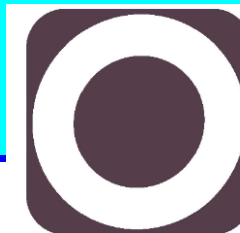


DEPARTMENT OF CYBERNETICS AND ARTIFICIAL INTELLIGENCE

kkui.fej.tuke.sk
Tel./Fax: ++421 55 6022575

Head of Department
Assoc. Prof. Ing. Peter Papcun, PhD.
E-mail: peter.papcun@tuke.sk



1 DEPARTMENT'S PROFILE

The Department of Cybernetics and Artificial Intelligence (DCAI) is responsible for education in two study programs: Intelligent Systems (bachelor, master, and PhD), and Business Informatics (bachelor and master), and cooperates on the PhD program in Computer Science.



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 15 internal PhD. students. The Department is involved in a number of research and educational projects (see below).

2 STAFF

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

Associate Professors:

doc. Ing. František Babič, PhD.
doc. Ing. Peter Bednár, 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. Peter Papcun, PhD.
doc. Dr. Ing. Ján Vaščák

Assistant Professors:

Ing. Anna Biceková, PhD.
Ing. Erik Kajáti, PhD.
Ing. Ján Magyar, PhD.
Ing. Martin Sarnovský, PhD.
Ing. Martina Szabóová, PhD.

Researchers:

Ing. Maroš Hliboký
Ing. Viera Maslej Krešňáková, PhD.

Technical Staff:

Tatiana Baňasová
Ing. Lenka Ličková

Ph.D. Students (internal):

1st. Ing. Viliam Balara

2nd. Ing. Nikola Hrabovská
Ing. Lenka Kališková
Ing. Maroš Krupáš
Ing. Miroslava Matejová
Ing. Ľubomír Urbík

3rd. Ing. Tomáš Adam
Ing. Alexander Brecko
Ing. Dušan Herich
Ing. Maroš Hliboký
Ing. Stanislav Husár
Ing. Oliver Lohaj
Ing. Kristián Mičko
Ing. Tomáš Tkáčik
Ing. Jakub Ivan Vanko
Ing. Dominik Vranay

Ph.D. Students (external):

1st. Ing. Radovan Kavický
Ing. Peter Pisarčík
Ing. Matúš Smolko
Ing. Maroš Stredanský

3rd. Ing. Jozef Rešetár
Ing. Dušan Zagata

4th. Ing. Miroslava Hrešková

5th. Ing. Ladislav Pomšár

3 RESEARCH TEAMS

- **Data science** – primarily focused on methods and models for analysis of different types of data, including big data, various aspects of data analytic models and processes in different application domains.
(<https://hi.kkui.fei.tuke.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.fei.tuke.sk/laben/>)

- **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/IIoT 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/>)

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	Bundzel, Papcun
Introduction to Business Informatics	2 nd	1/2	Paralič, Babič
Industry 4.0.	2 nd	2/2	Zolotová, Kajáti
Programming in Python	2 nd	2/2	Magyar
Basics of economics	2 nd	2/2	Biceková
Industrial informatics in applications	3 rd	2/2	Jadlovská
Intelligent Space and IoT	3 rd	2/2	Papcun
Simulation Systems	3 rd	2/2	Jadlovská
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
Analysis and Design of Information Systems 1.	3 rd	2/2	Babič, Sarnovský M.
Artificial Intelligence	3 rd	2/2	Sinčák, Machová
Programming in C#	3 rd	2/2	Magyar
Application of database systems	4 th	2/2	Kajáti
Analysis and Design of Information Systems 2.	4 th	1/2	Bednár
Sensors and actuators	4 th	2/2	Jadlovský
Knowledge-Based Systems	4 th	2/2	Machová
Intelligent systems and mobile robotics	4 th	2/2	Vaščák
Fuzzy Systems	4 th	2/2	Vaščák
Neural Networks	4 th	2/2	Sinčák
Supervision Systems and HMI	4 th	2/2	Zolotová, Kajáti
Machine Learning	4 th	2/2	Machová
Scheduling and Logistics	4 th	2/2	Paralič
Languages for Data Analytics	4 th	2/2	Butka
Intelligent Robotics	5 th	2/2	Papcun
Business Analytics	5 th	2/2	Butka
Application of logic in intelligent systems	5 th	2/2	Mach
Computer Systems	5 th	2/2	Jadlovský
Computer Vision	5 th	2/2	Bundzel
Subject	Semester	Lectures/exercises (hours per week)	Name of lecturer
Computer Systems in Control	5 th	2/2	Jadlovský

Optimization in Economic Processes	5 th	2/2	Filasová
Development of intelligent mobile solutions	5 th	2/2	Babič, Butka
Business Informatics in practice	6 th	2/2	Babič
Machine Learning II	6 th	2/2	Mach
IT Management	6 th	2/2	Sarnovský M.
Repetition of the field of study	6 th	2/2	Papcun, Szabóová
Fundamentals of cloud technologies	6 th	1/2	Zolotová

4.2 Graduate Study (Ing.)

Subject	Semester	Lectures/exercises (hours per week)	Name of lecturer
Team Project	1 st	0/3	Zolotová
Multiagent and network control systems	1 st	2/2	Kajáti
Architectures of Industrial Information Systems	1 st	2/2	Zolotová, Papcun
Knowledge Discovery	1 st	2/2	Paralič
Fundamentals of Deep Learning	1 st	2/2	Sinčák
Heuristic Optimization Processes	1 st	2/2	Mach
Mathematics for intelligent systems	1 st	2/2	Szabóová
Engineering Econometrics	1 st	2/2	Krokavec
Control and Artificial Intelligence	2 nd	2/2	Jadlovská
Technologies for Big Data Processing	2 nd	2/2	Bednár, Sarnovský M.
Hybrid Computational Intelligence	2 nd	2/2	Vaščák
Evolutionary Algorithms	2 nd	2/2	Mach
Distributed Control Systems	2 nd	2/2	Jadlovský
Machine Learning	2 nd	2/2	Machová
Current trends in Business Informatics	2 nd	2/1	Babič, Paralič
Knowledge Management	3 rd	2/2	Paralič, Bednár
Management Information Systems	3 rd	2/2	Jadlovský
Navigation methods in robotics	3 rd	2/2	Vaščák
Advanced Methods of Computer Vision	3 rd	2/2	Bundzel
Semantic and Social Web	3 rd	2/2	Machová
Languages for Intelligent Systems	3 rd	2/2	Mach
Advanced Methods for Data Analysis	3 rd	1/2	Bednár
Main Knowledge of the Field Intelligent Systems and Their Use	4 th	0/2	Zolotová
Main Knowledge of the Field of Business Informatics and Their Use	4 th	0/2	Butka

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, project leader for TUKE: Marek Bundzel

- **ALICE experiment at the CERN LHC: The study of strongly interacting matter under extreme conditions** (*Experiment ALICE na LHC v CERNe: Štúdium silno interagujúcej hmoty v extrémnych podmienkach*), ALICE TUKE - No. 0410/2022, Agreement for the co-financing of the ALICE CERN research and development project for duration: 2022 - 2026, members: Ján Jadlovský (project leader, Team leader TUKE-CERN), Anna Jadlovská, Slávka Jadlovská (Deputy Team Leader TUKE-CERN), Tomáš Tkáčik, Dominika Lišková, Filip Pazdič, Mikuláš Kožlej, Michal Klima
- **Feasibility study of data-driven Autonomous Service for Prediction of Ionospheric Scintillations (ASPIS)**, granted by European Space Agency (ESA), 6th PECS Call, contract no. 400137046/22/NL/SC, TUKE as subcontractor (prime contractor: Institute of Experimental Physics, Slovak Academy of Sciences) duration: 2022 – 2023, members from TUKE: Peter Butka (project/team leader for TUKE), Viera Krešňáková
- **Proposal for Slovak universities curriculum adaptation toward S2P market (SK-S2P-Edu)**, granted by European Space Agency (ESA), 7th PECS Call, contract no. 4000139660/22/NL/SC/rp, TUKE as prime contractor, duration: 2022-2024, project leader: Peter Butka, other members from TUKE: Martin Sarnovský, Viera Krešňáková
- **EPIC - EP Innovation centre**, 2023, project leaders: Erik Kajáti, Iveta Zolotová
- **Processing and analysis of ultrasonographic video recordings using artificial intelligence**, Slovak Research and Development Agency project no. APVV-20-0232, duration: 2021 – 2024, members: František Babič (project leader), Marek Bundzel, Ján Magyar, Ján Paralič, Martina Szabóová, Martin Sarnovský, Michal Kolárik, Viera Anderková, Maroš Hliboký
- **Modermed: Multimodal Detection of Toxic Behaviour in Social Media**, Slovak Research and Development Agency project no. APVV-23-0414, duration: 2023 – 2027, members: Kristína Machová (project leader), Ján Paralič, Marián Mach, František Babič, Peter Bednár, Peter Butka, Martin Sarnovský, Martina Szabóová, Michal Kolárik, Oliver Lohaj, Jakub Ivan Vanko, Tomáš Adam, Miroslava Matejová
- **ENISaC - Edge eNabled Intelligent Sensing and Computing**, Slovak Research and Development Agency project no. APVV-20-0247, duration: 2021-2025, members: Iveta Zolotová (project leader), Peter Papcun, Jan Vaščák, Erik Kajáti, Alexander Brecko, Kristián Mičko, Dušan Herich, Ľubomír Urblik, Maroš Krupáš
- **EDEN - Edge-enabled intelligent systems**, , Scientific Grant Agency project No. 1/0480/22, duration: 2022 - 2025, members: Peter Papcun (project leader), Iveta Zolotová, Ján Vaščák, Erik Kajáti, Alexander Brecko, Kristián Mičko, Dušan Herich, Ľubomír Urblik, Maroš Krupáš
- **Distributed fault diagnosis of structural non-distributed systems**, Scientific Grant Agency project No. 1/0483/21, duration: 2021 – 2023, members: Dušan Krokavec (project leader), Anna Filasová
- **Intepretable data analysis models to support decision making**, Scientific Grant Agency project No. 1/0685/21, duration: 2021 – 2024, members: Ján Paralič (project leader), František Babič, Kristína Machová, Peter Butka,

Peter Bednár, Martin Samovský, Miroslav Smatana, Viera Maslej Krešňáková, Anna Biceková, Zuzana Pella, Ľudmila Pusztová, Juliana Ivančáková, Michal Kolárik, Viera Anderková, Oliver Lohaj, Jakub Ivan Vanko, Tomáš Adam, Miroslava Pavlusová, Lenka Kališková

- **Basic research on deep learning methods for image processing (DL4VISION)**, Scientific Grant Agency project No. 1/0394/22, duration: 2022 – 2025, project leader: Peter Sinčák
- **Research of advanced data-analytical models for the analysis of the influence of various factors on the course of the COVID-19 disease and their usability**, Scientific Grant Agency project No. 1/0259/24, duration: 2024 – 2027, members: František Babič (project leader), Ján Paralič, Peter Bednár, Anna Biceková, Michal Kolárik, Viera Anderková, Miroslava Matejová, Oliver Lohaj, Jakub Ivan Vanko
- **Drones for the future: practical education and research (DronEd)**, 2023 – 2024, TatraBanka foundation, members: Erik Kajáti (project leader), Peter Papcun, Maroš Krupáš, Ľubomír Urbík
- **ArtiPark 2 - Artificial Parkinson**, 2022 – 2023, TatraBanka foundation, members: Michal Podžuban (project leader), Ladislav Pomšár, Iveta Zolotová, Erik Kajáti, Peter Papcun
- **Siemens Heathineers - Intelligent Health Lab**, 2019 – 2023, Iveta Zolotová (project leader), Ladislav Pomšár, Peter Papcun, Erik Kajáti, Ján Vaščák, Alexander Brecko
- **AIT-HMC-15.0 - AI based approaches and enabling IT technology for human-machine collaboration in Industry 5.0**, 2023, TUKE grant, members: Maroš Krupáš (project leader), Ľubomír Urbík, Saahil Chand
- **Indoor localization and navigation using UWB technology**, 2023, FEI grant, members: Ľubomír Urbík (project leader), Dušan Herich, Kristián Genčúr, Filip Havel, Matej Lábaj
- **National scholarship program - SAIA 2023** - University of Auckland, New Zealand, awarded Maroš Krupáš
- **Support in the field of education and research activity**, Siemens Healthcare, a.s. Bratislava, 2021 – 2024, project leader: Iveta Zolotová
- **Support in the field of education and research activity**, BETAMONT s.r.o. Zvolen, 2022 – 2024, project leader: Peter Papcun

6 **CO-OPERATION**

6.1 **Co-operation in Slovakia**

- Department of Automatic Control Systems Bratislava, Slovak University of Technology, Bratislava
- Faculty of Informatics and Information Technologies, Slovak University of Technology in Bratislava
- Institute of Computer Science, University of P.J. Šafárik, Košice

- Institute of Physics, University of P.J. Šafárik, Košice
- Kempelen Institute of Intelligent Technologies, Bratislava
- Institute of Computer Science, Slovak Academy of Sciences in Bratislava
- Department of Biophysics IEP Slovak Academy of Science
- 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
- Division of Astronomy and Astrophysics, Faculty of Mathematics, Physics and Informatics, Comenius University, Bratislava, including their owned and operated Astronomical and Geophysical observatory in Modra
- Department of Control and Information Systems, Faculty of Electrical Engineering, University of Zilina
- Accenture Košice
- Americká obchodná komora na Slovensku
- Astros Solutions s.r.o., Bratislava
- bart.sk Košice
- Betamont Slovakia
- BSH, Michalovce
- 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
- Magna Powertrain, 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
- 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, 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,
- Samovský, J.: INESInternational Network of Engineers and Scientists for Global Responsibility
- Samovský, J.: Principia Cybernetica Web PRNCYB-L
- Samovský, J.: SWISSupplementary 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
- Butka, P.: Slovak Astronomical Society at the Slovak Academy of Sciences
- Filasová, A.: Slovak Society for Cybernetics and Informatics
- Krokavec, D.: Slovak Electrical Engineering Society
- Jadlovská, A; Ocelíková, E.; Samovský, J.: Slovak Society for Cybernetics and Informatics
- Paralič, J.: Slovak Society for Computer Science

6.5 International Networks and Exchange Programs

- 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

- -

6.7 Visits of Staff Members to Foreign Institutions

- J. Magyar, Helsinky, Fínsko, 5.-9.2.
- M. Szabóová, Helsinky, Fínsko, 5.-9.2.
- MEng. D. Vranay, Helsinky, Fínsko, 5.-9.2.
- P. Papcun, Budapešť, Maďarsko, 14.-15. 2.
- M. Bundzel, Sevilla, Španielsko, 2.4.-5.5.
- M. Hliboký, Nice, Francúzsko, 20.-23.3.
- T. Tkáčik, Ženeva, Švajčiarsko, 25.3.-6. 4.
- P. Sinčák, Miškolc, Maďarsko, 5.4.
- P. Sinčák, Pécs, Maďarsko, 25.-26.4.
- P. Sinčák, Miškolc, Maďarsko, 4.-5.5.
- P. Papcun, Veszprém, Maďarsko, 21.-24.5.
- P. Papcun, Ostrava, ČR, 8.-9.6.
- O. Lohaj, Tallin, Estónsko, 14.-28.7.
- J. I. Vanko, Tallin, Estónsko, 14.-28.7.
- D. Herich, Praha, ČR, 18.-21.6.
- D. Krokavec, Praha, ČR, 15.-17.6.
- T. Tkáčik, Ženeva, Švajčiarsko, 26.6.-16.7.
- M. Hliboký, Praha, ČR, 18.-21.6.
- K. Machová, Sevilla, Španielsko, 27.6.-1.7.
- M. Bundzel, Uaxactun, Guatemala, 19.7.-20.9.
- M. Krupáš, Auckland, Nový Zéland, 12.8.-15.10.

- Ľ. Urblík, Auckland, Nový Zéland, 12.8.-12.9.
- D. Krokavec, Lefkada Island, Grécko, 5.-12.8.
- K. Machová, Lisabon, Portugalsko, 8.9.-10.10.
- M. Mach, Lisabon, Portugalsko, 8.9.-10.10.
- N. Hrabovská, Londýn, Veľká Británia, 9.-19.9.
- J. Magyar, Tokio, Japonsko, 26.8.-4.9.
- P. Bednár, Tokio, Japonsko, 26.8.-4.9.
- T. Tkáčik, Ženeva, Švajčiarsko, 15.-24.9.
- A. Jadlovská, Ostrava, ČR, 4.-7.9.
- Dr. J. Vaščák, Pula, Chorvátsko, 19.-24.9.
- P. Papcun, Brno, ČR, 4.10.
- M. Hliboký, Tokio, Japonsko, 12.10.-11.1.
- P. Bednár, Ludwigsburg, Nemecko, 16.-18.10.
- Dr. J. Vaščák, Da Nang, Vietnam, 22.-28.10.
- T. Tkáčik, Ženeva, Švajčiarsko, 30.10.-19.11.
- P. Sinčák, Budapešť, Maďarsko, 6.11.
- P. Sinčák, Miškolc, Maďarsko, 10.-10.11.
- A. Biceková, Budapešť, Maďarsko, 20.-21.11.
- M. Szabóová, Budapešť, Maďarsko, 20.-21.11.
- L. Kališková, Budapešť, Maďarsko, 20.-21.11.
- M. Bundzel, Trondheim, Nórsko, 25.11.-17.12.
- P. Sinčák, Miškolc, Maďarsko, 14.12.

7 THESES

Thesis type	Bachelor	Master	Doctoral
Number	108	55	5

8 OTHER ACTIVITIES

- Picnic TUKE 2023
- Open day TUKE 2023
- World Robot Olympiad 2023 – organization of Slovak national round and participation at the world final as judge

9 PUBLICATIONS

9.1. Journals

- [1] MIKULECKÝ, Peter - PUNČOCHÁŘOVÁ, Anna - BABIČ, František - BUREŠ, Vladimír - ČECH, Pavel - HUSÁKOVÁ, Martina - MLS, Karel - NACHÁZEL, Tomáš - PONCE, Daniela - ŠTEKEROVÁ, Kamila - TRIANTAFYLLOU, Ioanna - TUČNÍK, Petr - SUNANDA, Vijaya - ZANKER, Marek: Dealing with risks associated with tsunamis using indigenous knowledge approaches / - 2023. In: International Journal of Disaster Risk Reduction. - Amsterdam (Holandsko) : Elsevier Science Roč. 86 (2023), s. [1-21] [online]. - ISSN 2212-4209 (online)
- [2] PARALIČ, Ján - KOLÁRIK, Michal - PARALIČOVÁ, Zuzana - LOHAJ, Oliver: Perturbation-based explainable ai for ecg sensor data / - 2023. In: Applied

- sciences. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 13, č. 3 (2023), s. [1-13] [online]. - ISSN 2076-3417 (online)
- [3] KROKAVEC, Dušan - FILASOVÁ, Anna: State estimation of positive switched interval systems with metzler–takagi–sugeno fuzzy models / - 2023. In: Machines. - Basel (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 11, č. 2 (2023), s. [1-17] [online]. - ISSN 2075-1702 (online)
- [4] HLIBOKÝ, Maroš - MAGYAR, Ján - BUNDZEL, Marek - MALÍK, Marek - ŠTEVÍK, Martin - VETEŠKOVÁ, Štefánia - DZIAN, Anton - SZABÓOVÁ, Martina - BABIČ, František: Artifact Detection in Lung Ultrasound: An Analytical Approach / - 2023. In: Electronics. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 12, č. 7 (2023), s. [1-17] [online]. - ISSN 2079-9292 (online)
- [5] KOLÁRIK, Michal - SARNOVSKÝ, Martin - PARALIČ, Ján - BABIČ, František: Explainability of deep learning models in medical video analysis: a survey / - 2023. In: PeerJ. Computer science. - San Francisco (USA) : PeerJ INC, 2015 Roč. 9, č. January 4 (2023), s. [1-39] [online]. - ISSN 2376-5992 (online)
- [6] MIČKO, Kristián - PAPCUN, Peter - ZOLOTOVÁ, Iveta: Review of IoT sensor systems used for monitoring the road infrastructure / - 2023. In: Sensors. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 23, č. 9 (2023), s. [1-26] [online, print]. - ISSN 1424-3210
- [7] KROKAVEC, Dušan - FILASOVÁ, Anna: Interval observers for switched Metzler-Takagi-Sugeno fuzzy systems / - 2023. In: WSEAS Transactions on Systems and Control. - Athens (Grécko) : World Scientific and Engineering Academy and Society Roč. 18, č. 1 (2023), s. 95-101 [print]. - ISSN 1991-8763
- [8] KROKAVEC, Dušan - FILASOVÁ, Anna: Interval observers design for systems with ostensible metzler system matrices / - 2023. In: Frontiers in Aerospace Engineering. - Lausanne (Švajčiarsko) : Frontiers Media Roč. 2, č. 1 (2023), s. [1-10] . - ISSN 2813-2831 (online)
- [9] KOLÁRIK, Michal - SARNOVSKÝ, Martin - PARALIČ, Ján: Detecting the Absence of Lung Sliding in Ultrasound Videos Using 3D Convolutional Neural Networks / - 2023. In: Acta Polytechnica Hungarica : An international peer-reviewed scientific journal of Óbuda University, Hungarian Academy of Engineering and IEEE Hungary Section : journal of applied sciences. - Budapešt (Maďarsko) : Óbudai Egyetem Roč. 20, č. 6 (2023), s. 47-60 [print, online]. - ISSN 1785-8860
- [10] ŠATALA, Pavol - BUTKA, Peter - SAMAIEV, Arsen - LEVICKÁ, Petra: Cueing of parkinson's disease patients by standard smart devices and deep learning approach / - 2023. In: Acta Polytechnica Hungarica : An international peer-reviewed scientific journal of Óbuda University, Hungarian Academy of Engineering and IEEE Hungary Section : journal of applied sciences. - Budapešt (Maďarsko) : Óbudai Egyetem Roč. 20, č. 2 (2023), s. 165-184 [print, online]. - ISSN 1785-8860
- [11] HRABOVSKÁ, Nikola - KAJÁTI, Erik - ZOLOTOVÁ, Iveta: A validation study to confirm the accuracy of wearable devices based on health data analysis / - 2023. In: Electronics. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 12, č. 11 (2023), s. [1-20] [online]. - ISSN 2079-9292 (online)
- [12] TKÁČIK, Miľan - JADLOVSKÝ, Ján - JADLOVSKÁ, Slávka - JADLOVSKÁ, Anna - TKÁČIK, Tomáš: Modeling and analysis of distributed control systems: proposal of a methodology / Milan Tkáčik ... [et al.] - 2024. In: Processes. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 12, č. 1 (2024), s. [1-20] [online]. - ISSN 2227-9717 (online)
- [13] TKÁČIK, Milan - JADLOVSKÝ, Ján - JADLOVSKÁ, Slávka: Metódy a prostriedky pre návrh, modelovanie a realizáciu distribuovaných systémov

- riadenia veľkých fyzikálnych experimentov / - 2023. In: QuoVadis Research @ FEI. - Košice (Slovensko) : Technická univerzita v Košiciach, 2023 Roč. 6, č. 1 (2023), s. 131-140 [print, online]. - ISSN 2585-9587
- [14] FELIZARDO, Virginie - GARCIA, Nuno M. - MEGDICHE, Imen - POMBO, Nuno - SOUSA, Migel - BABIČ, František: Hypoglycaemia prediction using information fusion and classifiers consensus / - 2023. In: Engineering applications of artificial intelligence : the international journal of intelligent real-time automation. - Swansea (Veľká Británia) : Pineridge Periodicals Roč. 123 (2023), s. [1-12] [print]. - ISSN 0952-1976
- [15] PONCE, Daniela - HUSÁKOVÁ, Martina - NACHÁZEL, Tomáš - BUREŠ, Vladimír - ČECH, Pavel - MIKULECKÝ, Peter - ŠTEKEROVÁ, Kamila - TUČNÍK, Petr - ZANKER, Marek - MLS, Karel - TRIANTAFYLLOU, Ioanna - BABIČ, František: Unification of tsunami-related terminology: ontology engineering perspective / - 2023. In: Computers and Geosciences. - Amsterdam (Holandsko) : Elsevier Roč. 178 (2023), s. [1-15] [print]. - ISSN 0098-3004
- [16] MLS, Karel - KOŘÍNEK, Milan - ŠTEKEROVÁ, Kamila - TUČNÍK, Petr - BUREŠ, Vladimír - ČECH, Pavel - HUSÁKOVÁ, Martina - MIKULECKÝ, Peter - NACHÁZEL, Tomáš - PONCE, Daniela - ZANKER, Marek - BABIČ, František - TRIANTAFYLLOU, Ioanna: Agent-based models of human response to natural hazards: systematic review of tsunami evacuation / - 2023. In: Natural Hazards. - New York (USA) : Springer Roč. 115, č. 3 (2023), s. 1887-1908 [print, online]. - ISSN 0921-030X
- [17] ČECH, Pavel - MATTOŠ, Martin - ANDERKOVÁ, Viera - BABIČ, František - ALHASNAWI, Bilal Naji - BUREŠ, Vladimír - KOŘÍNEK, Milan - ŠTEKEROVÁ, Kamila - HUSÁKOVÁ, Martina - ZANKER, Marek - MANNEELA, Sunanda - TRIANTAFYLLOU, Ioanna: Architecture-oriented agent-based simulations and machine learning solution: the case of tsunami emergency analysis for local decision makers / - 2023. In: Information. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 14, č. 3 (2023), s. [1-20] [online]. - ISSN 2078-2489 (online)
- [18] BOSNIC, Zvonimir - BABIČ, František - ANDERKOVÁ, Viera - ŠTEFANIĆ, Mario - WITTLINGER, Thomas - TRTICA MAJNARIĆ, Ljiljana: A critical appraisal of the diagnostic and prognostic utility of the anti-inflammatory marker il-37 in a clinical setting: a case study of patients with diabetes type 2 / - 2023. In: International journal of environmental research and public health : open access journal. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 20, č. 4 (2023), s. [1-19] [online, print]. - ISSN 1661-7827
- [19] KROKAVEC, Dušan: Ostensible metzler linear uncertain systems: goals, lmi synthesis, constraints and quadratic stability / - 2023. In: WSEAS Transactions on Systems and Control. - Athens (Grécko) : World Scientific and Engineering Academy and Society Roč. 18, č. 1 (2023), s. 255-262 [print]. - ISSN 1991-8763
- [20] HUSÁR, Stanislav - BUNDZEL, Marek - HLIBOKÝ, Maroš - KARDOŠ, Slavomír - FERENČÍK, Norbert: Advanced Prototype of Manus Diagnostics and Rehabilitation Device / - 2023. In: Acta Electrotechnica et Informatica. - Košice (Slovensko) : Fakulta elektrotechniky a informatiky Roč. 23, č. 1 (2023), s. 32-40 [print, online]. - ISSN 1335-8243
- [21] KOZLOVSKÁ, Mária - PETKANIČ, Štefan - VRANAY, František - VRANAY, Dominik: Enhancing energy efficiency and building performance through bems-bim integration / - 2023. In: Energies. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 16, č. 17 (2023), s. [1-23] [online]. - ISSN 1996-1073 (online)
- [22] URBLÍK, Ľubomír - KAJÁTI, Erik - PAPCUN, Peter - ZOLOTOVÁ, Iveta: A

- modular framework for data processing at the edge: design and implementation / - 2023. In: Sensors. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 23, č. 17 (2023), s. [1-25] [online, print]. - ISSN 1424-3210
- [23] HRONCOVÁ, Darina - ŠARGA, Patrik - SINČÁK, Peter - MERVA, Tomáš - BRADA, Leo: Inverse and forward kinematics and dynamics of a two link robot arm / - 2023. In: MM Science Journal. - Praha (Česko) : MM Publishing Roč. 2023-December (2023), s. 7085-7092 [print, online]. - ISSN 1803-1269
- [24] KROKAVEC, Dušan - FILASOVÁ, Anna: Data Driven, Additive Fault Detection for Wind Turbines / - 2023. In: Acta Polytechnica Hungarica : An international peer-reviewed scientific journal of Óbuda University, Hungarian Academy of Engineering and IEEE Hungary Section : journal of applied sciences. - Budapešť (Maďarsko) : Óbudai Egyetem Roč. 20, č. 11 (2023), s. 83-96 [print, online]. - ISSN 1785-8860
- [25] MACHOVÁ, Kristína - SZABÓOVÁ, Martina - PARALIČ, Ján - MIČKO, Ján: Detection of emotion by text analysis using machine learning / - 2023. In: Frontiers in psychology. - Lausanne (Švajčiarsko) : Frontiers Media, 2010 Roč. 14 (2023), s. [1-14] [online]. - ISSN 1664-1078 (online)
- [26] LOHAJ, Oliver - PARALIČ, Ján - BEDNÁR, Peter - PARALIČOVÁ, Zuzana - HUBA, Matúš: Unraveling COVID-19 Dynamics via Machine Learning and XAI: Investigating Variant Influence and Prognostic Classification / - 2023. In: Machine learning and knowledge extraction. - Basel (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 5, č. 4 (2023), s. 1266-1281 [online]. - ISSN 2504-4990 (online)
- [27] ACHARYA, Shreyasi - ADAMOVIČ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Study of the p–p–K + and p–p–K - dynamics using the femtoscopy technique / ALICE Collaboration - 2023. In: The European Physical Journal A : Hadrons and Nuclei. - Berlín (Nemecko) : Springer International Publishing AG Roč. 59, č. 12 (2023), s. [1-14] [print, online]. - ISSN 1434-6001
- [28] ACHARYA, Shreyasi - ADAMOVIČ, Dagmar - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - AGRAWAL, N. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Probing the chiral magnetic wave with charge-dependent flow measurements in Pb-Pb collisions at the LHC / ALICE Collaboration - 2023. In: Journal of High Energy Physics = JHEP. - New York (USA) : Springer International Publishing AG č. 12 (2023), s. [1-29] [online, print, CD-ROM]. - ISSN 1126-6708
- [29] ACHARYA, Shreyasi - ADAMOVIČ, Dagmar - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - AGRAWAL, N. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Measurement of non-prompt D0-meson elliptic flow in Pb–Pb collisions at sNN=5.02 TeV / ALICE Collaboration - 2023. In: European Physical Journal C : Particles and Fields. - Berlín (Nemecko) :

- Springer International Publishing AG Roč. 83, č. 12 (2023), s. [1-17] [print, online]. - ISSN 1434-6044
- [30] MALÍK, Marek - DZIAN, Anton - ŠTEVÍK, Martin - VETEŠKOVÁ, Štefánia - AL HAKIM, Abdulla - HLIBOKÝ, Maroš - MAGYAR, Ján - KOLÁRIK, Michal - BUNDZEL, Marek - BABIČ, František: Lung Ultrasound Reduces Chest X-rays in Postoperative Care after Thoracic Surgery: Is There a Role for Artificial Intelligence? systematic Review/ - 2023. In: Diagnostics. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute, 2011 Roč. 13, č. 18 (2023), s. [1-17] [online]. - ISSN 2075-4418 (online)
- [31] ACHARYA, Shreyasi - ADAMOVIČOVÁ, Dagmar - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - AGRAWAL, N. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Study of flavor dependence of the baryon-to-meson ratio in proton-proton collisions at $s=13$ TeV / ALICE Collaboration - 2023. In: Physical Review D. - College Park (USA) : American Institute of Physics Roč. 108, č. 11 (2023), s. [1-19] [print, online]. - ISSN 2470-0010
- [32] ACHARYA, Shreyasi - ADAMOVIČOVÁ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Higher-order correlations between different moments of two flow amplitudes in Pb-Pb collisions at $s_{NN}=5.02$ TeV / ALICE Collaboration - 2023. In: Physical Review C : Nuclear Physics. - College Park (USA) : American Physical Society Roč. 108, č. 5 (2023), s. [1-21] [print, online, CD-ROM]. - ISSN 2469-9985
- [33] ACHARYA, Shreyasi - ADAMOVIČOVÁ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - JADLOVSKÝ, Ján - JADLOVSKÁ, Slávka - TKÁČIK, Milan - TKÁČIK, Tomáš: Measurement of beauty-strange meson production in Pb-Pb collisions at $s_{NN}=5.02$ TeV via non-prompt D_s^+ mesons / - 2023. In: Physics Letters B : Particle Physics, Nuclear Physics and Cosmology. - Amsterdam (Holandsko) : Elsevier č. 846 (2023), s. [1-16] [print, online]. - ISSN 0370-2693
- [34] ACHARYA, Shreyasi - ADAMOVIČOVÁ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Measurement of inclusive J/ψ pair production cross section in pp collisions at $s=13$ TeV / ALICE Collaboration - 2023. In: Physical Review C : Nuclear Physics. - College Park (USA) : American Physical Society Roč. 108, č. 4 (2023), s. [1-13] [print, online, CD-ROM]. - ISSN 2469-9985
- [35] ACHARYA, Shreyasi - ADAMOVIČOVÁ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK,

- Milan - TKÁČIK, Tomáš: Energy dependence of coherent photonuclear production of J/psi mesons in ultra-peripheral Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV / ALICE Collaboration - 2023. In: Journal of High Energy Physics = JHEP. - New York (USA) : Springer International Publishing AG č. 10 (2023), s. [1-40] [online, print, CD-ROM]. - ISSN 1126-6708
- [36] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIHOVIĆ, Natálie - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Measurement of the non-prompt D-meson fraction as a function of multiplicity in proton-proton collisions at $\sqrt{s} = 13$ TeV / ALICE Collaboration - 2023. In: Journal of High Energy Physics = JHEP. - New York (USA) : Springer International Publishing AG č. 10 (2023), s. [1-32] [online, print, CD-ROM]. - ISSN 1126-6708
- [37] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIHOVIĆ, Natálie - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Pseudorapidity densities of charged particles with transverse momentum thresholds in pp collisions at $\sqrt{s} = 5.02$ and 13 TeV / ALICE Collaboration - 2023. In: Physical Review D. - College Park (USA) : American Institute of Physics Roč. 108, č. 7 (2023), s. [1-16] [print, online]. - ISSN 2470-0010
- [38] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - ADOLFSSON, Jonatan - DŽALAIHOVIĆ, Natálie - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan: Measurement of the production of (anti)nuclei in p-Pb collisions at $\sqrt{s_{NN}} = 8.16$ TeV / ALICE Collaboration - 2023. In: Physics Letters B : Particle Physics, Nuclear Physics and Cosmology. - Amsterdam (Holandsko) : Elsevier č. 846 (2023), s. [1-17] [print, online]. - ISSN 0370-2693
- [39] LOHAJ, Oliver - FEDÁČKO, Peter - PARALIČ, Ján: Usability of medical data analysis tool / - 2023. In: Acta Electrotechnica et Informatica. - Košice (Slovensko) : Fakulta elektrotechniky a informatiky Roč. 23, č. 4 (2023), s. 24-29 [print, online]. - ISSN 1335-8243
- [40] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIHOVIĆ, Natálie - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Measurements of azimuthal anisotropies at forward and backward rapidity with muons in high-multiplicity p-Pb collisions at $\sqrt{s_{NN}} = 8.16$ TeV / ALICE Collaboration - 2023. In: Physics Letters B : Particle Physics, Nuclear Physics and Cosmology. - Amsterdam (Holandsko) : Elsevier č. 846 (2023), s. [1-20] [print, online]. - ISSN 0370-2693
- [41] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIHOVIĆ, Natálie - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Elliptic flow of charged particles at midrapidity relative to the spectator plane in Pb-Pb and Xe-Xe collisions / ALICE

- Collaboration - 2023. In: Physics Letters B : Particle Physics, Nuclear Physics and Cosmology. - Amsterdam (Holandsko) : Elsevier č. 846 (2023), s. [1-15] [print, online]. - ISSN 0370-2693
- [42] ACHARYA, S. - ADAMOVIĆ, D. - ADLER, A. - AGLIERI RINELLA, G. - AGNELLO, M. - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš - PUGELOVÁ, Zuzana - DURKÁČ, Martin: First measurement of Ω_c production in pp collisions at $\sqrt{s}=13$ TeV / ALICE Collaboration - 2023. In: Physics Letters B : Particle Physics, Nuclear Physics and Cosmology. - Amsterdam (Holandsko) : Elsevier č. 846 (2023), s. [1-13] [print, online]. - ISSN 0370-2693
- [43] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Measurement of electrons from beauty-hadron decays in pp and Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV / ALICE Collaboration - 2023. In: Physical Review C : Nuclear Physics. - College Park (USA) : American Physical Society Roč. 108, č. 3 (2023), s. [1-24] [print, online, CD-ROM]. - ISSN 2469-9985
- [44] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Measurement of the Lifetime and Λ Separation Energy of $3\Lambda H$ / ALICE Collaboration - 2023. In: Physical Review Letters. - College Park (USA) : American Physical Society Roč. 131, č. 10 (2023), s. [1-13] [print, online]. - ISSN 0031-9007
- [45] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Accessing the strong interaction between lambda baryons and charged kaons with the femtoscopy technique at the LHC / ALICE Collaboration - 2023. In: Physics Letters B : Particle Physics, Nuclear Physics and Cosmology. - Amsterdam (Holandsko) : Elsevier č. 845 (2023), s. [1-15] [print, online]. - ISSN 0370-2693
- [46] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Multiplicity dependence of charged-particle production in pp, p-Pb, Xe-Xe and Pb-Pb collisions at the LHC / ALICE Collaboration - 2023. In: Physics Letters B : Particle Physics, Nuclear Physics and Cosmology. - Amsterdam (Holandsko) : Elsevier č. 845 (2023), s. [1-21] [print, online]. - ISSN 0370-2693
- [47] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal

- PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: System-size dependence of the charged-particle pseudorapidity density at $\sqrt{s_{NN}}=5.02$ TeV for pp, p-Pb, and Pb-Pb collisions / ALICE Collaboration - 2023. In: Physics Letters B : Particle Physics, Nuclear Physics and Cosmology. - Amsterdam (Holandsko) : Elsevier č. 845 (2023), s. [1-13] [print, online]. - ISSN 0370-2693
- [48] ACHARYA, Shreyasi - ADAMOVIČOVÁ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Azimuthal correlations of heavy-flavor hadron decay electrons with charged particles in pp and p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV / ALICE Collaboration - 2023. In: European Physical Journal C : Particles and Fields. - Berlín (Nemecko) : Springer International Publishing AG Roč. 83, č. 8 (2023), s. [1-30] [print, online]. - ISSN 1434-6044
- [49] ACHARYA, Shreyasi - ADAMOVIČOVÁ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: First measurement of the A-E interaction in proton-proton collisions at the LHC / ALICE Collaboration - 2023. In: Physics Letters B : Particle Physics, Nuclear Physics and Cosmology. - Amsterdam (Holandsko) : Elsevier č. 844 (2023), s. [1-13] [print, online]. - ISSN 0370-2693
- [50] ACHARYA, Shreyasi - ADAMOVIČOVÁ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Measurement of the Λ hyperon lifetime / ALICE Collaboration - 2023. In: Physical Review D. - College Park (USA) : American Institute of Physics Roč. 108, č. 3 (2023), s. [1-15] [print, online]. - ISSN 2470-0010
- [51] ACHARYA, Shreyasi - ADAMOVIČOVÁ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Closing in on critical net-baryon fluctuations at LHC energies: Cumulants up to third order in Pb-Pb collisions / ALICE Collaboration - 2023. In: Physics Letters B : Particle Physics, Nuclear Physics and Cosmology. - Amsterdam (Holandsko) : Elsevier č. 844 (2023), s. [1-15] [print, online]. - ISSN 0370-2693
- [52] ACHARYA, Shreyasi - ADAMOVIČOVÁ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan -

- BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VAĽA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Inclusive and multiplicity dependent production of electrons from heavy-flavour hadron decays in pp and p-Pb collisions / ALICE Collaboration - 2023. In: Journal of High Energy Physics = JHEP. - New York (USA) : Springer International Publishing AG č. 8 (2023), s. [1-52] [online, print, CD-ROM]. - ISSN 1126-6708
- [53] ACHARYA, Shreyasi - ADAMOVIČOVÁ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VAĽA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Performance of the ALICE Electromagnetic Calorimeter / ALICE Collaboration - 2023. In: Journal of Instrumentation = JINST : an IOP and SISSA journal. - Bristol (Veľká Británia) : IOP Publishing Roč. 18, č. 8 (2023), s. [1-135] [online]. - ISSN 1748-0221 (online)
- [54] ACHARYA, Shreyasi - ADAMOVIČOVÁ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VAĽA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Measurement of the angle between jet axes in pp collisions at $\sqrt{s}=5.02$ TeV / ALICE Collaboration - 2023. In: Journal of High Energy Physics = JHEP. - New York (USA) : Springer International Publishing AG č. 7 (2023), s. [1-47] [online, print, CD-ROM]. - ISSN 1126-6708
- [55] ACHARYA, Shreyasi - ADAMOVIČOVÁ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Enhanced Deuteron Coalescence Probability in Jets / ALICE Collaboration - 2023. In: Physical Review Letters. - College Park (USA) : American Physical Society Roč. 131, č. 4 (2023), s. [1-14] [print, online]. - ISSN 0031-9007
- [56] ACHARYA, Shreyasi - ADAMOVIČOVÁ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VAĽA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Inclusive photon production at forward rapidities in pp and p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV / ALICE Collaboration - 2023. In: European Physical Journal C : Particles and Fields. - Berlin (Nemecko) : Springer International Publishing AG Roč. 83, č. 7 (2023), s. [1-26] [print, online]. - ISSN 1434-6044
- [57] ACHARYA, Shreyasi - ADAMOVIČOVÁ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - TARASOVIČOVÁ, Lucia Anna - VAĽA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: First Measurement of Antideuteron Number Fluctuations at Energies Available at the Large Hadron Collider / ALICE Collaboration - 2023. In: Physical Review Letters. - College Park (USA) : American Physical Society

- Roč. 131, č. 4 (2023), s. [1-12] [print, online]. - ISSN 0031-9007
- [58] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVIĆ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš - DURKÁČ, Martin - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka: Measurement of the J/ψ Polarization with Respect to the Event Plane in Pb-Pb Collisions at the LHC / ALICE Collaboration - 2023. In: Physical Review Letters. - College Park (USA) : American Physical Society Roč. 131, č. 4 (2023), s. [1-13] [print, online]. - ISSN 0031-9007
- [59] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVIĆ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš - PUGELOVÁ, Zuzana - DURKÁČ, Martin: Production of K_S^0 , Λ ($\overline{\Lambda}$), Ξ^\pm , and Ω^\pm in jets and in the underlying event in pp and p-Pb collisions / ALICE Collaboration - 2023. In: Journal of High Energy Physics = JHEP. - New York (USA) : Springer International Publishing AG č. 7 (2023), s. [1-39] [online, print, CD-ROM]. - ISSN 1126-6708
- [60] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVIĆ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš - DURKÁČ, Martin - PUGELOVÁ, Zuzana: J/ψ production at midrapidity in p-Pb collisions at $\sqrt{s_{NN}} = 8.16$ TeV / ALICE Collaboration - 2023. In: Journal of High Energy Physics = JHEP. - New York (USA) : Springer International Publishing AG č. 7 (2023), s. [1-36] [online, print, CD-ROM]. - ISSN 1126-6708
- [61] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVIĆ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš - PUGELOVÁ, Zuzana - DURKÁČ, Martin: Symmetry plane correlations in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV / ALICE Collaboration - 2023. In: European Physical Journal C : Particles and Fields. - Berlín (Nemecko) : Springer International Publishing AG Roč. 83, č. 7 (2023), s. [1-21] [print, online]. - ISSN 1434-6044
- [62] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVIĆ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Towards the understanding of the genuine three-body interaction for p-p-p and p-p- Λ / ALICE Collaboration - 2023. In: The European Physical Journal A : Hadrons and Nuclei. - Berlín (Nemecko) : Springer International Publishing AG Roč. 59, č. 7 (2023), s. [1-22] [print, online]. - ISSN 1434-6001
- [63] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVIĆ, Natália - MEREŠ, Michal

- PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš - PUGELOVÁ, Zuzana - DURKÁČ, Martin: Multiplicity and rapidity dependence of $K^*(892)^0$ and $\phi(1020)$ production in p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV / ALICE Collaboration - 2023. In: European Physical Journal C : Particles and Fields. - Berlín (Nemecko) : Springer International Publishing AG Roč. 83, č. 6 (2023), s. [1-21] [print, online]. - ISSN 1434-6044
- [64] ACHARYA, Shreyasi - ADAMOVIČ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš - PUGELOVÁ, Zuzana - DURKÁČ, Martin: Measurement of $\psi(2S)$ production as a function of charged-particle pseudorapidity density in pp collisions at $\sqrt{s} = 13$ TeV and p-Pb collisions at $\sqrt{s_{NN}} = 8.16$ TeV with ALICE at the LHC / ALICE Collaboration - 2023. In: Journal of High Energy Physics = JHEP. - New York (USA) : Springer International Publishing AG č. 6 (2023), s. [1-28] [online, print, CD-ROM]. - ISSN 1126-6708
- [65] ACHARYA, S. - ADAMOVIČ, D. - ADLER, A. - AGLIERI RINELLA, G. - AGNELLO, M. - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš - PUGELOVÁ, Zuzana - DURKÁČ, Martin: Study of charged particle production at high pT using event topology in pp, p-Pb and Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV / ALICE Collaboration - 2023. In: Physics Letters B : Particle Physics, Nuclear Physics and Cosmology. - Amsterdam (Holandsko) : Elsevier č. 843 (2023), s. [1-14] [print, online]. - ISSN 0370-2693
- [66] ACHARYA, Shreyasi - ADAMOVIČ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš - DURKÁČ, Martin: Measurement of the production of charm jets tagged with D0 mesons in pp collisions at $\sqrt{s}=5.02$ and 13 TeV / ALICE Collaboration - 2023. In: Journal of High Energy Physics = JHEP. - New York (USA) : Springer International Publishing AG č. 6 (2023), s. [1-39] [online, print, CD-ROM]. - ISSN 1126-6708
- [67] ACHARYA, Shreyasi - ADAMOVIČ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš - PUGELOVÁ, Zuzana: Jet-like correlations with respect to K_S^0 and Λ ($\bar{\Lambda}$) in pp and central Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV / ALICE Collaboration - 2023. In: European Physical Journal C : Particles and Fields. - Berlín (Nemecko) : Springer International Publishing AG Roč. 83, č. 6 (2023), s. [1-20] [print, online]. - ISSN 1434-6044
- [68] ACHARYA, Shreyasi - ADAMOVIČ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVÁ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana -

- SAJDAKOVÁ, Klaudia - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Light (anti)nuclei production in Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV / ALICE Collaboration - 2023. In: Physical Review C : Nuclear Physics. - College Park (USA) : American Physical Society Roč. 107, č. 6 (2023), s. [1-16] [print, online, CD-ROM]. - ISSN 2469-9985
- [69] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIHOVIĆ, Natálie - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Production of pions, kaons, and protons as a function of the relative transverse activity classifier in pp collisions at $\sqrt{s}=13$ TeV / ALICE Collaboration - 2023. In: Journal of High Energy Physics = JHEP. - New York (USA) : Springer International Publishing AG č. 6 (2023), s. [1-35] [online, print, CD-ROM]. - ISSN 1126-6708
- [70] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIHOVIĆ, Natálie - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Underlying-event properties in pp and p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV / ALICE Collaboration - 2023. In: Journal of High Energy Physics = JHEP. - New York (USA) : Springer International Publishing AG č. 6 (2023), s. [1-37] [online, print, CD-ROM]. - ISSN 1126-6708
- [71] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIHOVIĆ, Natálie - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Dielectron production at midrapidity at low transverse momentum in peripheral and semi-peripheral Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV / - 2023. In: Journal of High Energy Physics = JHEP. - New York (USA) : Springer International Publishing AG č. 6 (2023), s. [1-31] [online, print, CD-ROM]. - ISSN 1126-6708
- [72] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIHOVIĆ, Natálie - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Neutron emission in ultraperipheral Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV / ALICE Collaboration - 2023. In: Physical Review C : Nuclear Physics. - College Park (USA) : American Physical Society Roč. 107, č. 6 (2023), s. [1-18] [print, online, CD-ROM]. - ISSN 2469-9985
- [73] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIHOVIĆ, Natálie - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: First measurement of Λ_c^+ production down to $p_T=0$ in pp and p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV / ALICE Collaboration - 2023. In: Physical Review C : Nuclear Physics. - College Park (USA) : American Physical Society Roč. 107, č. 6 (2023), s. [1-19] [print, online, CD-ROM]. - ISSN 2469-9985
- [74] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIHOVIĆ, Natálie - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adéla - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš: Measurements of the groomed jet radius and momentum splitting fraction with the soft drop and dynamical grooming algorithms in pp collisions at $\sqrt{s}=5.02$

- TeV / ALICE Collaboration - 2023. In: Journal of High Energy Physics = JHEP. - New York (USA) : Springer International Publishing AG č. 5 (2023), s. [1-26] [online, print, CD-ROM]. - ISSN 1126-6708
- [75] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVIĆ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - TARASOVIČOVÁ, Lucia Anna - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš - DURKÁČ, Martin: Anisotropic flow and flow fluctuations of identified hadrons in Pb–Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV / ALICE Collaboration - 2023. In: Journal of High Energy Physics = JHEP. - New York (USA) : Springer International Publishing AG č. 5 (2023), s. [1-34] [online, print, CD-ROM]. - ISSN 1126-6708
- [76] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVIĆ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš - DURKÁČ, Martin: Measurement of inclusive and leading subjet fragmentation in pp and Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV / - 2023. In: Journal of High Energy Physics = JHEP. - New York (USA) : Springer International Publishing AG č. 5 (2023), s. [1-32] [online, print, CD-ROM]. - ISSN 1126-6708
- [77] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVIĆ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš - DURKÁČ, Martin - PUGELOVÁ, Zuzana: Two-particle transverse momentum correlations in pp and p-Pb collisions at energies available at the CERN Large Hadron Collider / ALICE Collaboration - 2023. In: Physical Review C : Nuclear Physics. - College Park (USA) : American Physical Society Roč. 107, č. 5 (2023), s. [1-20] [print, online, CD-ROM]. - ISSN 2469-9985
- [78] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVIĆ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš - DURKÁČ, Martin - PUGELOVÁ, Zuzana: Observation of flow angle and flow magnitude fluctuations in Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV at the CERN Large Hadron Collider / ALICE Collaboration - 2023. In: Physical Review C : Nuclear Physics. - College Park (USA) : American Physical Society Roč. 107, č. 5 (2023), s. [1-13] [print, online, CD-ROM]. - ISSN 2469-9985
- [79] ACHARYA, S. - ADAMOVIĆ, D. - ADLER, A. - AGLIERI RINELLA, G. - AGNELLO, M. - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš - DURKÁČ, Martin: W_{\pm} -boson production in p-Pb collisions at $\sqrt{s_{NN}}=8.16$ TeV and Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV / ALICE Collaboration - 2023. In: Journal of High Energy Physics = JHEP. - New York (USA) : Springer International Publishing AG č. 5 (2023), s. [1-36] [online, print, CD-ROM]. - ISSN 1126-6708
- [80] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVIĆ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana -

- SAJDAKOVÁ, Klaudia - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš - DURKÁČ, Martin - PUGELOVÁ, Zuzana: Investigation of K plus K- interactions via femtoscopy in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV at the CERN Large Hadron Collider / ALICE Collaboration - 2023. In: *Physical Review C : Nuclear Physics*. - College Park (USA) : American Physical Society Roč. 107, č. 5 (2023), s. [1-16] [print, online, CD-ROM]. - ISSN 2469-9985
- [81] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVIĆ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš - DURKÁČ, Martin - PUGELOVÁ, Zuzana - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - VALA, Martin - VRLÁKOVÁ, Janka: $\Sigma(1385)_{\pm}$ resonance production in Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV / ALICE Collaboration - 2023. In: *European Physical Journal C : Particles and Fields*. - Berlín (Nemecko) : Springer International Publishing AG Roč. 83, č. 5 (2023), s. [1-16] [print, online]. - ISSN 1434-6044
- [82] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - AGLIERI-RINELLA, Gianluca - AGNELLO, M. - DŽALAIIOVIĆ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš - DURKÁČ, Martin - PUGELOVÁ, Zuzana: Constraining the (K)over-barN coupled channel dynamics using femtoscopic correlations at the LHC / ALICE Collaboration - 2023. In: *European Physical Journal C : Particles and Fields*. - Berlín (Nemecko) : Springer International Publishing AG Roč. 83, č. 4 (2023), s. [1-21] [print, online]. - ISSN 1434-6044
- [83] ACHARYA, S. - ADAMOVIĆ, D. - ADLER, A. - ADOLFSSON, Jonatan - AGLIERI RINELLA, G. - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - TKÁČIK, Tomáš - DURKÁČ, Martin: Constraining hadronization mechanisms with $\Lambda+c/D0$ production ratios in Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV / ALICE Collaboration - 2023. In: *Physics Letters B : Particle Physics, Nuclear Physics and Cosmology*. - Amsterdam (Holandsko) : Elsevier č. 839 (2023), s. [1-24] [print, online]. - ISSN 0370-2693
- [84] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - ADOLFSSON, Jonatan - AGLIERI-RINELLA, Gianluca - DŽALAIIOVIĆ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - AHUJA, Ishaan - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - SAJDAKOVÁ, Klaudia - VALA, Martin - VRLÁKOVÁ, Janka - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan: Inclusive quarkonium production in pp collisions at $\sqrt{s}=5.02$ TeV / ALICE Collaboration - 2023. In: *European Physical Journal C : Particles and Fields*. - Berlín (Nemecko) : Springer International Publishing AG Roč. 83, č. 1 (2023), s. [1-27] [print, online]. - ISSN 1434-6044
- [85] ACHARYA, Shreyasi - ADAMOVIĆ, Dagmar - ADLER, A. - ADOLFSSON, Jonatan - AGLIERI-RINELLA, Gianluca - BOMBARA, Marek - KRAVČÁKOVÁ, Adela - REŠČÁKOVÁ, Zuzana - VALA, Martin - VRLÁKOVÁ, Janka - DŽALAIIOVIĆ, Natália - MEREŠ, Michal - PIKNA, Miroslav - SITÁR, Branislav - SZARKA, Imrich - JADLOVSKÁ, Slávka - JADLOVSKÝ, Ján - TKÁČIK, Milan - DURKÁČ, Martin: Measurement of anti- ^3He nuclei absorption in matter and impact on their propagation in the Galaxy / ALICE Collaboration - 2023. In: *Nature Physics*. - Londýn (Veľká Británia) : Nature Publishing Group Roč. 19, č. 1 (2023), s. 61-71 [print, online]. - ISSN 1745-2473
- [86] MIČKO, Kristián - PAPCUN, Peter: Parking Management System Based on

- Key Points Detection / - 2023. In: Acta Electrotechnica et Informatica. - Košice (Slovensko) : Fakulta elektrotechniky a informatiky Roč. 23, č. 3 (2023), s. 33-39 [print, online]. - ISSN 1335-8243
- [87] BRECKO, Alexander - POMŠÁR, Ladislav - ZOLOTOVÁ, Iveta: Web Application for Personal Digital Health Records / - 2023. In: Acta Electrotechnica et Informatica. - Košice (Slovensko) : Fakulta elektrotechniky a informatiky Roč. 23, č. 3 (2023), s. 16-26 [print, online]. - ISSN 1335-8243
- [88] DEMOLDER, Anthony - HERMAN, Robert - VAVRÍK, Boris - MARTOŇÁK, Michal - BOŽA, Vladimír - HERMAN, Martin - PALUŠ, Timotej - KREŠŇÁKOVÁ, Viera - BAHYL, Jakub - IRING, Andrej - NELIS, Olivier - FABBRICATORE, Davide - PERL, Leor - HATALA, Robert - BARTÚNEK, Jozef: Validation of an artificial intelligence model for 12-lead ecg interpretation / - 2023. In: European Heart Journal. - Barcelona (Španielsko) : John Wiley & Sons, 2017 Roč. 44, č. Suppl. 2 (2023), s. [1-1] [print, online]. - ISSN 0195-668X

9.1 Other publications

Publication Type	Confereces		Other
	Foreign	Home	
Number	9	39	27