Olomouc ČR 30. 6. - 4. 7.
- M. Jaščur Budapešť Maďarsko 3. - 5. 7.
- M. Jaščur Berlín Nemecko 22. - 27. 7.
- I. Zolotová Ostrava ČR 1. - 2. 7.
- P. Papcun Ostrava ČR 1. - 2. 7.
- E. Kajáti Ostrava ČR 1. - 2. 7.
- D. Čupková Ostrava ČR 1. - 2. 7.
- P. Sinčák Budapešť Maďarsko 14. - 17. 7.
- P. Sabol Budapešť Maďarsko 14. - 19. 7.
- Fouzia Adjailia Mníchov Nemecko 14. - 21. 7.
- D. Čupková Thessaloniki Grécko 24. - 31. 8.
- E. Kajáti Thessaloniki Grécko 24. - 31. 8.
- J. Paralič Canterbury Veľká Británia 25. 8. - 1. 9.
- F. Babič Canterbury Veľká Británia 25. - 30. 8.
- L. Pusztová Canterbury Veľká Británia 25. - 30. 8.
- P. Papcun Austin USA 31. 8. - 7. 9.
- P. Sinčák Miškolc Maďarsko 24. - 26. 7.
- F. Babič Ohrid Severné Macedónsko 15. - 18. 10.
- J. Vaščák Bratislava SR 13. - 14. 8.
- P. Sinčák Bratislava SR 20. - 22. 8.
- P. Sinčák Helsinki Fínsko 17. - 21. 9.
- P. Sinčák Chengdu Čína 29. 10. - 13. 11.
- M. Bundzel Lisabon Portugalsko 4. 9. - 5. 10.
- J. Paralič Vroclav Poľsko 15. - 17. 9.
- I. Zolotová Harrachov ČR 3. - 6. 9.
- P. Butka Rijeka Chorvátsko 8. - 13. 9.
- K. Machová Vroclav Poľsko 15. - 17. 9.
- P. Sinčák Bari Taliansko 3. - 9. 10.
- J. Magyar Bari Taliansko 3. - 12. 10.
- J. Jadlovský Ženeva Švajčiarsko 1. - 3. 10.
- S. Jadlovská Ženeva Švajčiarsko 1. - 3. 10.
- P. Bednár Hochkar Rakúsko 1. - 4. 10.
- M. Sarnovský Hochkar Rakúsko 1. - 4. 10.
- M. Smatana Hochkar Rakúsko 1. - 4. 10.
- J. Ivančáková Hochkar Rakúsko 1. - 4. 10.
- J. Vaščák Sinaia Rumunsko 29. 10. - 3. 11.
- D. Čupková Kodaň Dánsko 29. 10. - 3. 11.

- E. Kajáti Kodaň Dánsko 29. 10. - 3. 11.
- F. Babič Bilbao Španielsko 29. 10. - 1. 11.
- L. Pomšár Orlando USA 1. - 11. 11.
- A. Březina Ženeva Švajčiarsko 10. - 20. 10.
- M. Tkáčik Ženeva Švajčiarsko 10. - 20. 10.
- K. Machová Miškolc Maďarsko 18. 10.
- P. Butka Szeged Maďarsko 13. - 16. 11.
- M. Sarnovský Szeged Maďarsko 13. - 16. 11.
- D. Krokavec Bologna Taliansko 20. - 23. 11.
- A. Březina Ženeva Švajčiarsko 6. - 15. 12.
- M. Tkáčik Ženeva Švajčiarsko 6. - 15. 12.
- L. Koska Ženeva Švajčiarsko 9. - 13. 12.
- D. Krokavec Nice Francúzsko 10. - 14. 12.

7 THESES

Thesis type	Bachelor	Master	Doctoral
Number	88	64	4

8 OTHER ACTIVITIES

- Data and Knowledge & WIKT 2019 (Data a Znalosti & WIKT – Workshop on Intelligent Knowledge Technologies 2019): was held in October 10-11, 2019 in Košice, Slovakia

9 PUBLICATIONS

9.1. Books

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9.2 Other publications

Publication Type	Confereces		Other
	Foreign	Home	
Number	25	31	24