





**CONFERENCE PROGRAMME**

**Introduction**

**10 Top Reasons Why You Should Visit Rhodes Island, Greece in the context of our Conference!**

1. Be mesmerized by the **Gothic grandeur of the Old Town of Rhodes, one of the best-preserved medieval castle-states in the world and a UNESCO World Heritage City since 1988.**The atmospheric Street of the Knights and the imposing Grand Master's Palace bring pages of a chivalric tale to life.

2. **Enjoy the spectacular sight of the Valley of Butterflies**, a habitat of unique natural beauty where thousands of colorful and rare butterflies find refuge from the coolness every summer.

3. **Tour the majestic ancient acropolis of Rhodes on the hill of Monte Smith,** overlooking the endless blue. The superbly restored Hellenistic stadium of Diagoras and the Temple of Pythian Apollo steal the impressions.

4. **See the Rhodes of the Knights come to life before you at the annual Medieval Festival (early June**), a three-day re-enactment of daily life in the Old Town during the time of the Order of Knights.

5. Discover the **exotic Prasonisi, a pine-clad islet at the southernmost tip of Rhodes**that (depending on the weather and sea level) joins the mainland via a narrow sandy strip to create an impressive beach - an international windsurfing paradise.

6. **Visit the Cycladic state of Lindos, a famous cosmopolitan resort of the international jet set of the '50s - '70s**. The white traditional houses, cobbled cobblestones and majestic captain's houses make up a unique setting. Climb the rock of the walled ancient acropolis with the Temple of Lindia Athena to gaze at the view of the Aegean.

7. **Catch the sunset from the Monolith Castle, built on a 236-meter cliff. This impressive "castle of eagles" (1476)** offers a magnificent view of neighboring Chalki.

8. Stroll along the cosmopolitan promenade of the New Town to discover an open-air architecture museum with iconic buildings of the Italianate such as the old Government House **reminiscent of the Doge's Palace in Venice and the legendary medieval Albergo delle Rose or "Dream of the East"**hotel (today's Casino of Rhodes).

9.Visit the historic **Monastery of Panagia Tsampika**(patroness of childless couples), one of the most important pilgrimages in the Aegean. Built on a 326-meter rock, the Monastery offers an unparalleled view of the sea.

10.**Enjoy an unforgettable road trip in the mountain villages of the island.** In Embonas of vineyards and the great wine tradition, in Archangelos of ceramic art and rare miniature horses, in the labyrinthine Koskinou with the colorful facades of houses, in Kritinia with the beautiful castle.

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**HOTEL MEDITERRANEAN
35 - 37, Cos Str., Rhodes Island, 85100, Greece**

**Tel.: 0030 22410 24661, 0030 22410 97000
www.mediterranean.gr E-mail: info@mediterranean.gr**

**Tuesday, July 18, 2023**

**20:00-21:00
Welcome Cocktail in the Hotel Mediterranean**

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35 - 37, Cos Str., Rhodes Island, 85100, Greece**

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**Wednesday, July 19, 2023**

**08.00-16:00 (working hours of the Secretariat)**

**Registration**

**Distribution of the Conference bags**

**\* Certifications of Presentation and Receipts (Invoices) will be sent to you only by email**

**Conference Room A'**

| **Time: 08.00-08:20** |
| --- |
| **The Evolving Returns Integrated System - ERISby Nikos Loukeris** |

| **Time: 08.20-08:40** |
| --- |
| **Implementation of Topology Optimization into a CAM Simulation of Robotic Machiningby** **Peter Križan, Lukáš Hanko, Miloš Matúš, Ján Kijovský, Stanislav Strigáč** |
| **Time: 08:40-09:00** |
| **Investigations of the influence of compression load eccentricity on the stability and load carrying capacity of thin-walled composite profiles.by Hubert Dębski** |

| **Time: 09.00-09:20** |
| --- |
| **Identification of crashworthiness indicators using artificial neural networks on the example of columnar energy absorbers with triggers in the form of cylindrical dents on the lateral edgesby Mirosław Ferdynus, Jakub Gajewski** |

| **Time: 09.20-09:40** |
| --- |
| **On the Discrete Concavity of Packet Reception Ratio Utility Functionsby Evangelos D. Spyrou, Alkiviadis Tromaras, Vassilios Kappatos, Evangelos Bekiaris** |

| **Time: 09.40-10:00** |
| --- |
| **Study of Case Regarding Analysis of Vibration at Industrial Vibrating Tablesby Cristea Aurora Felicia, Balcau Monica, Haragas Simion** |

| **Time: 10.00-10:20** |
| --- |
| **Damage Identification in FRP Composites Based on Elastic Wave Analysisby Sylwester Samborski, Izabela Korzec, Jakub Skoczylas** |

**Conference Room B'**

| **Time: 08.00-08:20** |
| --- |
| **E-Commerce Optimization On A B2c Type Websiteby Mitat Uysal, Ozan Uysal, Nurdanur Pehlivan** |

| **Time: 08:20-08:40** |
| --- |
| **Solving UAV path problem using meta-heuristic optimization algorithmsby Mitat Uysal, Ozan Uysal, Nurdanur Pehlivan** |

| **Time: 08:40-09:00** |
| --- |
| **Scene Matching Techniques Using Satellite Imagery Databy A.A.Shahin** |

| **Time: 09.00-09:20** |
| --- |
| **A New Asymmetric GARCH Model: Testing, Estimation and an Application to Falling and Rising Marketsby Abdulnasser Hatemi-J** |

| **Time: 09.20-09:40** |
| --- |
| **Exploring Large Language Models for Natural Language Processingby Ayodeji Olalekan Salau, Esuku Dickson Emmanuel** |

| **Time: 09.40-10:00** |
| --- |
| **Enhancing Hostel Security: Integration of Deep Learning Models for Smoking and Violence Detection** **by Ayodeji Olalekan Salau, Nneji Ifeanyi Daniel, Ogunkuade Ayobamidele** |

| **Time: 10.00-10:20** |
| --- |
| **Wireless Sensor Networks Lifetime Improvement Using Greedy Algorithmby Ayodeji Olalekan Salau, Berhan Oumer Adame, Eyayaw Zewdu** |

| **Time: 10:20-11:00 (Plenary Speech)** |
| --- |
| **Energy Consumption Modelling and Forecasting for Commercial Industrial Manufacturing Applications**Short.jpg**byProfessor Michael Short, School of Computing, Engineering and Technology Teesside University, Middlesbrough, TS1 3BA, UK** |

| **Time: 11:00-11:45 (Plenary Speech)** |
| --- |
| **On new Taylor-like formula: Applications for error estimates of numerical approximations**Chaskalovic.jpg**by Prof. Joël ChaskalovicProfesseur des UniversitésCNU 26 - Mathématiques appliquéesInstitut Jean le Rond d'Alembert - Case 162,Sorbonne Université4, Place Jussieu,75252 Paris Cedex 05, FRANCE** |

| **Time: 11:45-12:30 (Plenary Speech)** |
| --- |
| **Safety and security issues in semi-autonomous cyber-physical systems: reduced-crew air transport case study** **Zolghadri.jpgby Professor Ali Zolghadri, Senior Member, IEEE IMS-CNRS lab - A31 building, University of Bordeaux, 351 cours de la Libération, 33405 Talence cedex, France** |

**12:30-13:00
Coffee Break**

**Conference Room A'**

| **Time: 13.00-13:20** |
| --- |
| **The lifetime cancer risk assessment of inhalation of PM-bound carcinogenic components in urban environmentsby Constantinos Sioutas, Vahid Jalali Farahani, Mohammad Aldekheel** |

| **Time: 13.20-13:40** |
| --- |
| **A Case Study about Innovative Engineering Education based on Capacitor Charging and Discharging in Circuits & Systemsby Hua Fan** |

| **Time: 13.40-14:00** |
| --- |
| **The Spectral Characteristics of f-waves - the Prognostic Significance of Atrial Fibrilation Recurrences after Ablationby Mikhail Matveev, Iskren Garvanski, Vessela Krasteva, Todor Stoyanov** |

| **Time: 14.00-14:20** |
| --- |
| **Hazardous Industrial Waste In The European Unionby Nivolianiti Zoi** |

| **Time: 14.20-14:40** |
| --- |
| **Numerical analysis of the interaction of Savonius vertical axis wind turbines in tree-type cluster configurationby Mihnea Gall, Ion Mălăel, Dragoș Preda** |

| **Time: 14.40-15:00** |
| --- |
| **Time Series Satellite Data for Assessment of Urban Air Pollution and Climate Dynamics impacts on COVID-19 transmission in Bucharestby Dan Savastru, Maria A. Zoran, Roxana Savastru, Marina N. Tautan, Daniel v. Tenciu** |

**12:30-13:00
Coffee Break**

**Conference Room B'**

| **Time: 13.00-13:20** |
| --- |
| **Evaluation of Adaptive Synthetic Resampling Technique for Imbalanced Breast Cancer Identificationby Tsehay Admassu Assegie, Ayodeji Olalekan Salau** |

| **Time: 13.20-13:40** |
| --- |
| **Positioning technique in the XY plane based on circle approximation for wafer stage controlby Seongjin Oh, Jongpil Jeong, Chae-gyu Lee, Tae-yong Kim, Yongju Na, Se-hyeon Ryu** |

| **Time: 13.40-14:00** |
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| **The Spectral Characteristics of f-waves - the Prognostic Significance of Atrial Fibrilation Recurrences after Ablationby Mikhail Matveev, Iskren Garvanski, Vessela Krasteva, Todor Stoyanov** |

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**15:00-15:30
Coffee Break**

**Conference Room A'**

| **Time: 15.30-15:50** |
| --- |
| **Numerical and Experimental Anaysis of Massive MIMO Channel Characteristics in a Rectangular Highway Tunnel at 5.9 GHzby Esteban Egea-Lopez, Jose-Maria Molina-Garcia-Pardo, Martine Lienard, Pierre Laly, Pierre Degauque** |

| **Time: 15.50-16:10** |
| --- |
| **Limitations and perspectives of the Multi Beam Optical FBMC Technology in Optical Fiber Communicationsby Rastislav Róka** |

| **Time: 16.10-16:30** |
| --- |
| **The Use of Constructive Simulation in the Educational Process of Military Engineersby Ota Rolenec, Martin Vlkovsky, Martin Sedlacek** |

| **Time: 16.30-16:50** |
| --- |
| **Auto-tuning method for alternating aeration control in activated sludge processesby Ioana Nascu, Ioan Nascu** |

| **Time: 16.50-17:10** |
| --- |
| **Design of Monolithic RF CMOS Sub-mW Self-Oscillating-Mixersby S. Fenni, F. Haddad, A. Slimane, R. Touhami and W. Rahajandraibe** |

| **Time: 17.10-17:30** |
| --- |
| **Costas Loop for BPSK Carrier Phase Synchronisation Implemented on a SDR Hardware Platformby Ryan D Amato, Ivan Grech, Owen Qasha** |

| **Time: 17.30-17:50** |
| --- |
| **Communication of innovation: focus on Georgian SMEsby Velga Vevere, Ketevan Rizhamadze, Iveta Linina** |

| **Time: 17.50-18:10** |
| --- |
| **A Fast Transient, 24 mA Switched Capacitor Boost Regulator in 40 nm CMOS Technologyby Mostafa Hosny, Sameh Ibrahim** |

| **Time: 18.10-18:30** |
| --- |
| **A Swarm-Based Flocking Control Algorithm for Exploration and Coverage of Unknown Environmentsby Fredy Martı́nez, Angélica Rendón, Fernando Martı́nez** |

| **Time: 18.30-18:50** |
| --- |
| **A Machine-Learning Approach for Prognosis of Oscillating Water Column Wave Generatorsby Izaskun Garrido, Jon Lecube, Fares Mzoughi, Payam Aboutalebi, Irfan Ahmad, Salvador Cayuela, Aitor Garrido** |

| **Time: 18.50-19:10** |
| --- |
| **Strategy development for use of influencers in communication of small and medium-sized enterprises (SMEs) with consumersby Iveta Linina** |

**15:00-15:30
Coffee Break**

**Conference Room B'**

| **Time: 15.30-15:50** |
| --- |
| **Pattern Wafer x/y Auto Align System using Machine Visionby Tae-yong Kim, Jongpil Jeong, Chae-gyu Lee, Seongjin Oh, Lee Jieun, Yongju Na** |

| **Time: 15.50-16:10** |
| --- |
| **Design and Implementation of an Ellipsometer Inspection System that Conforms to the Wafer s MI Process in the Production Processby Jae-Sung Kim** |

| **Time: 16.10-16:30** |
| --- |
| **Software for animation and graphic visualization of mechatronic elements and control process of FMSby Mammadov Javanshir, Huseynov Agil, Aliyeva Sabina, Khuliyeva Ulviya, Aliyeva Hadiya** |

| **Time: 16.30-16:50** |
| --- |
| **Study of Voltage controlled oscillator for the applications in K-band and the proposal of a tunable VCOby Garima Kapur, Rajnu Parashar** |

| **Time: 16.50-17:10** |
| --- |
| **Nano-Education at the Crossroads: How to Engage Ukrainian Youth in Nanotechnology Specialties?by Ihor Bohdanov, Hanna Lopatina, Anastasia Popova, Natalia Tsybuliak, Sergii Kovachov, Yana Suchikova** |

| **Time: 17.10-17:30** |
| --- |
| **High-Quality Digital Bichronous Education for Nanoengineers During the War in Ukraine: Does Technology Knowledge Matter?by Anastasia Popova, Natalia Tsybuliak, Sergii Kovachov, Yana Suchikova, Hanna Lopatina, Ihor Bohdanov** |

| **Time: 17.30-17:50** |
| --- |
| **Towards Leveraging Explainable Artificial Intelligent (XAL) in Requirements Engineering (RE) to Identify Aspect (Crosscutting Concern): A Systematic Literature Review (SLR) and Bibliometric Analysisby Aws A. Magableh** |

| **Time: 17.50-18:10** |
| --- |
| **Identification and Prevention of Banking Fraud and Scamsby Farhad Mehdipour, Evgenii Babenkov, U.H.W.A. Hewage, Ari Aharari** |

| **Time: 18.10-18:30** |
| --- |
| **Multi-microgrids system’s resilience enhancementby Samira Chalah, Hadjira Belaidi** |

| **Time: 18.30-18:50** |
| --- |
| **Modeling Malaria Disease Spread Using Location-specific Internet Databy Gbenga Adegbite, Sunday Edeki, Itunuoluwa Isewon, Jelili Oyelade, Ezekiel Adebiyi** |

**20:00-24:00
BANQUET. Greek Night with Live Music and Folklore Dances from Rhodes (Rodos), Crete and other Greek Islands.**

Additional Banquet Tickets for accompanying Persons: 35 EUR

BANQUET will be held on July 19 in **DROSOULITES**

<https://www.tripadvisor.com.gr/Restaurant_Review-g635613-d7715450-Reviews-Drosoulites_Rakadiko-Rhodes_Town_Rhodes_Dodecanese_South_Aegean.html>

in a walking distance from the Hotel Mediterranean

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**Conference Room A'**

| **Time: 08.00-08:20** |
| --- |
| **Design and implementation of a voice assistant to be used in a IoT home automation environmentby Sergio Yahel Torres-Maldonado, David Tinoco-Varela, Raúl Dalí Cruz-Morales, Gonzalo Hedain López-Mera, Diego Sánchez-García, Erick Axel Padilla-García** |

| **Time: 08.20-08:40** |
| --- |
| **Flying Carpets: Assessing Artificial Intelligence as an Entertainment Serviceby Theodoros Anagnostopoulos** |

| **Time: 08.40-09:00** |
| --- |
| **Remote Temparature and Humidity Measurement System for home and warehousesby Stanyo Kolev** |

| **Time: 09.00-09:20** |
| --- |
| **Digitalization of Entrepreneurship Education: In Search Of A New Approachby Kristaps Lesinskis** |

| **Time: 09.20-09:40** |
| --- |
| **The fuzzy model for sectoral resilience analysisby Nedosekin A., Malyukov Yu., Abdoulaeva Z., Silakov A.** |
| **Time: 09:40-10:00** |
| **Carbon Pricing in Germany’s Road Transport and Housing Sector: Options for Reimbursing Carbon Revenuesby Manuel Frondel, Stefanie Schubert** |

| **Time: 10.00-10:20** |
| --- |
| **Net Zero Policy Performance Measurement of European Countriesby Rana Duygu Alkurt, Mehtap Dursun, Nazli Goker** |

| **Time: 10.20-10:40** |
| --- |
| **Narrowband Internet of Things (NB-IoT) for Energy Efficient Body Area Network (BAN) Applicationsby Emil Novakov** |

| **Time: 10.40-11:00** |
| --- |
| **Determination of Flame Plume Characteristics utlising CFD and Experimental Approachesby Neihad Hussen Al-Khalidy** |

| **Time: 11.00-11:20** |
| --- |
| **Student Learning Styles in Information Technologyby Sussy Bayona Oré** |
| **Time: 11.20-11:40** |
| **Geomorphological and Sedimentological Indicators of Contemporary Erosion Processes: An Example of the Eastern Rhodopes Mountains (Bulgaria)by Valentina Nikolova, Radostina Rizova, Veselina Gospodinova, Asparuh Kamburov** |

**11:40-12:00
Coffee Break**

**Conference Room B'**

| **Time: 09.00-09:20** |
| --- |
| **Scale-dependent statistical analysis of hydrogeological parametersby Paola Gattinoni** |

| **Time: 09.20-09:40** |
| --- |
| **Time Series Satellite and Observational Data for Assessment of Urban Air Pollution and Climate Dynamics Impacts on COVID-19 transmission in Bucharestby Dan Savastru, Maria a. Zoran, Roxana Savastru, Marina N. Tautan, Daniel V. Tenciu** |
| **Time: 09:40-10:00** |
| **Spatiotemporal changes of urban land surface albedo impact on thermal environment in Bucharest metropolitan cityby Maria A. Zoran, Roxana Savastru, Dan Savastru, Marina n. Tautan, Adrian c. Penache** |

| **Time: 10.00-10:20** |
| --- |
| **Comprehensive study of Wheat Yield Prediction using Analytical and Simulation Approachesby Nandini Babbar** |

| **Time: 10.20-10:40** |
| --- |
| **Ultrasonic pretreatment for Enhancing Sludge disintegration and Resource Utilization: A mini reviewby Ziliang Guan** |

| **Time: 10.40-11:00** |
| --- |
| **Determination of Flame Plume Characteristics utlising CFD and Experimental Approachesby Neihad Hussen Al-Khalidy** |

| **Time: 11.00-11:20** |
| --- |
| **Preliminary date of ground water characteristics and related disease riskby Raafat Abdeldayem** |
| **Time: 11.20-11:40** |
| **About the Tikhonov Regularization Method for the Solution of Incorrect Problemsby V.M.Ryabov, I.G.Burova** |

**11:40-12:00
Coffee Break**

**Conference Room A'**

| **Time: 12.00-12:20** |
| --- |
| **Appropriate communication of the strategy as an impact factor for business model digitalizationby Rosita Zvirgzdina** |

| **Time: 12.20-12:40** |
| --- |
| **Realtime Detection of Table Objects and Text Areas for OCR Preprocessingby Hangseo Choi, Jongpil Jeong** |
| **Time: 12:40-13:00** |
| **Container BIC-Code Recognition Algorithm Based on the Convergence of a 1-Stage Detector and a 2-Stage Detectorby Hangseo Choi, Jongpil Jeong, Seokwoo Yun, Kyunga Bang, Jaebeom Byun** |

| **Time: 13.00-13:20** |
| --- |
| **Small-signal and Transient Stability Investigation of Inverter Grid Synchronizationby Alexander Schöley, Torsten Jeinsch** |

| **Time: 13.20-13:40** |
| --- |
| **Extraction of TRMM Satellite Data for rain fall predictionby Krachache Zahia, Ayoub Atmane, Sarah Benziane** |

| **Time: 14.40-14:20** |
| --- |
| **The use of biometric technologies to increase security at sporting eventsby Barbora Kotkova** |

| **Time: 14.20-14:40** |
| --- |
| **Design and Development of a Multifunction Device for Lead Acid Batteriesby Lubomír Macků, František Gazdoš, Martin Hlavizna** |
| **Time: 14.40-15:00** |
| **The dynamic model of the real integrating process with variable coefficientsby Miroslav Palka, Frantisek Gazdos** |

**15:00-15:20
Coffee Break**

**Conference Room B'**

| **Time: 12.00-12:20** |
| --- |
| **Use of Dynamic Biometric Signature in Communication of Companyby Barbora Kotkova** |

| **Time: 12.20-12:40** |
| --- |
| **Multi-microgrids system’s resilience enhancementby Samira Chalah, Hadjira Belaidi** |
| **Time: 12:40-13:00** |
| **The Microsystem Design of Steering Angle Sensorby Hua Fan** |

| **Time: 13.00-13:20** |
| --- |
| **Application of Splines of the Seventh Order Approximation to the Solution of Fredholm Integral Equations with Weekly Singularityby I.G.burova, G.O.Alcybeev** |

| **Time: 13.20-13:40** |
| --- |
| **Basic CMOS VLSI Circuits and Low Power Devices Employing Various Reduction Techniques to Reduce Leakage Power at Low Supply Voltage in Nanoscale Technologyby GHanshyam Singh** |

| **Time: 14.40-14:20** |
| --- |
| **Kolb Model: Learning Styles of Engineering Studentsby Sussy Bayona Oré** |

| **Time: 14.20-14:40** |
| --- |
| **Bearing Fault Diagnosis of WDCNN-LSTM in Siamese Networkby Daehwan Lee, Jongpil Jeong, Chaegyu Lee, Hakjun Moon, Jaeuk Lee and Dongyoung Lee** |

**15:00-15:20
Coffee Break**

**Conference Room A'**

| **Time: 15.20-16:00** |
| --- |
| **Pre-trained CNN-based TransUNet Model for Mixed-Type Defects in Wafer Mapsby Youngjae Kim, Jee-Hyong Lee, Jongpil Jeong** |

| **Time: 16.00-16:20** |
| --- |
| **Extracting a Mathematical Model from Oil Drilling Data using GMDHby Amir Mohammad, Reggie Davidrajuh** |

| **Time: 16.20-16:40** |
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| **Identification and Prevention of Banking Fraud and Scamsby Farhad Mehdipour, Evgenii Babenkov, U.H.W.A. Hewage, Ari Aharari** |

| **Time: 16.40-17:00** |
| --- |
| **Control Principles of Stationary Articulated Robots Used in Cyber-Physical Factoriesby Květoslav Belda, Lukáš Venkrbec** |

| **Time: 17.00-17:40** |
| --- |
| **A Linear Algebraic Toolbox for Analyzing Strongly Connected Componentsby Reggie Davidrajuh** |

| **Time: 17:40-18:00** |
| --- |
| **Particle Swarm Optimisation for Model Predictive Control Adaptationby Květoslav Belda, Lenka Kuklišová Pavelková** |

| **Time: 18.00-18:20** |
| --- |
| **Deep Learning Electric Load Forecasting for the Greek Power Systemby Vasileios Zelios, Paris Mastorocostas, George Kandilogiannakis, Anastasios Kesidis, Panagiota Tselenti, Athanasios Voulodimos** |

| **Time: 18.20-18:40** |
| --- |
| **Topological Deformation Learning: Nonlinear Dimension Reduction by Autonomous Evolving of Data Manifoldby Xiaodong Zhuang, Nikos Mastorakis** |

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**Friday, July 21, 2023**

**09.00-16:00 (working hours of the Secretariat)**

**Registration**

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**Conference Room A'**

| **Time: 08.00-08:20** |
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| **Prevention of Transmission of Infections in Robotic Milkingby Dimitar Karastoyanov, Elena Blagoeva, Kancho Peychev, Gencho Valchev** |

| **Time: 08.20-08:40** |
| --- |
| **Monitoring the movement of people and tracking contacts in medical facilitiesby Katarína Kampová, Martin Boroš, Matúš Madleňák, Erika Skypálová** |

| **Time: 08.40-09:00** |
| --- |
| **Development of the Ishikawa diagram of sensory projectionsby Eva Brlek, Lovorka Gotal Dmitrović** |

| **Time: 09.00-09:20** |
| --- |
| **On Move-To-Front Implementationby Borut Žalik, Mitja Žalik, Bogdan Lipuš** |

| **Time: 09.20-09:40** |
| --- |
| **A Sample Model for Integrating Decentralized Payment Systems Through Common Gateway for E-commerceby Vadims Zilnieks, Ingars Erins** |
| **Time: 09:40-10:00** |
| **Solution of Stochastic Sine-Gordon Equation by Variational Iteration Methodby Haziem M. Hazaimeh** |

| **Time: 10.00-10:20** |
| --- |
| **Control of Additive Manufacturing Process Based on FEM Analysis to Increase Productivity and Component Strengthby Miloš Matúš, Peter Križan, Miroslava Švecová, Stanislav Strigáč, Ján Kijovský, Juraj Beniak** |

| **Time: 10.20-10:40** |
| --- |
| **A vertical systematic generalization towards real IP analog-mixed-signal AMS schematics structure recognitionby Mohamed Salem, Ali Deeb, Abdalrahman Ibrahim,Witesyavwirwa Vianney Kambale, Pichler Joachim, Fadi Al Machot, Kyandoghere Kyamakya** |

| **Time: 10.40-11:00** |
| --- |
| **Data Classification Analysis for Alzheimer Disease Diagnosticby Virginia Valcheva, Olga Georgieva** |

| **Time: 11.00-11:20** |
| --- |
| **Ensemble Transfer Learning for Time Series Forecasting: a Sensitivity Analysis framework for a Shallow Neural Network by Witesyavwirwa Vianney Kambale, Ali Deeb, Taha Bernabia, Fadi Al Machot, Kyandoghere Kyamakya** |
| **Time: 11.20-11:40** |
| **Transformers in Time Series Forecasting: A brief Transfer Learning Performance Analysisby Witesyavwirwa Vianney Kambale, David Krame Kadurha, Ali Deeb, Fadi Al Machot, Taha Bernabia, Kyandoghere Kyamakya** |

| **Time: 11.40-12:00** |
| --- |
| **Automatie classification of a full-thickness macular hole in optical coherence tomography imagesby Jakob Wasserman, Andrzej Dziech, Remigiusz Haran, Michael Windisch, Jakub Wojniak, Pawel Domin** |

**12:00-12:20
Coffee Break**

**Conference Room B'**

| **Time: 09.00-09:20** |
| --- |
| **A critical survey on wireless network for achieving the QoS for video transmission.by Pundalik Chavan** |

| **Time: 09.20-09:40** |
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| **Telemetry of Coal Miners Using Smart JacketBy Vanitha U, Aakaash V S, Arvinth R A, Ashwin T, Bhagavathidharshan B** |
| **Time: 09:40-10:00** |
| **An Euclidean Jordan Algebra of Symmetric Matrices Closed for the Schur Product** **By Luis Vieira** |

| **Time: 10.00-10:20** |
| --- |
| **Artificial Intelligence and Mentoring: Inferring dropout and managing mentoringby Bruno Silva, Eduardo Pires, António Paulino, João Barroso, Arsénio Reis** |

| **Time: 10.20-10:40** |
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| **Controlling the polarization of segmentelectrics while increasing the specific power and specific energy of the powertrain to increase the idle speed and reduce the charging time of electric vehiclesby Vladimir Zubtsov** |

| **Time: 10.40-11:00** |
| --- |
| **Timely detection of diabetes with SVM, Neural Network and Deep Neural Networkby Rumen Valchev, Miroslav Nikolov, Ognyan Nakov, Milena Lazarova, Valeri Mladenov** |

**12:00-12:20
Coffee Break**

**Conference Room A'**

| **Time: 12.20-12:40** |
| --- |
| **Particle Accelerators and Gamma-Therapeutic Devices - an Effective Tool for Cancer Treatmentby Vladimir Krasilnikov, Eduard Kuplennikovч** |
| **Time: 12:40-13:00** |
| **Comparison of K-means, K-means++, X-means and Single Value Decomposition for Image Compressionby Krista Rizman Žalik, Mitja Žalik** |

| **Time: 13.00-13:20** |
| --- |
| **Artificial Dataset Generation for Modeling and Simulation of Shared Electric Automated and Connected Mobility Systems with Autonomous Repositioning: A Surveyby Antoine Kayisu Kazadi, Witesyavwirwa Vianney Kambale, Taha Bernabia, Ali Deeb, Pitshou Bokoro, Kyandoghere Kyamakya** |

| **Time: 13.20-13:40** |
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| **Assessing How Large Language Models can be Integrated with or Used for Blockchain Technology : Overview and Illustrative Case Studyby Jean Gilbert Mbula Mboma, Obed Tshimanga Tshipata, Witesyavwirwa Vianney Kambale, Kyandoghere Kyamakya** |

| **Time: 13.40-14:00** |
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| **Automatic Detection of Defective Metal Pressed Components Using Artificial Intelligenceby Ari Aharari, Kaoru Inaba, Farhad Mehdipour** |

| **Time: 14.00-14:20** |
| --- |
| **Quantitative Management of Business Disbursements by Portfolio Optimizationby Todor Stoilov, Krasimira Stoilova** |
| **Time: 14.20-14:40** |
| **Optimization Models for Urban Traffic Managementby Krasimira Stoilova, Todor Stoilov** |

| **Time: 14.40-15:00** |
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| **A Boxplot Metadata Configuration Impact on Time Series Forecasting and Transfer Learningby Witesyavwirwa Vianney Kambale,Ali Deeb,Taha Bernabia,Fadi Al Machot, Kyandoghere Kyamakya** |

| **Time: 15.00-15:20** |
| --- |
| **Production of Parts from Metal Powder - Advanced Technologiesby Dimitar Karastoyanov, Todor Penchev, Vladimir Monov** |

**15:20-15:50
Coffee Break**

**Conference Room B'**

| **Time: 12.20-12:40** |
| --- |
| **A New Method of Image Steganography Technique Based On Fingerprint With Qr-Code Using Watermarking Techniqueby** **Manoj Kumar Sharma, Nidhi Bansal, Suraj Malik, Gaurav Kumar** |
| **Time: 12:40-13:00** |
| **Development Arena through Cloud Computing Technologyby Nidhi Bansal, Suraj Malik, Gaurav Kumar, Manoj kumar Sharma** |

| **Time: 13.00-13:20** |
| --- |
| **Application of Splines of the Seventh Order Approximation to the Solution of Fredholm Integral Equations with Weekly Singularityby I.G.burova, G.O.Alcybeev** |

| **Time: 13.20-13:40** |
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| **Basic CMOS VLSI Circuits and Low Power Devices Employing Various Reduction Techniques to Reduce Leakage Power at Low Supply Voltage in Nanoscale Technologyby GHanshyam Singh** |

| **Time: 14.40-14:20** |
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| **Kolb Model: Learning Styles of Engineering Studentsby Sussy Bayona Oré** |

| **Time: 14.20-14:40** |
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| **Bearing Fault Diagnosis of WDCNN-LSTM in Siamese Networkby Daehwan Lee, Jongpil Jeong, Chaegyu Lee, Hakjun Moon, Jaeuk Lee and Dongyoung Lee** |
| **Time: 14.40-15:00** |
| **Timely detection of diabetes with SVM, Neural Network and Deep Neural Networkby Rumen Valchev, Miroslav Nikolov, Ognyan Nakov, Milena Lazarova, Valeri Mladenov** |

| **Time: 15.00-15:20** |
| --- |
| **Drug Dosage Computing System for Control of Anaesthetic and Hemodynamic Variableby UMAMAHESWARI.K** |

**15:20-15:50
Coffee Break**

**CONFERENCE PROGRAMME**

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**Saturday, July 22, 2023**

**Conference Excursion**

The Following Articles will be presented electronically and will be posted here <https://www.interbit-research.com/presentations.html>

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| Title | Authors |
| Conversion of Atmospheric Carbone Dioxide into Minerals at Room Conditions Using the Sea Water with Various Additives | Muthana AL-Gburi |
| Realtime Detection of Table Objects and Text Areas for OCR Preprocessing | Hangseo choi, jongpil jeong |
| Container BIC-Code Recognition Algorithm Based on the Convergence of a 1-Stage Detector and a 2-Stage Detector | Hangseo choi, jongpil jeong, seokwoo yun, kyunga bang, jaebeom byun |
| Microfinance Digitalization and Its Perception by Citizens in Kosovo | Shpresim Vranovci |
| Fighting Crime with CNN-Based Image Processing: A Study on Signature Forgery Detect | Ossama H. Embarak1, Maryam Almesmari , Maryam Alameeri , Fatima Aldarmaki |
| “Review Paper on Prediction of Transmission Network Congestion using AI Techniques” | Sandeep A. Kale, Dr. Nitin D. Ghawghawe |
| Gaussian Location Mixtures | Miguel Felgueiras, João Martins, Rui Santos |
| A Machine-Learning Approach for Prognosis of Oscillating Water Column Wave Generators | Izaskun Garrido, Jon Lecube, Fares Mzoughi, Payam Aboutalebi, Irfan Ahmad, Salvador Cayuela, Aitor Garrido |
| Implementation And Risk Of Management Application In The Field Of Innovation And Entrepreneurship | Besnik Hajdari |
| Relational analysis between‘Activity’ and ‘Effort’ as Quantitative Parameters of Software Projects |  Ekbal Rashid |
| The Challenges with Implementation and Security of Next-Generation (6G) Networks | Parvinder Singh, Pardeep Kumar |
| Effect Of A Specially Pulsed Magnetic Field On Wound Healing In Rat Skin | Selcuk Comlekci |
| Ordering of small parameters in nonlinear wave problems | Georgy I. Burde |
| The influence of different seed positions on mechanical properties of stochastic structures with semi-controlled nodes | Inga Krešić, Jasmin Kaljun, Nebojša Rašović |
| Human Resources Strategies & Lessons Learned During the COVID-19 Pandemic: A Literature Review | Queenie c. Plater, marquise d. Frazier, patricia y. Talbert, vivian h. Davis, payton s. Talbert |
| A continuum space is the infinitely great | Qing Li |
| Critical Discourse Analysis of the Cyberlanguage used by Libyan Adolescents | Nadia Nuseir |
| On the new properties of conditional expectations and sequences of predicted random variables | Ismihan Bayramoglu |
| Towards The Preparation Of Quality Foundation Phase Teachers In The University: The Attitude And Improvisation Skills Of First Year Students | Lulama Aletta Kahla |
| Resource Allocations Using Complete Graphs for D2D Communications | Tsang-Ling Sheu and Yen-Chieh Chiu |
| Topology: from pure mathematics to applications in mathematical physics, to engineering sciences and to data analysis | Philippe Durand |
| A review of Deep Learning Techniques and application for Image Captioning | Amruta R. Chougale |
| Study of Voltage controlled oscillator for the applications in K-band and the proposal of a tunable VCO | Garima kapur, Rajni Parashar |
| Environmental management - methodology and efficiency | Nadia Marinova |
| Corporate governance models and mechanisms | Nadia Marinova |
| Network Behaviour Monitoring using Deep Learning Technique | Mohd Nazri Ismail |
| An approximation modeling approach for 3D elasto-plastic stress-strain analysis of notched components under general multiaxial cyclic loadings | Ayhan Ince |
| Named Entity Recognition: A survey of Indian Languages | Seema Shukla, V N Shukla |
| Network Behaviour Monitoring using Deep Learning Technique | Mohd Nazri Ismail |
| A Comparative Study of Bipolar and Unipolar Control for Single-Phase Asynchronous Motors: SimPower System MATLAB Analysis and RTLAB Validation | Fezazi Omar, Ayad Ahmed Nour El Islam, Hasan Köten |