



**IEEE**

**IEEE 6th International Conference on Communications,  
Information, Electronic and Energy Systems**

# **CIEES 2025**

## **Program**

**November 26 - 28, 2025  
Ruse, Bulgaria**



<https://ciees.eu>



# CIEES 2025

**IEEE International Conference on  
Communications, Information, Electronic and Energy Systems**

**November 26-28, 2025,  
Ruse, Bulgaria**

## Conference Programme

**Organized by:**



Association on Communication, Information, Electronic and Energy System



IEEE  
Bulgaria Section

**Institutional Partner:**



University of Ruse  
"Angel Kanchev"



Ruse Municipality

**Supported by:**



Project "Scientific University of Ruse", funded by the European Union - NextGenerationEU, through the National Plan for Recovery and Resilience of the Republic of Bulgaria, **BG-RRP-2.013-0001**

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# Welcome to CIEES 2025

*Dear participants,*

*It is our great pleasure to welcome you to the sixth edition of the International Conference on Communications, Information, Electronic and Energy Systems (CIEES 2025). The purpose of the CIEES 2025 conference is to provide a forum for researchers, academics, industry professionals, students who are interested in the latest research and development in the area of computer science, telecommunications, electronics, signal processing, information technologies, energy systems, automotive and industrial engineering, and applications related to the electrical engineering.*

*We have prepared an exciting program of plenary sessions delivered not only by respected professors and academic speakers on visionary topics, but also featuring a distinguished lecture from SUNOTEC. SUNOTEC offers expertly integrated solar solutions, internationally proven expertise, and a strong commitment to resource efficiency and business reliability for all customers. In addition, industry professionals have prepared technical presentation on the integration of energy storage systems, which are set to revolutionize the energy industry and drive sustainable solutions for a greener future.*

*The technical programme, plenary talks and exhibition are organized by the Association on Communication, Information, Electronic and Energy System and held under the auspices of the IEEE Bulgaria Section. The venue is located at the University of Ruse "Angel Kanchev", Ruse, Bulgaria.*

*We would like to express our gratitude to MDPI Journal Electronics (Journal Rank: CiteScore – Q2, IF 2.6) for becoming a Media Partner of the CIEES 2025, to our Institutional partner, the University of Ruse "Angel Kanchev", Bulgaria; to the TPC members, conference chairs and reviewers for their efforts in creating a successful and rigorous technical programme. We are also grateful to SUNOTEC for becoming an official sponsor of the CIEES 2025, and to the Project "Scientific University of Ruse", funded by the European Union - NextGenerationEU, through the National Plan for Recovery and Resilience of the Republic of Bulgaria, BG-RRP-2.013-0001, for supporting this event. We thank all the above-mentioned partners for their cooperation and for their technical and financial support.*

*We hope you will find CIEES 2025 inspiring, that you will enjoy the interesting talks, and that you will engage in meaningful discussions on the topics presented. We are confident that this conference will be a stimulating and rewarding experience, and we hope that you will also have an enjoyable and memorable time during the conference. Welcome and enjoy your time in Ruse, Bulgaria.*

*Welcome and enjoy your time in Ruse, Bulgaria.*



**Teodor ILIEV**  
General Conference Chair



**Ivaylo STOYANOV**  
General Conference Chair

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# CIEES 2025 CONFERENCE – SESSION SCHEDULE

Wednesday, November 26, 2025

Time	Session name	Place	Virtual Room
14:00 - 16:00	Registration	The Foyer Area in front of Hall 2G.204 (Siemens Hall)	
15:30 - 15:45	Opening Ceremony & Welcome Remarks by the Official Guests	2G.204 (Siemens Hall)	<a href="#">VR Hall 1</a>
15:45 - 17:00	Plenary Keynote Lectures	2G.204 (Siemens Hall)	<a href="#">VR Hall 1</a>
17:00 - 18:00	Project dissemination	2G.204 (Siemens Hall)	
17:30 - 19:00	Automotive and Industrial Engineering 1	Online	<a href="#">VR Hall 1</a>
17:30 - 19:00	Telecommunication Systems 1	Online	<a href="#">VR Hall 2</a>
19:30 – 22:00	Cocktail	Dunav Plaza Hotel Restaurant <b>A La Carte</b>	



Join CIEES2025 via the following **ZOOM** links:



## VR\_Hall 1

Meeting ID: **602 711 7207**

Passcode: **BBXmV6**

URL: <https://us06web.zoom.us/j/6027117207?pwd=YlhBOUU4RkY5UkxxaU9JclBOeWtJZz09>



## VR\_Hall 2

Meeting ID: **472 970 9196**

Passcode: **R8T4ZK**

URL: <https://us06web.zoom.us/j/4729709196?pwd=YkM4cHQvSDZsWE9sMGxVVGZJeGRxZz09>



### IMPORTANT:

1. Please note that at least one author per paper is requested to attend their session.
2. All times are presented in [Eastern European Time \(EET\)](#), so be careful in the recalculation to your national time zone. (EET= CET+1=GMT +2)

The details for joining the scheduled conference sessions on Zoom platform will be available on the official website.

Thursday, November 27, 2025

In person sessions

Time	Session name	Place	Type
09:00 - 12:00	Registration	The Foyer Area in front of Hall 2G.204 (Siemens Hall)	-
09:00 - 10:30	Information Technologies and Artificial Intelligence 1	2.205	In person
09:00 - 10:30	Automotive and Industrial Engineering 2	2.206	In person
10:30 - 11:00	Coffee break	2.203	-
11:00 - 12:30	Information Technologies and Artificial Intelligence 2	2.205	In person
11:00 - 12:30	Energy and Renewable Sources 1	2.206	In person
11:00 - 12:30	Smart Telecommunications, Industry and Services 1	2.207	In person
12:30 - 13:30	Lunch	2.203	-
13:30 - 15:00	Telecommunication Systems 2	2.205	In person
13:30 - 15:00	Biomedical Engineering 1 and Electronics, Power Electronics and EMC 1	2.206	In person
15:00 - 15:30	Coffee break	2.203	-
15:30 - 17:00	Energy and Renewable Sources 2	2.205	In person
15:30 - 17:00	Power System & Smart Cities 1, Smart Telecommunications, Industry and Services 2	2.206	In person
19:00 – 23:00	Conference Dinner	Dunav Plaza Hotel Restaurant <b>PLAZA</b>	

Thursday, November 27, 2025

Online sessions

Time	Session name	Virtual Room	Type
09:00 - 10:30	Telecommunication Systems 3	<a href="#">VR Hall 1</a>	Online
09:00 - 10:30	Electronics, Power Electronics and EMC 2	<a href="#">VR Hall 2</a>	Online
10:45 - 12:15	Information Technologies and Artificial Intelligence 3	<a href="#">VR Hall 1</a>	Online
10:45 - 12:15	Energy and Renewable Sources 3	<a href="#">VR Hall 2</a>	Online
12:30 - 14:00	Information Technologies and Artificial Intelligence 4	<a href="#">VR Hall 1</a>	Online
12:30 - 14:00	Biomedical Engineering 2	<a href="#">VR Hall 2</a>	Online
14:15 - 15:45	Information Technologies and Artificial Intelligence 5	<a href="#">VR Hall 1</a>	Online
14:15 - 15:45	Power System & Smart Cities 2	<a href="#">VR Hall 2</a>	Online
16:00 - 17:30	Information Technologies and Artificial Intelligence 6	<a href="#">VR Hall 1</a>	Online
16:00 - 17:30	Smart Telecommunications, Industry and Services 3	<a href="#">VR Hall 2</a>	Online
17:45 - 19:15	Information Technologies and Artificial Intelligence 7	<a href="#">VR Hall 1</a>	Online
17:45 - 19:15	Smart Telecommunications, Industry and Services 4	<a href="#">VR Hall 2</a>	Online

Friday, November 28, 2025

Online sessions

Time	Session name	Virtual Room	Type
09:00 - 10:45	Mechatronics and Industrial Automation 1	<a href="#">VR Hall 1</a>	Online
09:00 - 10:45	Energy Efficiency and Applied Thermodynamics 1	<a href="#">VR Hall 2</a>	Online
11:00 - 12:00	Student Session	<a href="#">VR Hall 2</a>	Online
12:00 - 12:10	Closing Ceremony	<a href="#">VR Hall 1</a>	Online

# CIEES 2025 Conference – Session List

Wednesday, November 26, 2025

<b>Session:</b>	<b>Opening Ceremony</b>	<b>Time:</b>	<b>15:30 - 17:00</b>
<b>Hall:</b>	<b>University of Ruse, Building 2, Sector G, Room 204 (Siemens Hall),</b>	<b>Virtual room:</b>	<a href="#">VR Hall 1</a>

<b>Time</b>	<b>Schedule</b>
15:30	<b>Opening Ceremony &amp; Welcome Remarks by the Official Guests</b> Anastasia Nazarova, Master of Ceremony <i>University of Ruse, Bulgaria</i>
15:45	<b>Plenary Keynote Session</b> Teodor Iliev, Chair <i>University of Ruse, Bulgaria</i>
15:50	<b>The Energy Transition in Japan: Current Situation and Future Prospects</b> Prof. Dimiter Ialnazov, PhD <i>Graduate School of Advanced Integrated Studies in Human Survivability (GSAIS), Kyoto University, Japan</i>
16:15	<b>Multifunctional Robotic System for Sequential Assignment</b> Assoc. Prof. Kuanish Alipbayev, PhD <i>Almaty University of Power Engineering and Telecommunications named after G. Daukeyev, Almaty, Kazakhstan</i>
16:40	<b>Innovative Approach for BESS based PV Power Integration</b> Vladimir Zinoviev <i>SUNOTEC Group</i>

## Keynote Speakers



**Prof. Dimiter Ialnazov, PhD**

Graduate School of Advanced Integrated Studies in Human Survivability (GSAIS),  
Kyoto University, Japan

E-mail: [ialnazov.dimitersavov.8w@kyoto-u.ac.jp](mailto:ialnazov.dimitersavov.8w@kyoto-u.ac.jp)

**Presentation: The Energy Transition in Japan: Current Situation and Future Prospects**

**Short biography:** Prof. Dimiter Ialnazov, PhD received his B.Sc./M.Sc. (1987) in Political Economy, Moscow State University “M. V. Lomonosov”, Moscow, former Soviet Union; Ph.D. in economics from the Kanazawa University, Kanazawa, Japan in March 1997.

He is currently employed as a full professor at the Graduate School of Advanced Integrated Studies in Human Survivability (GSAIS), Kyoto University, Japan. Research interests: sustainability, the energy transition, international economics, and development economics. He is the author of more than hundred scientific works, over thirty reviews, books and others.



**Assoc. Prof. Kuanish Alipbayev, PhD**

Almaty University of Power Engineering and Telecommunications named after G.  
Daukeyev, Almaty, Kazakhstan

E-mail: [k.alipbayev@aes.kz](mailto:k.alipbayev@aes.kz)

**Presentation: Multifunctional Robotic System for Sequential Assignment**

**Short biography:** Dr. Kuanish Alipbayev obtained his Bachelor's, Master's, and PhD degrees in Mechanics from al-Farabi Kazakh National University. In addition, he holds a degree in Finance (Kazakhstan Innovative University, 2014) and an MBA (AlmaU, 2024). Dr. Alipbayev's professional career is closely connected with aerospace engineering and information technologies. Since 2009, he has worked at the Institute of Space Technology and Technology. Since 2017, he has been affiliated with the Almaty University of Power Engineering and Telecommunications, where he served as Associate Professor, Head of the Department, Director of the Institute, and, since 2024, Vice-Rector for Science. For his contribution to the development of science and education, Dr. Alipbayev was awarded the medal “For Contribution to the Development of the Space Industry” by the Ministry of Digital Development, Innovations and Aerospace Industry of Kazakhstan, and was recognized as “Best University Teacher” (2019) and “Best Engineer of Kazakhstan” (2020).



**Vladimir Zinoviev, PhD**

SUNOTEC Group

E-mail: [vladyzin@gmail.com](mailto:vladyzin@gmail.com)

**Presentation: Innovative Approach for BESS based PV Power Integration**

**Short biography:** Dr. Vladimir Zinoviev, received his M.Sc (2003) from University of National and World Economy, Bulgaria and PhD degree in Sustainable Development of Southeast Europe, Supreme Assessment Committee, Bulgaria in 2006.

His work experience includes: Former Group COO Sunotec Group, Former CEO and Member of the Board of Directors of RES companies of CEZ. Founder and Sole Owner of Smart Consulting Group Ltd.

# IN PERSON SESSIONS



# CIEES 2025 Conference – Session List

Wednesday, November 26, 2025

<b>Session:</b>	<b>Project Dissemination</b>	<b>Time:</b>	<b>17:00 - 18:00</b>
<b>Chair:</b>	<b>Prof. Bogdan Popa, Romania</b>		
<b>Hall:</b>	<b>2G.204 (Siemens Hall)</b>	<b>In person</b>	

<b>No</b>	<b>Project</b>
P1	<p><b>Scientific University of Ruse: The Strategic Vision for Transition to 5th Generation University</b>  <b>Assoc. Prof. Natalia Venelinova, PhD</b>  <i>University of Ruse “Angel Kanchev”, Bulgaria</i></p>
P2	<p><b>Lab L6S3: “Human Comfort, Energy and Environment“</b>  <b>Professor Rositsa Velichkova, PhD</b>  <i>Technical University of Sofia, Bulgaria</i></p>
P3	<p><b>Scientific University of Ruse: Research Group 3.1.5. Laboratory Digital Energy Systems 4.0</b>  <b>Professor Boris Evstatiev, DSc</b>  <i>University of Ruse “Angel Kanchev”, Bulgaria</i></p>
P4	<p><b>Intelligent Asset Management Platform for Hydropower Operation and Maintenance – iAMP-Hydro</b>  <b>Professor Bogdan Popa, PhD</b>  <i>National University of Science and Technology POLITEHNICA Bucharest, Romania</i></p>

Thursday, November 27, 2025

<b>Session:</b>	<b>Information Technologies and Artificial Intelligence 1</b>	<b>Time:</b>	<b>09:00 - 10:30</b>
<b>Chair:</b>	<b>Selahattin KOŞUNALP, Türkiye</b>		
<b>Hall:</b>	<b>2.205</b>	<b>In person</b>	

<b>No</b>	<b>Paper</b>
ID101	<p><b>Intelligent Fault Diagnosis of Induction Motor Bearings using SVM Algorithm for Predictive Maintenance Industrial Applications</b>            Vasileios I. Vlachou <sup>1</sup>, <b>Theoklitos S. Karakatsanis</b> <sup>2</sup>, Dimitrios E. Efstathiou <sup>3</sup>, Stavros D. Vologiannidis <sup>3</sup>, Agisilaos E. Efraimidis <sup>3</sup> and Eftychios I. Vlachou <sup>3</sup>  <sup>1</sup> <i>National Technical University of Athens, Athens, Greece</i>  <sup>2</sup> <i>Democritus University of Thrace, Xanthi, Greece</i>  <sup>3</sup> <i>International Hellenic University, Serres, Greece</i></p>
ID245	<p><b>Design Concept of an Automated Laboratory Platform for Capturing Hyperspectral Images</b>            Georgi Manchev, <b>Stanislav Penchev</b>, and Plamen Daskalov  <i>University of Ruse "Angel Kanchev", Ruse, Bulgaria</i></p>
ID260	<p><b>A Decoupled Biophysically-Inspired Architecture for Speech Enhancement</b>  <b>Daniel Zakševski</b>, Gražina Korvel and Gintautas Tamulevičius  <i>Vilnius University, Vilnius, Lithuania</i></p>
ID271	<p><b>Digital Evaluation of Maize Plants Chlorophyll using Machine Learning Techniques and Regression Models</b>            Tsvetelina Georgieva, <b>Svetoslav Petrov</b>, and Plamen Daskalov  <i>University of Ruse "Angel Kanchev", Ruse, Bulgaria</i></p>
ID347	<p><b>Comparative Analysis of GARCH-Family and LSTM-Based Models for Volatility Forecasting: Evidence from the Borsa İstanbul (BIST 100) Index</b>  <b>Selahattin Kosunalp</b>, and Adem Korkmaz  <i>Bandırma Onyedi Eylül University, Balıkesir, Türkiye</i></p>
ID350	<p><b>The Evolving Landscape of AI in Biomedical Imaging: A Decade of Intelligent Digital Health Ecosystems (2019-2025)</b>  <b>Selahattin Kosunalp</b> <sup>1</sup>, Selma Bulut <sup>2</sup>, and Adem Korkmaz <sup>1</sup>  <sup>1</sup> <i>Bandırma Onyedi Eylül University, Balıkesir, Türkiye</i>  <sup>2</sup> <i>Kırklareli University, Kırklareli, Türkiye</i></p>

Thursday, November 27, 2025

<b>Session:</b>	<b>Automotive and Industrial Engineering 2</b>	<b>Time:</b>	<b>09:00 - 10:30</b>
<b>Chair:</b>	<b>Pavel VITLIEMOV, Bulgaria</b>		
<b>Hall:</b>	<b>2.206</b>	<b>In person</b>	

<b>№</b>	<b>Paper</b>
ID123	<p><b>Application of the Digital Transformation in Training and Optimization for Effective Management of Transport Activities</b>  <b>Denitsa Miteva</b>, Dimitar Grozev, and Ivan Beloev  <i>University of Ruse "Angel Kanchev", Ruse, Bulgaria</i></p>
ID86	<p><b>Novel Concept for Drone-based Situational Driver Assistance System to Improve Visibility in Off-road Environments</b>  <b>Jörg Kneip</b><sup>1</sup>, and Mario Hirz<sup>2</sup>  <sup>1</sup> Mercedes-Benz G GmbH, Raaba, Austria  <sup>2</sup> Graz University of Technology, Graz, Austria</p>
ID128	<p><b>An Approach to Design a Competence Evaluation System for HMLV Manufacturing</b>  <b>Kristian Tsvetkov</b><sup>1</sup>, Pavel Vitliemov<sup>1</sup>, and Tzvetelin Gueorguiev<sup>2</sup>  <sup>1</sup> University of Ruse "Angel Kanchev", Ruse, Bulgaria  <sup>2</sup> Technical University of Gabrovo, Gabrovo, Bulgaria</p>
ID189	<p><b>Investigation of the Environmental Performance of a Diesel Engine Operating with Alcohol Additives</b>  Velichka Georgieva<sup>1</sup>, <b>Radostin Dimitrov</b><sup>1</sup>, and Simeon P. Iliev<sup>2</sup>  <sup>1</sup> Technical University of Varna, Varna, Bulgaria  <sup>2</sup> University of Ruse "Angel Kanchev", Ruse, Bulgaria</p>
ID188	<p><b>Investigation of Dual-fuel Diesel Engine Performance with Ammonia and Change of Compression Ratio</b>  <b>Simeon P. Iliev</b><sup>1</sup>, Radostin Dimitrov<sup>2</sup>, and Velichka Georgieva<sup>2</sup>  <sup>1</sup> University of Ruse "Angel Kanchev", Ruse, Bulgaria  <sup>2</sup> Technical University of Varna, Varna, Bulgaria</p>
ID253	<p><b>Numerical Modelling of the Thermal State of a Cylinder Head. Fundamental Principles and Model Adequacy</b>  <b>Delyan Petkov</b><sup>1</sup>, and Simeon P. Iliev<sup>2</sup>  <sup>1</sup> Technical University of Varna, Varna, Bulgaria  <sup>2</sup> University of Ruse "Angel Kanchev", Ruse, Bulgaria</p>
ID80	<p><b>Critical Review of Quality Management in HMLV Manufacturing</b>  <b>Kristian Tsvetkov</b>, and Pavel Vitliemov  <i>University of Ruse "Angel Kanchev", Ruse, Bulgaria</i></p>

Thursday, November 27, 2025

<b>Session:</b>	<b>Information Technologies and Artificial Intelligence 2</b>	<b>Time:</b>	<b>11:00 - 12:30</b>
<b>Chair:</b>	<b>Adnan KAVAK, Türkiye</b>		
<b>Hall:</b>	<b>2.205</b>	<b>In person</b>	

<b>№</b>	<b>Paper</b>
ID321	<p><b>Performance Evaluation of Alternative Programming Techniques in PHP</b>  <b>Yordan Kalmukov</b>  <i>University of Ruse "Angel Kanchev", Ruse, Bulgaria</i></p>
ID103	<p><b>Da-RDU-Net: Dual attention and residual double U-Net for colorectal polyp segmentation</b>  Md. Rashed <sup>1</sup>, Md. Imran Hossain <sup>2</sup> and <b>Adnan Kavak</b> <sup>1</sup>  <sup>1</sup> <i>Kocaeli University, İzmit Kocaeli, Türkiye</i>  <sup>2</sup> <i>Pabna University of Science and Technology, Pabna, Bangladesh</i></p>
ID312	<p><b>Advancing Computer Graphics Learning through Motion Tracking and Machine Learning</b>  <b>Elitsa Ibryamova</b>, and Galina Ivanova  <i>University of Ruse "Angel Kanchev", Ruse, Bulgaria</i></p>
ID197	<p><b>Framework for Cybersecurity Audit in Non-Profit Organizations: A Preliminary Investigation Through Intelligent Minimalism</b>  <b>Yordan Terziev</b>, and Velizar Shalamanov  <i>Institute of Information and Communication Technologies – Bulgarian Academy of Science, Sofia, Bulgaria</i></p>
ID316	<p><b>Integration of IoT and Network Technologies for the design of Escape Rooms</b>  Fatima Sapundzhi <sup>1</sup>, Metodi Popstoilov <sup>1</sup>, Teodora Bakardjieva <sup>2</sup>, Slavi Georgiev <sup>3</sup>, <b>Ivan Georgiev</b> <sup>3</sup>, Antonina Ivanova <sup>2</sup>, Georgi Georgiev <sup>2</sup>, Meglena Lazarova <sup>4</sup>  <sup>1</sup> <i>South-West University, Bulgaria</i>  <sup>2</sup> <i>Varna Free University, Bulgaria</i>  <sup>3</sup> <i>University of Ruse "Angel Kanchev", Ruse, Bulgaria</i>  <sup>4</sup> <i>Technical University of Sofia, Bulgaria</i></p>
ID125	<p><b>Detection of Cyber Threats Over Private and Corporate Clients By Artificial Intelligence</b>  Ivelina Balabanova and <b>Georgi Georgiev</b>  <i>Technical University of Gabrovo, Gabrovo, Bulgaria</i></p>

Thursday, November 27, 2025

<b>Session:</b>	<b>Energy and Renewable Sources 1</b>	<b>Time:</b>	<b>11:00 - 12:30</b>
<b>Chair:</b>	<b>Magdalena DUDEK, Poland</b>		
<b>Hall:</b>	<b>2.206</b>	<b>In person</b>	

<b>No</b>	<b>Paper</b>
ID174	<p><b>Preparation of an Environmental Impact and Risk Assessment Focusing on Mining Activities in the Sajó/Slaná River Basin</b> Martina Zeleňáková <sup>1</sup>, Rositsa Velichkova <sup>2</sup>, Pavol Purcz <sup>1</sup>, Iskra Simova <sup>2</sup>, Timotej Brenkus <sup>1</sup> and Hany Abd Elhamid <sup>1</sup> <sup>1</sup> <i>Technical University of Košice, Košice, Slovakia</i> <sup>2</sup> <i>Technical University of Sofia, Sofia, Bulgaria</i></p>
ID220	<p><b>Integrated Potential for Wind and Solar Energy in the Context of Sustainable Development of the Coastal Regions of Bulgaria</b> Rositsa Velichkova, Iskra Simova, Elitsa Gieva, Angel Aleksandrov and Aleksandar Stanilov <i>Technical University of Sofia, Sofia, Bulgaria</i></p>
ID152	<p><b>Multicriteria Approach to Selecting Sites for Pumped-Storage Hydropower Plants</b> Andrei Pisičă, Eliza-Isabela Tică, Angela Neagoe, and Bogdan Popa <i>National University of Science and Technology POLITEHNICA Bucharest, Bucharest, Romania</i></p>
ID176	<p><b>Comparison of Geoinformatics Tools for Hydrological Modeling of Floods</b> Marian Dobransky, Kristian Micko, and Pavol Purcz <i>Technical University of Kosice, Kosice, Slovakia</i></p>
ID233	<p><b>Opportunities for using Combined Energy Production from Livestock Manure and Running Water Energy in Bulgaria</b> Rositsa Velichkova <sup>1</sup>, Iskra Simova <sup>1</sup>, Angel Aleksandrov <sup>1</sup>, Rangel Sharkov <sup>1</sup>, Aleksandar Stanilov <sup>1</sup> and Milka Uzunova <sup>2</sup> <sup>1</sup> <i>Technical University of Sofia, Sofia, Bulgaria</i> <sup>2</sup> <i>ECAM-EPMI, Graduate School of Engineering, Cergy-Pontoise, France</i></p>
ID302	<p><b>Hydrogen Storage Systems using Reversible Metal Hydride Technology as a Power Source for Fuel Cells in Stationary and Mobile Applications</b> Magdalena Dudek <sup>1</sup>, Andrzej Raźniak <sup>1</sup>, Mikołaj Zarzycki <sup>2</sup>, Piotr Dudek <sup>1</sup>, Ilia Iliev <sup>3</sup> and Jarosław Markowski <sup>2</sup> <sup>1</sup> <i>AGH University of Krakow, Kraków, Poland</i> <sup>2</sup> <i>Industrial Research Institute for Automation and Measurements, Warszawa, Poland</i> <sup>3</sup> <i>University of Ruse "Angel Kanchev", Ruse, Bulgaria</i> <sup>4</sup> <i>Poznan University of Technology Poznan, Poland</i></p>
ID145	<p><b>Statistical Analysis of the Price of Electrical Energy on the Bulgarian Energy Market</b> Kamen Simeonov, Boris Evstatiev, and Atanas Atanasov <i>University of Ruse "Angel Kanchev", Ruse, Bulgaria</i></p>

Thursday, November 27, 2025

<b>Session:</b>	<b>Smart Telecommunications, Industry and Services 1</b>	<b>Time:</b>	<b>11:00 - 12:30</b>
<b>Chair:</b>	<b>Dimitar KOLEV, Bulgaria</b>		
<b>Hall:</b>	<b>2.207</b>	<b>In person</b>	

<b>№</b>	<b>Paper</b>
ID169	<p><b>Analysis of the Efficiency of Devices for Reactive Power Compensation in Traction Substations</b>  <b>Vasil Dimitrov</b>  <i>Todor Kableshkov University of transport, Sofia, Bulgaria</i></p>
ID185	<p><b>An Instructional Method for Designing (15,7) BCH Codes Capable of Correcting Two Errors and Its Use in University Teaching</b>  <b>Adriana Borodzhieva</b>  <i>University of Ruse "Angel Kanchev", Ruse, Bulgaria</i></p>
ID288	<p><b>Design of MCU Controlled Universal Motor Driver for Remote Operation</b>  <b>Svetoslav Dimitrov, and Seher Kadirova</b>  <i>University of Ruse "Angel Kanchev", Ruse, Bulgaria</i></p>
ID124	<p><b>Creative education in the age of AI-driven networks: challenges and opportunities for Intelligent Learning Systems</b>  <b>Denitsa Miteva, Dimitar Grozev, Ivan Beloev</b>  <i>University of Ruse "Angel Kanchev", Ruse, Bulgaria</i></p>
ID126	<p><b>Engineering framework for integration of AI technologies in research and academic library infrastructures</b>  <b>Viktoriya Ivanova</b>  <i>University of Ruse "Angel Kanchev", Ruse, Bulgaria</i></p>
ID76	<p><b>An Approach for Designing and Deploying a Hybrid Mobile Base Station Power Supply</b>  <b>Ivelin Stoykov <sup>1</sup>, Grigor Mihaylov <sup>2</sup>, and Teodora Hristova <sup>3</sup></b>  <sup>1</sup> <i>CETIN Bulgaria Ltd., Sofia, Bulgaria</i>  <sup>2</sup> <i>University of Telecommunication and Post, Sofia, Bulgaria</i>  <sup>3</sup> <i>University of Mining and Geology "St. Ivan Rilski, Sofia, Bulgaria</i></p>
ID278	<p><b>A Study on the Use of AI by University Lecturers in Higher Education in Bulgaria</b>  <b>Diana Ilieva, Dimitar Kolev, and Victor Gladchenko</b>  <i>University of Telecommunications and Post, Sofia, Bulgaria</i></p>

Thursday, November 27, 2025

<b>Session:</b>	<b>Telecommunication Systems 2</b>	<b>Time:</b>	<b>13:30 – 15:00</b>
<b>Chair:</b>	<b>Ivan BLAGOEV, Bulgaria</b>		
<b>Hall:</b>	<b>2.205</b>	<b>In person</b>	

<b>№</b>	<b>Paper</b>
ID314	<p><b>Extension of the Hill Cipher via Rhotrices and Heart-Oriented Multiplication with MS Excel Implementations for R3 and R5 Cases</b>  <b>Adriana Borodzhieva</b>  <i>University of Ruse “Angel Kanchev”, Ruse, Bulgaria</i></p>
ID159	<p><b>Multi-Technology Wireless Communication for Internet of Things Applications Enhancing Robustness and Redundancy</b>  <b>Ondřej Šolc and Tomáš Martinec</b>  <i>Technical University of Liberec, Liberec, Czech Republic</i></p>
ID254	<p><b>LightGBM for Slice Recognition at 5G PHY and MAC Layers</b>  <b>Rosy Altawil</b><sup>1,2</sup>, Lucas Delolme<sup>1</sup>, Vincent Audebert<sup>1</sup> and Philippe Martins<sup>2</sup>  <sup>1</sup> EDF R&amp;D, Palaiseau, Paris  <sup>2</sup> Télécom Paris, Palaiseau, Paris</p>
ID300	<p><b>Low-Power Motion Event Detection in Maritime Environments</b>  <b>Mohamad Omran, Tim Brockmann, Benjamin Rother, Frank Golatowski and Christian Haubelt</b>  <i>University of Rostock, Rostock, Germany</i></p>
ID228	<p><b>Residue Number System-Driven DNA Cryptography for Telecommunication Security Education: Algorithm Design and Its Implementation using Computer-Based Tools</b>  <b>Adriana Borodzhieva</b>  <i>University of Ruse “Angel Kanchev”, Ruse, Bulgaria</i></p>
ID320	<p><b>An Integrated Approach to Evaluating E-commerce Platforms Using Postman and Selenium</b>  Fatima Sapundzhi<sup>1</sup>, <b>Slavi Georgiev</b><sup>2</sup>, Venelin Todorov<sup>1</sup>, Elizabeta Jovanova<sup>1</sup>, Ivan Georgiev<sup>2</sup>, Metodi Popstoilov<sup>1</sup>, Tsvetelina Stefanova<sup>2</sup> and Venelin Todorov<sup>3</sup>  <sup>1</sup> West University “Neofit Rilski”, Blagoevgrad, Bulgaria  <sup>2</sup> University of Ruse, Ruse, Bulgaria  <sup>3</sup> Bulgarian Academy of Sciences, Sofia, Bulgaria</p>
ID77	<p><b>Performance Comparisons between Smart Antenna and MIMO Radar in Interference Environments</b>  <b>Hyeon-Cheol Lee, Sang Gyu Lee, Sang Burm Ryu, Eun Su Kang, Myung Jin Baek, and Jinhyuck Kim</b>  <i>Korea Aerospace Research Institute, Daejeon, Republic of Korea</i></p>
ID194	<p><b>Hybrid VoIP Solution to Address Regional ISP Challenges</b>  Iliyan Iliiev, <b>Ivan Blagoev</b>, and Yordan Terziev  <i>Institute of Information and Communication Technologies – Bulgarian Academy of Science, Sofia, Bulgaria</i></p>

Thursday, November 27, 2025

<b>Session:</b>	<b>Biomedical Engineering 1 and Electronics, Power Electronics and EMC 1</b>	<b>Time:</b>	<b>13:30 – 15:00</b>
<b>Chair:</b>	<b>Hristo HRISTOV, Bulgaria</b>		
<b>Hall:</b>	<b>2.206</b>	<b>In person</b>	

<b>№</b>	<b>Paper</b>
ID112	<p><b>Calibration-Based Pixel Non-Uniformity Correction Method for Medical Endoscopic Cameras</b>  <b>Plamen Dikulakov</b><sup>1</sup>, Aneliya Manukova<sup>1</sup>, and Deyan Levski<sup>2</sup>  <sup>1</sup> <i>University of Ruse “Angel Kanchev”, Ruse, Bulgaria</i>  <sup>2</sup> <i>Photolitics OOD, Ruse, Bulgaria</i></p>
ID131	<p><b>Inverse Modeling of Soil Moisture Dynamics Using Data from an IoT-Based Agrometeorological Sensor Station</b>  Atanas Atanasov, Miglena Koleva, and <b>Lubin Vulkov</b>  <i>University of Ruse “Angel Kanchev”, Ruse, Bulgaria</i></p>
ID54	<p><b>Information Entropy-Enhanced CNN-LSTM Model for Detecting Electromagnetic Information Leakage</b>  <b>Yiqi Yan</b>, Xingye Chen, Fei Dai and Yiyun Hu  <i>Beihang University, Beijing, China</i></p>
ID108	<p><b>Integration of Melanopic Equivalent Daylight Illuminance and controlling Color Temperature in Dynamic Lighting Control for Circadian Rhythm Regulation</b>  <b>Ventsislav Vasilev</b>, Aneliya Manukova, Orlin Petrov and Tsvetomir Gotsov  <i>University of Ruse “Angel Kanchev”, Ruse, Bulgaria</i></p>
ID166	<p><b>Electromechanical Setup for Measuring Viscoelastic Interactions of a Brain Phantom</b>  <b>Hristo Hristov</b>, Plamen Petkov, Teodor Minev, and Dimitar Prodanov  <i>Institute of Information and Communication Technologies, Bulgarian Academy of Sciences, Sofia, Bulgaria</i></p>
ID170	<p><b>Study of an Electronic Device for Monitoring Motor Activity in Dairy Cows for the Diagnosis of Hypocalcemia and Its Impact on Milk Yield</b>  <b>Hristo Hristov</b><sup>1</sup>, Elena Stancheva<sup>2</sup>, Gergana Yotova<sup>2</sup>, Dimo Dimov<sup>2</sup>, Krum Nedelkov<sup>2</sup> and Toncho Penev<sup>2</sup>  <sup>1</sup> <i>Institute of Information and Communication Technologies, Bulgarian Academy of Sciences, Sofia, Bulgaria</i>  <sup>2</sup> <i>Trakia University, Stara Zagora, Bulgaria</i></p>

Thursday, November 27, 2025

<b>Session:</b>	<b>Energy and Renewable Sources 2</b>	<b>Time:</b>	<b>15:30 – 17:00</b>
<b>Chair:</b>	<b>Teodora HRISTOVA, Bulgaria</b>		
<b>Hall:</b>	<b>2.205</b>	<b>In person</b>	

<b>No</b>	<b>Paper</b>
ID229	<p><b>Role of an Inorganic Buffer Layer for the Performance of a Flexible Perovskite Solar Cell</b>  <b>Mariya Aleksandrova</b>, Rade Tomov, and Georgy Kolev  <i>Technical University of Sofia, Sofia, Bulgaria</i></p>
ID334	<p><b>Analysis of Airflow in an Inlet Duct with an Acoustic Wave-dispersing Palisade</b>  Jaroslaw Markowski <sup>1</sup>, <b>Pawel Imilkowski</b> <sup>1</sup>, Grzegorz Wieczorkiewicz <sup>2</sup>, Iliya Iliev <sup>3</sup>,  Krzysztof Jesionek <sup>4</sup>, and Anita Zych <sup>5</sup>  <sup>1</sup> <i>Poznan University of Technology, Poznan, Poland;</i>  <sup>2</sup> <i>Technologies Ltd., Wroclaw, Poland</i>  <sup>3</sup> <i>University of Ruse “Angel Kanchev”, Ruse, Bulgaria;</i>  <sup>4</sup> <i>Witelon Collegium State University, Legnica, Poland;</i>  <sup>5</sup> <i>AGH University of Krakow, Krakow, Poland</i></p>
ID239	<p><b>Analysis of the Relationship between the Return on Investment of 12.6 kW Peak Photovoltaic System and the Hourly Changes in the Free-Market Electricity Prices for 2023 and 2024</b>  <b>Ventsislav Keseev</b>, Boris Evstatiev, Dimitar Trifonov, Nicolay Mihailov, and Nikolay Valov  <i>University of Ruse “Angel Kanchev”, Ruse, Bulgaria</i></p>
ID16	<p><b>One, Two, and Three Steps Ahead Wind Speed Prediction Using Enhanced Random Forest with Bayesian Optimisation</b>  <b>Madhiarasan Manoharan</b>, Georgios Fotis and Mirko Presser  <i>Aarhus University, Herning, Denmark</i></p>
ID345	<p><b>Energy systems in agriculture: synergies and perspectives</b>  <b>Mantas Svazas</b>, and Valdemaras Makutenas  <i>Kauno Kolegija Higher Education Institution, Kaunas, Lithuania</i></p>
ID255	<p><b>Assessing the feasibility of robotic systems for measuring internal corrosion using SWOT analysis</b>  Petar Todorov <sup>1</sup>, <b>Teodora Hristova</b> <sup>2</sup>, Grigor Mihaylov <sup>3</sup>, Luchezar Georgiev <sup>2</sup>, and Martin Boyadjiev <sup>2</sup>  <sup>1</sup> <i>Hydrogeodrill Ltd, Varna, Bulgaria</i>  <sup>2</sup> <i>University of Mining and Geology “St. Ivan Rilski, Sofia, Bulgaria</i>  <sup>3</sup> <i>University of Telecommunication and Post, Sofia, Bulgaria</i></p>

Thursday, November 27, 2025

<b>Session:</b>	<b>Power System, Smart Cities 1 &amp; Smart Telecommunications, Industry and Services 2</b>	<b>Time:</b>	<b>15:30 – 17:00</b>
<b>Chair:</b>	<b>Dimitrina KOEVA, Bulgaria</b>		
<b>Hall:</b>	<b>2.206</b>	<b>In person</b>	

<b>№</b>	<b>Paper</b>
ID307	<p><b>Progress on Developing a Sustainable BESS Technical-Economic Model by Mapping the Latest Grid-Connected Installations in Bulgaria</b>  Dimitrina Koeva <sup>1</sup>, <b>Metodi Dimitrov</b> <sup>1</sup>, and Vladimir Zinoviev <sup>2</sup>  <sup>1</sup> <i>Technical University of Gabrovo, Gabrovo, Bulgaria</i>  <sup>2</sup> <i>University of National and World Economy, Sofia, Bulgaria</i></p>
ID329	<p><b>Study of the 30-bus System with Different Degrees of Penetration of Distributed Energy Sources</b>  <b>Todor Todorov</b><sup>1</sup>, and Ivaylo Stoyanov <sup>2</sup>  <sup>1</sup> <i>AC DC ENERGY Ltd, Sofia, Bulgaria;</i>  <sup>2</sup> <i>University of Ruse “Angel Kanchev”, Ruse, Bulgaria</i></p>
ID343	<p><b>A Conceptual Model for the Evolution from Automation to Lights-Out Production</b>  <b>Nina Naydenova</b>  <i>University of Telecommunications and Post, Sofia, Bulgaria</i></p>
ID201	<p><b>Methodology for Selecting an Electric Pump and Battery Pack for a Low-thrust LRE: Computational Simulation Study</b>  <b>Kenzhebek Myrzabekov</b> <sup>1</sup>, Kuanysh Alipbayev <sup>1</sup>, Akylbek Bapyshev <sup>2</sup>, Zhandos Kozhabeck <sup>1</sup>, Nazgul Kaliyeva <sup>1</sup> and Makpal Nogaibayeva <sup>1</sup>  <sup>1</sup> <i>Almaty University of Power Engineering and Telecommunications, Almaty, Kazakhstan</i>  <sup>2</sup> <i>ALT University, Almaty, Kazakhstan</i></p>
ID236	<p><b>The Impact of Thermal Power Plants on the Sustainability of the Energy System in Condition of Large-Scale RES Penetration</b>  <b>Dimitrina Koeva</b>, and Dimitar Slavov  <i>Technical University of Gabrovo, Gabrovo, Bulgaria</i></p>
ID322	<p><b>Application and Development of CAD/CAM Technologies in the Modern Metalworking Industry</b>  <b>Fatima Sapundzhi</b> <sup>1</sup>, Deyan Vezyuv <sup>1</sup>, Slavi Georgiev <sup>2,3</sup>, Ivaylo Nikolaev <sup>2</sup>  <sup>1</sup> <i>South-West University “Neofit Rilski”, Blagoevgrad, Bulgaria</i>  <sup>2</sup> <i>University of Ruse, Ruse, Bulgaria;</i> <sup>3</sup> <i>Bulgarian Academy of Sciences, Sofia, Bulgaria</i></p>
ID244	<p><b>Automatic Control of a Flywheel Actuator for Mobile Platform Stabilization</b>  <b>Alina Fazylova</b> <sup>1,2</sup>, Kuanysh Alipbayev <sup>2</sup>, Nazgul Kaliyeva <sup>2</sup>, Orazaly Yerkin <sup>2</sup> and Teodor Iliev <sup>3</sup>  <sup>1</sup> <i>Engineering and Technological University, Almaty, Kazakhstan</i>  <sup>2</sup> <i>Almaty University of Power Engineering and Telecommunications, Almaty, Kazakhstan</i>  <sup>3</sup> <i>University of Ruse “Angel Kanchev”, Ruse, Bulgaria</i></p>

# ONLINE SESSIONS



# ZOOM



**VR\_HALL 1**

Meeting ID: **602 711 7207**

Passcode: **BBXmV6**

URL: <https://us06web.zoom.us/j/6027117207?pwd=YlhBOUU4RkY5UkxxaU9JclB0eWtJZz09>



**VR\_HALL 2**

Meeting ID: **472 970 9196**

Passcode: **R8T4ZK**

URL: <https://us06web.zoom.us/j/4729709196?pwd=YkM4cHQvSDZsWE9sMGxVVGZJeGRxZz09>

Wednesday, November 26, 2025

<b>Session:</b>	<b>Automotive and Industrial Engineering 1</b>	<b>Time:</b>	<b>17:30 - 19:00</b>
<b>Chair:</b>	<b>Dimitrios KAZOLIS, Greece</b>		
<b>Hall:</b>	<b>Online</b>	<b>Virtual room:</b>	<a href="#"><u>VR Hall 1</u></a>

<b>№</b>	<b>Paper</b>
ID69	<b>Study of the Dynamics of Changes in Vegetation Indices of Winter Wheat Varieties</b> Asparuh Atanasov, Svilen Stoyanov, Aleksandrina Bankova and Stefan Tenev <i>Technical University of Varna, Varna, Bulgaria</i>
ID88	<b>Study of the Influence of the Geometric Shape of Structural Elements on the Hydrodynamic Pattern in a Radial Precipitator</b> Aleksandrina Bankova, Anastas Yangyozov, <b>Stefan Tenev</b> and Asparuh Atanasov <i>Technical University of Varna, Varna, Bulgaria</i>
ID97	<b>Spice Modeling of CA100 Rechargeable Lithium Iron Phosphate Battery for Opel Corsa Converted Electric Vehicle</b> Dobroslav Dankov and <b>Strahil Sabev</b> <i>Technical University of Gabrovo, Gabrovo, Bulgaria</i>
ID105	<b>Developing a Functional Test Stand for Advanced Air Turbine Models</b> Anastas Yangyozov, Aleksandrina Bankova, <b>Stefan Tenev</b> and Asparuh Atanasov <i>Technical University of Varna, Varna, Bulgaria</i>
ID106	<b>Aerodynamic Analysis of Small-Scale Turbines with Complex 3D Blade Shape</b> Anastas Yangyozov, Aleksandrina Bankova, <b>Stefan Tenev</b> and Asparuh Atanasov <i>Technical University of Varna, Varna, Bulgaria</i>
ID186	<b>A Study on Fuzzy PID Controller with Parallel Structure for Electro-Hydraulic Servo System Control</b> <b>Georgi Mihalev</b> , Stanimir Yordanov, Krasimir Ormandzhiev, Stefan Ivanov, and Hristina Stoycheva <i>Technical University of Gabrovo, Gabrovo, Bulgaria</i>
ID192	<b>Design and Analysis of a Combine Hydrostatic Powertrain Drive for all Wheels</b> <b>Yordan Stoyanov</b> <i>Technical University of Sofia, Branch Plovdiv, Plovdiv, Bulgaria</i>
ID219	<b>Methods of Industrial Control applied in a Door Lock Assembling Machine</b> Ilian Iliev, and <b>Desislava Mihaylova</b> <i>Technical University of Varna, Varna, Bulgaria</i>
ID292	<b>Sidelink Communication for Unmanned Platforms' (UxU) Swarms in Challenging Scenarios</b> <b>Andreas Giannakoulas</b> , Nikolaos Karkanis, Stylianos Markou, George Kyriacou and Theodoros Kaifas <i>Democritus University of Thrace, Xanthi, Greece</i>
ID313	<b>Immutable Audit of EV Charging Sessions using Blockchain and IPFS</b> <b>Nexhibe Sejfuli-Ramadani</b> <sup>1</sup> , Jelena Gjorgjev <sup>2</sup> , Valentina Angelkoska <sup>3</sup> , Erenis Ramadani <sup>4</sup> , Florim Idrizi <sup>1</sup> , and Aleksandar Risteski <sup>5</sup> <sup>1</sup> <i>University of Tetova Tetovo, North Macedonia</i> <sup>2</sup> <i>American University of Europe - FON Skopje, North Macedonia</i> <sup>3</sup> <i>University of Skopje Skopje, North Macedonia</i> <sup>4</sup> <i>Tarmac LLC Tetovo, North Macedonia</i> <sup>5</sup> <i>Ss. Cyril and Methodius University Skopje, North Macedonia</i>
ID230	<b>An Analysis of a Technological Process for Production of Optical Components</b> <b>Kliment Georgiev</b> <i>Technical University of Sofia, branch Plovdiv, Plovdiv, Bulgaria</i>

Wednesday, November 26, 2025

<b>Session:</b>	<b>Telecommunication Systems 1</b>	<b>Time:</b>	<b>17:30 - 19:00</b>
<b>Chair:</b>	<b>Stanimir SADINOV, Bulgaria</b>		
<b>Hall:</b>	<b>Online</b>	<b>Virtual room:</b>	<a href="#"><u>VR Hall 2</u></a>

No	Paper
ID226	<p><b>A High-Performance UWB Antenna for Military Communications and Radar Applications</b>                      Yazan Mohammad Hyasat <sup>1</sup>, and Yanal S. Faouri <sup>2</sup>  <sup>1</sup> <i>Jordanian Public Security Directorate Amman, Jordan</i>  <sup>2</sup> <i>University of Jordan Amman, Jordan</i></p>
ID227	<p><b>Reconfigurable Intelligent Surface (RIS) Design for 2.4 GHz Wi-Fi Band</b>                      Mohammad Ib. Al-Asaslih <sup>1</sup>, Yanal S. Faouri <sup>2</sup>, and Hamza A. AbuHamad <sup>2</sup>  <sup>1</sup> <i>Hashemite University Amman, Jordan</i>  <sup>2</sup> <i>The University of Jordan Amman, Jordan</i></p>
ID256	<p><b>Low Earth Orbit Satellite Network Routing</b>                      Ioannis Nakas, and Theodoros N.F. Kaifas  <i>Democritus University of Thrace, Xanthi, Greece</i></p>
ID268	<p><b>Electromagnetic Field Parameters in the Coverage Area of a Base Station</b>                      Miroslav Tomov <sup>1</sup>, Michail Malamatoudis <sup>2</sup>, Dimitrios Kazolis <sup>2</sup>, Konstantinos Tramantzas <sup>2</sup>, and Stanimir Sadinov <sup>1</sup>  <sup>1</sup> <i>Technical university of Gabrovo, Gabrovo, Bulgaria</i>  <sup>2</sup> <i>Democritus University of Thrace, Kavala, Greece</i></p>
ID274	<p><b>Near Field Focusing to Assist Emerging Networking, Tracking and Sensing Technologies</b>                      Nikolaos Karkanis, Andreas Giannakoulas, George Kyriacou, and Theodoros Kaifas  <i>Democritus University of Thrace, Xanthi, Greece</i></p>
ID210	<p><b>Balises for Precise Positioning in Automated Metro Transport</b>                      Svetoslav Tomov, and Emiliya Dimitrova  <i>Todor Kableshkov University of Transport, Sofia, Bulgaria</i></p>
ID284	<p><b>Polar-Coded Alamouti MIMO Transmission over Rayleigh Channels</b>                      Ana-Maria Grigoras (Oanca) <sup>1</sup>, Mihaela Andrei <sup>2</sup>, and Daniela Tarniceriu <sup>1</sup>  <sup>1</sup> <i>"Gheorghe Asachi" Technical University of Iasi, Iasi, Romania</i>  <sup>2</sup> <i>"Dunarea de Jos" University of Galati, Galati, Romania</i></p>
ID299	<p><b>Efficient Algorithms for Active Impulsive Noise Control</b>                      Felix Albu <sup>1</sup>, Daniela Hagiescu <sup>2</sup>, Ion Caciula <sup>1</sup>, and Henri George Coanda <sup>1</sup>  <sup>1</sup> <i>Valahia University of Targoviste, Targoviste, Romania</i>  <sup>2</sup> <i>Advanced Slisys SRL, Bucharest, Romania</i></p>
ID269	<p><b>Simulation of a Two-way long Line Channel in LTE Mobile Networks</b>                      Miroslav Tomov <sup>1</sup>, Michail Malamatoudis <sup>2</sup>, Dimitrios Kazolis <sup>2</sup>, Konstantinos Tramantzas <sup>2</sup>, and Stanimir Sadinov <sup>1</sup>  <sup>1</sup> <i>Technical university of Gabrovo, Gabrovo, Bulgaria</i>  <sup>2</sup> <i>Democritus University of Thrace, Kavala, Greece</i></p>

Thursday, November 27, 2025

<b>Session:</b>	<b>Telecommunication Systems 3</b>	<b>Time:</b>	<b>09:00 - 10:30</b>
<b>Chair:</b>	<b>Grigor MIHAYLOV, Bulgaria</b>		
<b>Hall:</b>	<b>Online</b>	<b>Virtual room:</b>	<a href="#">VR Hall 1</a>

<b>№</b>	<b>Paper</b>
ID317	<b>Circularly Polarized Slotted Ring Antenna for Modern Wireless Communications</b> Lujain F. Al-Hunay, Raneem A. Al-Mashni, and Yanal S. Faouri <i>University of Jordan Amman, Jordan</i>
ID36	<b>Exploring User Plane Function Implementations for Adaptive 6G Networks</b> Viktor Stoykov <i>Technical University of Sofia, Sofia, Bulgaria</i>
ID59	<b>AID-UPF: An AI-Enabled Distributed User Plane Framework for Emotion-Aware 6G Networks</b> Viktor Stoykov <i>Technical University of Sofia, Sofia, Bulgaria</i>
ID339	<b>Precision Localization of Autonomous Vehicles in Urban Environments: An Experimental Study with RFID Markers</b> Svetozar Stefanov, Miroslav Markov and Valentina Markova <i>Technical University of Varna, Varna, Bulgaria</i>
ID340	<b>Evaluating Global Navigation Satellite System (GNSS) Performance for Autonomous Vehicle Navigation in Urban Environments</b> Svetozar Stefanov, Miroslav Markov and Valentina Markova <i>Technical University of Varna, Varna, Bulgaria</i>
ID346	<b>Dynamic Ensemble Voting for Water Extraction: Optimizing Sentinel-2 Water Indices for Enhanced Accuracy and Optimal Processing Time</b> Nikolay Dimitrov and Valentina Markova <i>Technical University of Varna, Varna, Bulgaria</i>
ID272	<b>Development of on-Board Navigation Software with an Inter-active Interface for High-Precision Flight Trajectory Control</b> Yerkebulan Nurgizat <sup>1,2</sup> , Kuanysh Alipbayev <sup>1</sup> , Nursultan Zhetenbayev <sup>1,2</sup> , Abu-Alim Ayazbay <sup>1</sup> , Aidos Sultan <sup>1,2</sup> , Arman Uzbekbayev <sup>1</sup> and Gani Sergazin <sup>2</sup> <sup>1</sup> Almaty University of Power Engineering and Telecommunications named Gumarbek Daukeyev, Almaty, Kazakhstan <sup>2</sup> ALT University named after Mukhamedzhan Tynyshpaev, Almaty, Kazakhstan
ID259	<b>Graphene Based Dual Band MIMO Antenna for THz Applications</b> Rakesh N. Tiwari <sup>1</sup> , Prabhakar Singh <sup>2</sup> , and Pradeep Kumar <sup>3</sup> <sup>1</sup> Institute of Technology & Science, Madanapalle, India <sup>2</sup> Galgotias University, Greater Noida, India <sup>3</sup> University of KwaZulu-Natal, Durban, South Africa
ID93	<b>LiDAR-Based 3D Mapping Approach for Estimating Tree Carbon Stock: A University Campus Case Study</b> Abdul Samed Kaya, Aybuke Buksur, Yasemin Burcak, and Hidir Duzkaya <i>Gazi University, Ankara, Turkey</i>
ID141	<b>A Low-Cost and Reliable IoT-Based NFT Hydroponics System Using ESP32 and MING Stack</b> Tolga Demir, and İhsan Çiçek <i>Gebze Technical University, Kocaeli, Türkiye</i>

Thursday, November 27, 2025

<b>Session:</b>	<b>Electronics, Power Electronics and EMC 2</b>	<b>Time:</b>	<b>09:00 - 10:30</b>
<b>Chair:</b>	<b>Alina FAZYLOVA, Kazakhstan</b>		
<b>Hall:</b>	<b>Online</b>	<b>Virtual room:</b>	<a href="#"><u>VR Hall 2</u></a>

No	Paper
ID100	<b>Bidirectional Step-down/Step-up DC/DC Converter with Two Selectable Energy Sources –Computer Investigation</b> Hristo Antchev, and Dimitar Borisov <i>University of Chemical Technology and Metallurgy, Sofia, Bulgaria</i>
ID119	<b>Hardware Unit for Monitoring the Behaviour of a Bee Colony</b> Dimitar Avramov, and Ivaylo Penev <i>Technical University of Varna, Varna, Bulgaria</i>
ID211	<b>A Runtime Tunable Data Acquisition and Evaluation System for FPGA-based TRNGs</b> Yaşar Canbolat, and İhsan Çiçek <i>Gebze Technical University, Kocaeli, Türkiye</i>
ID248	<b>Induction Motor Investigation Models in the Matlab/Simulink Environment</b> Anka Krasteva, Donka Ivanova, and Vyara Ruseva <i>University of Ruse “Angel Kanchev”, Ruse, Bulgaria</i>
ID252	<b>Design of a Lossy FDNC-Based Chua's Diode Utilizing VDTA for Chaotic Oscillator</b> Pelın Doğan Sekreter, and Atilla Uygur <i>Gebze Technical University, Kocaeli, Türkiye</i>
ID315	<b>A New Approach to High-Performance Image Compression on FPGA</b> Xuan-Dung Nguyen <sup>1,2</sup> , Duc-Thanh Mai <sup>1,2</sup> , Duoc-Van Nguyen <sup>1,2</sup> , Quoc-Tuan Bui <sup>1,2</sup> , Hieu-Truong Ngo <sup>1,2</sup> <sup>1</sup> <i>University of Information Technology, Ho Chi Minh City, Vietnam</i> <sup>2</sup> <i>Vietnam National University, Ho Chi Minh City, Vietnam</i>
ID356	<b>FPGA-Based RISC-V SoC with Intra-frame H.264 Encoder</b> Minh-Phat Le Tang <sup>1,2</sup> , Anh-Khoi Nguyen <sup>1,2</sup> , Phuoc-Tai Dao <sup>1,2</sup> , Hoai-Nhan Nguyen <sup>1,2</sup> , Thanh-Khiet Cao <sup>1,2</sup> , Hieu-Truong Ngo <sup>1,2</sup> <sup>1</sup> <i>University of Information Technology, Ho Chi Minh City, Vietnam</i> <sup>2</sup> <i>Vietnam National University, Ho Chi Minh City, Vietnam</i>
ID184	<b>Study of the Effect of Higher-Order Harmonics on the Frequency Response Analysis of Series Resonant Converter</b> Dimitar Spirov, Angel Lichev, Vasil Mihov, Yassen Madankov, and Hristo Vargov <i>University of Food Technologies, Plovdiv, Bulgaria</i>
ID214	<b>A Low-Cost 3D Printed Piezoresistive Airflow Sensor for Biomedical and Industrial Applications</b> Utkucan Tek, Mehmet Akif Nişancı and İhsan Çiçek <i>Gebze Technical University, Kocaeli, Türkiye</i>
ID309	<b>Fast Loss Estimation Framework for Current-Source Microinverters Using Hybrid Simulation Models</b> Angel Marinov, and Kaloyan Solenkov <i>Technical University of Varna, Varna, Bulgaria</i>

Thursday, November 27, 2025

<b>Session:</b>	<b>Information Technologies and Artificial Intelligence 3</b>	<b>Time:</b>	<b>10:45 - 12:15</b>
<b>Chair:</b>	<b>Assel MUKASHEVA, Kazakhstan</b>		
<b>Hall:</b>	<b>Online</b>	<b>Virtual room:</b>	<a href="#">VR Hall 1</a>

<b>№</b>	<b>Paper</b>
ID72	<p><b>A Multidimensional Approach to Assessing the Progress of IT's Success in the Process of Digitalization</b>  <b>Daniela Borissova</b><sup>1</sup>, Zornitsa Dimitrova<sup>1</sup>, Radoslav Yoshinov<sup>1</sup>, Magdalena Garvanova<sup>2</sup> and Ivan Garvanov<sup>2</sup>  <sup>1</sup> <i>Bulgarian Academy of Sciences, Sofia, Bulgaria</i>  <sup>2</sup> <i>University of Library Studies and Information Technologies, Sofia, Bulgaria</i></p>
ID73	<p><b>Data Cleaning: Methods, Challenges, and Practices for Improving Data Quality</b>  Irena Valova, Tsvetelina Kaneva, Gabriel Kanev, and Tsvetana Halacheva  <i>University of Ruse "Angel Kanchev", Ruse, Bulgaria</i></p>
ID74	<p><b>Modeling Customer and Marketing Campaign Interactions through Social Network Analysis</b>  <b>Tsvetanka Georgieva-Trifonova</b>  <i>"St. Cyril and St. Methodius" University of Veliko Tarnovo, Veliko Tarnovo, Bulgaria</i></p>
ID82	<p><b>Frame-Channel Model for Microservice Architecture</b>  <b>Nikolai Scerbakov</b><sup>1</sup>, Vadim Pak<sup>2</sup>, and Vladimir Muliukha<sup>2</sup>  <sup>1</sup> <i>Graz University of Technology, Graz, Austria</i>  <sup>2</sup> <i>Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia</i></p>
ID83	<p><b>Log Files Analysis for Microservice Applications</b>  <b>Nikolai Scerbakov</b><sup>1</sup>, Vadim Pak<sup>2</sup>, and Vladimir Muliukha<sup>2</sup>  <sup>1</sup> <i>Graz University of Technology, Graz, Austria</i>  <sup>2</sup> <i>Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia</i></p>
ID303	<p><b>Vision Transformer for Multiclass Animal Image Recognition</b>  Assel Mukasheva<sup>1</sup>, Dina Koishiyeva<sup>1</sup>, Jeong Won Kang<sup>2</sup>, Alibek Bisembayev<sup>1</sup>, and Teodor Iliev<sup>3</sup>  <sup>1</sup> <i>Kazakh-British Technical University, Almaty, Kazakhstan</i>  <sup>2</sup> <i>Korea National University of Transportation, Uiwang-Si, Republic of Korea</i>  <sup>3</sup> <i>University of Ruse "Angel Kanchev", Ruse, Bulgaria</i></p>
ID120	<p><b>E-Learning Education Modules with Smart Content Delivery</b>  <b>Maria Roussi</b><sup>1</sup>, Aggeliki Solomanidou<sup>2</sup>, Dimitrios Marmanis<sup>1</sup>, Kalliopi Kravari<sup>3</sup>, Michail Chalaris<sup>1</sup>, Kalliopi Ladomenou<sup>1</sup>, and Anna Thysiadou<sup>1</sup>  <sup>1</sup> <i>Democritus University of Thrace, Kavala, Greece</i>; <sup>2</sup> <i>Aristotle University of Thessaloniki, Thessaloniki, Greece</i>;  <sup>3</sup> <i>Democritus University of Thrace, Drama, Greece</i></p>
ID121	<p><b>Enhance Student Engagement with the help of Multimedia and Cognitive Computing Tools</b>  <b>Kalliopi Kravari</b><sup>1</sup>, Athanasia Thomoglou<sup>2</sup>, Maria Roussi<sup>3</sup>, Michail Chalaris<sup>3</sup>, Kalliopi Ladomenou<sup>3</sup>, and Anna Thysiadou<sup>3</sup>  <sup>1</sup> <i>Democritus University of Thrace, Drama, Greece</i>; <sup>2</sup> <i>Democritus University of Thrace, Xanthi, Greece</i>  <sup>3</sup> <i>Democritus University of Thrace, Kavala, Greece</i></p>
ID160	<p><b>Decision Making System for Image Filtering Algorithms based on MCDM and Artificial Intelligent</b>  <b>Georgi Mihalev</b>, and Elena Monova  <i>Technical University of Gabrovo, Gabrovo, Bulgaria</i></p>
ID209	<p><b>Effect of Lighting Conditions on Classification of Rye-wheat Bread by Color</b>  <b>Hristina Andreeva</b>, Atanaska Bosakova-Ardenska, Radoslava Gabrova, Nadya Ruseva, and Tzvetana Gogova  <i>University of Food Technologies, Plovdiv, Bulgaria</i></p>

Thursday, November 27, 2025

<b>Session:</b>	<b>Energy and Renewable Sources 3</b>	<b>Time:</b>	<b>10:45 - 12:15</b>
<b>Chair:</b>	<b>Ventsislav KESEEV, Bulgaria</b>		
<b>Hall:</b>	<b>Online</b>	<b>Virtual room:</b>	<a href="#">VR Hall 2</a>

<b>No</b>	<b>Paper</b>
ID37	<p><b>Technical, Economic, and Environmental Efficiency of using Photovoltaic Solar Station in the Climatic Conditions of Turkmenistan</b>  <b>Aganiyaz Jumayev</b><sup>1</sup>, and Atageldi Kakabayev<sup>2</sup>  <sup>1</sup> State Energy Institute of Turkmenistan, Mary, Turkmenistan;  <sup>2</sup> Economic Secondary Vocational School, Mary, Turkmenistan</p>
ID78	<p><b>A Story of Wind Offshore Energy Transition: The case of Greece and Bulgaria</b>  <b>Athina Danai Vardaka</b>, and Jacob G. Fantidis  Democritus University of Thrace, Kavala, Greece</p>
ID96	<p><b>Investigation of the Impact of Photovoltaic Systems on Medium Voltage Grids</b>  <b>Dimitrios Kazolis</b>  Democritus University of Thrace, Kavala, Greece</p>
ID102	<p><b>Approach to Design and Techno-economic Analysis of the Feasibility for Battery Energy Storage System based on Real Consumer Data</b>  <b>Haris Čapelj</b>, Vahid Helać, and Selma Hanjalić  University of Sarajevo Sarajevo, Bosnia and Herzegovina</p>
ID109	<p><b>Technical and Economic Analysis of a Photovoltaic Power Plant for a Wastewater Treatment Plant using PVsyst</b>  <b>Cosmin Radu</b>, and Corina Boncescu  National University of Science and Technology Politehnica Bucharest, Bucharest, Romania</p>
ID157	<p><b>SRGAN-Based Deep Learning Framework for Wind Turbine Damage Detection from Sentinel-2 Imagery</b>  <b>Kübra Çakır</b><sup>1</sup>, Onur Elma<sup>1</sup>, and Murat Kuzlu<sup>2</sup>  <sup>1</sup> Çanakkale Onsekiz Mart University, Çanakkale, Türkiye  <sup>2</sup> Old Dominion University, Norfolk, VA, USA</p>
ID190	<p><b>Comparative Study Between Primary Electrical Energy Storage Devices</b>  <b>Sorin Sintea</b>, Bogdan Hnatiuc, Cornel Panait, Cătălin Pomazan, and Mihaela Hnatiuc  Constanta Maritime University, Constanta, Romania</p>
ID283	<p><b>Diffraction Analysis of Two Semi-Submersible Platforms for Floating Offshore Wind Turbine Applications Using OrcaWave</b>  Olena Videnova, and Nikita Dobin  IMSETHC BSHC, Bulgarian Academy of Science, Varna, Bulgaria</p>
ID297	<p><b>Method for Estimating the Uncertainty in Solar PV Rooftop Potential</b>  <b>Lucas Álvarez-Piñeiro</b>, David Blanco-Muelas, César Berna-Escriche, and Paula Bastida-Molina  Universitat Politècnica de València, València, Spain</p>
ID353	<p><b>Increasing Renewable Energy Penetration Using Energy Storage</b>  Alexandros Angeloudis, Angela Peraki, Yiannis Katsigiannis, and Emmanuel Karapidakis  Hellenic Mediterranean University, Heraklion, Greece</p>
ID151	<p><b>An Ensemble Forecasting Approach for Dynamic Allocation in Collective Self-Consumption Schemes</b>  Joan Tomàs Villalonga-Palou<sup>1</sup>, Javier Serano González<sup>1</sup>, Jesús Manuel Riquelme Santos<sup>1</sup>, and Antonio Maia de Jesus Chaves Neto<sup>2</sup>  <sup>1</sup> University of Seville, Seville, Spain  <sup>2</sup> Federal University of Pará, Belém do Pará, Brazil</p>

Thursday, November 27, 2025

<b>Session:</b>	<b>Information Technologies and Artificial Intelligence 4</b>	<b>Time:</b>	<b>12:30 - 14:00</b>
<b>Chair:</b>	<b>Darin PEEV, Bulgaria</b>		
<b>Hall:</b>	<b>Online</b>	<b>Virtual room:</b>	<b><a href="#">VR Hall 1</a></b>

<b>№</b>	<b>Paper</b>
ID114	<p><b>Recognition Methods for Complex Characters in Images from Manuscripts of the 17th-18th Centuries</b>  <b>Viktor Tailakov</b><sup>1</sup>, Tatyana Golubeva<sup>1</sup>, Dmitry Demidov<sup>2</sup>, Ivan Beloev<sup>3</sup>, Elena Tyshenko<sup>1</sup>, and Teodor Iliev<sup>3</sup>  <sup>1</sup> AUPET named after G.Daukeyev, Almaty, Kazakhstan  <sup>2</sup> National Research Nuclear University MEPhI, Moscow, Russia  <sup>3</sup> University of Ruse "Angel Kanchev", Ruse, Bulgaria</p>
ID135	<p><b>Hybrid Intelligence as a Tool for Managing Sustainable Innovations in Industrial and Energy Systems</b>  <b>Petya D. Georgieva</b><sup>1</sup>, Siyka Demirova<sup>2</sup>, and Kostadin Markov<sup>1</sup>  <sup>1</sup> University of Telecommunications and Post, Sofia, Bulgaria  <sup>2</sup> Technical University of Varna, Varna, Bulgaria</p>
ID137	<p><b>Evaluating the Role of Temporal Features in Enhancing Fake Instagram Account Detection with Ensemble Learning Models</b>  <b>Samar Sadeq Hassoun</b>, and Nahla Abbas Flayh  <i>College of Computer Science and Information Technology, Basrah, Iraq</i></p>
ID167	<p><b>Automation System for Managing Innovation Obsolescence for SME</b>  <b>Petya D. Georgieva</b>, Kostadin Markov, and Iliyan Vasilev  <i>University of Telecommunications and Post, Sofia, Bulgaria</i></p>
ID172	<p><b>A Conceptual Framework for Integrating IoT, Artificial Intelligence and Blockchain in Smart Agriculture</b>  <b>Avni Rustemi</b>, Florim Idrizi, Hirijete Idrizi, and Ejup Rustemi  <i>University of Tetovo, Tetovo, N. Macedonia</i></p>
ID177	<p><b>MLCAE: A Multi-Layered Configuration for Architectural Elements in Large-Scale Software Applications</b>  <b>Hristo Hristov</b>  <i>Technical University of Varna, Varna, Bulgaria</i></p>
ID178	<p><b>USSF: A Unified Framework for Screen Standardization in Software Systems</b>  <b>Hristo Hristov</b>  <i>Technical University of Varna, Varna, Bulgaria</i></p>
ID204	<p><b>Hybrid Heuristic Method for Optimal Transmission Switching with Greedy Pre-Filtering</b>  <b>Viktor Tailakov</b><sup>1</sup>, Tatyana Golubeva<sup>1</sup>, Yaroslav Napadailo<sup>2</sup>, Ivan Beloev<sup>3</sup>, and Teodor Iliev<sup>3</sup>  <sup>1</sup> AUPET named after G.Daukeyev, Almaty, Kazakhstan  <sup>2</sup> National Research Nuclear University MEPhI, Moscow, Russia  <sup>3</sup> University of Ruse "Angel Kanchev", Ruse, Bulgaria</p>
ID138	<p><b>Simple Experimental Evaluation of a Quantum Computer via Tomography and GHZ States</b>  <b>Darin Peev</b>  <i>Nikola Vaptsarov Naval Academy, Varna, Bulgaria</i></p>
ID332	<p><b>Simple Quantum Probability Amplitude Modulation Test on an IBM Quantum Computer</b>  <b>Darin Peev</b>  <i>Nikola Vaptsarov Naval Academy, Varna, Bulgaria</i></p>

Thursday, November 27, 2025

<b>Session:</b>	<b>Biomedical Engineering 2</b>	<b>Time:</b>	<b>12:30 - 14:00</b>
<b>Chair:</b>	<b>Nursultan ZHETENBAYEV, Kazakhstan</b>		
<b>Hall:</b>	<b>Online</b>	<b>Virtual room:</b>	<a href="#">VR Hall 2</a>

No	Paper
ID142	<p><b>Machine Learning for Classifying Vascular Age Using the Second Derivative of the PPG Signal</b>  <b>Corin Otesteanu</b><sup>1</sup>, Gianluca Diana<sup>2</sup>, Francesco Scardulla<sup>2</sup>, Silvia Puleo<sup>2</sup>, Salvatore Pasta<sup>2</sup>, Leonardo D'acquisto<sup>2</sup> and Carlo Menon<sup>1</sup>  <sup>1</sup>ETH Zürich Zürich, Switzerland; <sup>2</sup>University of Palermo Palermo, Italy</p>
ID143	<p><b>Generative AI for Glucose Level Prediction Using Wearable Devices</b>  <b>Zdenek Snajdr</b>, Martin Brun, Corin Otesteanu, and Carlo Menon            ETH Zürich Zürich, Switzerland</p>
ID146	<p><b>Electric Potential Calculation in Muscle Tissue: a Method of Moments Approach</b>  <b>Andrijana Kuhar</b>, Blagoja Markovski, Bojan Glushica, and Vesna Arnautovski-Toseva            Ss. Cyril and Methodius University in Skopje, Skopje, North Macedonia</p>
ID205	<p><b>Computation of Conduction and Displacement Current Densities in Modelled Human Organs Near an Overhead Transmission Line</b>            Cvetanka Bilbiloska, Elena Todorova, <b>Bojan Glushica</b>, and Andrijana Kuhar            Ss. Cyril and Methodius University in Skopje, Skopje, North Macedonia</p>
ID250	<p><b>Compressed Sensing of ECG Signal Implemented on FPGA Processor</b>  <b>Miroslav Jusko</b>, Peter Lukacs, Ondrej Kovac, and Jan Saliga            Technical University of Kosice, Kosice, Slovakia</p>
ID318	<p><b>Pseudo-temporal Modeling with 2D CNNs for Framewise Surgical Gesture Segmentation in Robot-Assisted Surgery</b>            Daniel Haro-Mendoza<sup>1</sup>, Gustavo Alejandro Castro Vazquez<sup>1</sup>, Angel Leonardo Campos Carreras<sup>1</sup>, Anwar Jair Diaz Urias<sup>1</sup>, Victor J. Gonzalez-Villela<sup>1</sup>, Manuel Cedillo-Hernandez<sup>2</sup> and <b>Rodrigo Eduardo Arevalo-Ancona</b><sup>2</sup>  <sup>1</sup>Universidad Nacional Autónoma de México Mexico City, Mexico; <sup>2</sup>Instituto Politécnico Nacional Mexico City, Mexico</p>
ID139	<p><b>AI-Based Digitization of Product Inspection Forms with LLMs and Document Intelligence</b>  <b>Efe Yılmaz Taşyürek</b><sup>1</sup>, Sevinç İlhan Omurca<sup>2</sup>, Türkan Pelin Damar<sup>1</sup>, Lütfü Çakıl<sup>1</sup>, Erol Gerçeker<sup>1</sup>, Çağdaş Yılmaz<sup>1</sup>, Helin İnce Özgür<sup>1</sup> and Furkan İsmet Tufan<sup>1</sup>  <sup>1</sup>GoLive Software Consultant Inc., Istanbul, Turkey; <sup>2</sup>Kocaeli University, Kocaeli, Turkey</p>
ID221	<p><b>A Review of Clinical and Instrumented Data Collection in Children with Cerebral Palsy and its Application in Adaptive Rehabilitation Controller Design</b>  <b>Nursultan Zhetenbayev</b><sup>1</sup>, Gani Sergazin<sup>2</sup>, Aidos Sultan<sup>1</sup>, Kassymbek Ozhikenov<sup>1</sup>, Yerkebulan Nurgizat<sup>1</sup> and Nurtilek Sagynbayev<sup>1</sup>  <sup>1</sup>Satbayev University, Almaty, Kazakhstan  <sup>2</sup>ALT University named after Mukhamedzhan Tynyshpaev, Almaty, Kazakhstan</p>
ID223	<p><b>Application of FDM Printing with PEEK for the Development of a Robotic Rehabilitation Device for Children with Musculoskeletal Disorders</b>            Nurtilek Sagynbayev<sup>1</sup>, <b>Nursultan Zhetenbayev</b><sup>1</sup>, Gani Sergazin<sup>2</sup> and Kassymbek Ozhikenov<sup>1</sup>  <sup>1</sup>Satbayev University, Almaty, Kazakhstan  <sup>2</sup>ALT University named after Mukhamedzhan Tynyshpaev, Almaty, Kazakhstan</p>
ID247	<p><b>Development and Modeling of a Modular Ankle Prosthesis</b>  <b>Yerkebulan Nurgizat</b><sup>1</sup>, Abu-Alim Ayazbay<sup>1</sup>, Arman Uzbekbayev<sup>1</sup>, Nursultan Zhetenbayev<sup>1</sup>, Kassymbek Ozhikenov<sup>1</sup> and Gani Sergazin<sup>2</sup>  <sup>1</sup>Satbayev University, Almaty, Kazakhstan; <sup>2</sup>ALT University, Almaty, Kazakhstan</p>

Thursday, November 27, 2025

<b>Session:</b>	<b>Information Technologies and Artificial Intelligence 5</b>	<b>Time:</b>	<b>14:15 - 15:45</b>
<b>Chair:</b>	<b>Ivan RALEV, Bulgaria</b>		
<b>Hall:</b>	<b>Online</b>	<b>Virtual room:</b>	<b><a href="#">VR Hall 1</a></b>

<b>№</b>	<b>Paper</b>
ID81	<b>The Prompt–Refactor–Verify (PRV) Cycle: A Human-Centered Framework for AI-Assisted Programming</b> Nikolay Yanev, Iglia Getova, <b>Elizabet Mihaylova</b> , Iva Kostadinova, Milena Bankovska, and Georgi Dimitrov <i>University of Library Study and Information Technologies, Sofia, Bulgaria</i>
ID217	<b>Architecture of Cyber-physical System for Improving Safety in Public Life “Safety”</b> <b>Nikolay Gospodinov</b> and Georgi Krastev <i>University of Ruse “Angel Kanchev”, Ruse, Bulgaria</i>
ID241	<b>Multi-class Classification for Natural Language Processing</b> <b>Ginka Marinova</b> <i>Technical University of Varna, Varna, Bulgaria</i>
ID251	<b>Student and Employer Perspectives on IT Leadership in the Context of AI and IoT</b> <b>Nikolay Yanev</b> , Iva Kostadinova, Iglia Getova, Yoana Hadzhiyska, Elizabet Mihaylova, and Milena Bankovska <i>Library Studies and Information Technologies University, Sofia, Bulgaria</i>
ID258	<b>Multiprocessor Based Architecture for Optimum Control of Reconfigurable and Multifunctional Next Generation Antenna Systems</b> <b>Ioannis Gavriilidis</b> , <b>Dimitrios Karamanlis</b> , and Theodoros Kaifas <i>Democritus University of Thrace, Xanthi, Greece</i>
ID262	<b>Predictive Load Balancing in Distributed Systems: A Comparative Study of Round Robin, Weighted Round Robin, and a Machine Learning Approach</b> Elshan Rahimov, and <b>Tamerlan Aghayev</b> <i>Baku Higher Oil School, Baku, Azerbaijan</i>
ID273	<b>Pathologic Voice Recordings Databases: Generalizability and Data Availability</b> <b>Monika Danilovaitė</b> , and Gintautas Tamulevičius <i>Vilnius University, Vilnius, Lithuania</i>
ID351	<b>Curvature Classification of Departure Flight Trajectory Segments</b> <b>Lucija Žužić</b> <sup>1</sup> , Ivan Štajduhar <sup>1</sup> , Jonatan Lerga <sup>1</sup> , and Renato Filjar <sup>1,2</sup> <sup>1</sup> <i>University of Rijeka, Rijeka, Croatia</i> <sup>2</sup> <i>Hrvatsko Zagorje Krapina University of Applied Sciences, Krapina, Croatia</i>
ID212	<b>A Compact USB-Based Interface Module for the Verification of ARINC429 Avionics Systems</b> <b>Fatih Çiçek</b> <sup>1</sup> , and İhsan Çiçek <sup>2</sup> <sup>1</sup> <i>ASELSAN Inc., Ankara, Türkiye</i> <sup>2</sup> <i>Gebze Technical University, Kocaeli, Türkiye</i>
ID92	<b>Using Electroencephalographic Data in Intelligent Human-computer Interaction</b> <b>Ivan Ralev</b> , and Georgi Krastev <i>University of Ruse “Angel Kanchev”, Ruse, Bulgaria</i>

Thursday, November 27, 2025

<b>Session:</b>	<b>Power System &amp; Smart Cities 2</b>	<b>Time:</b>	<b>14:15 - 15:45</b>
<b>Chair:</b>	Stanislav PENCHEV, Bulgaria		
<b>Hall:</b>	Online	<b>Virtual room:</b>	<a href="#">VR Hall 2</a>

No	Paper
ID111	<p><b>Condition Monitoring and Fault Diagnosis of Synchronous Machines: Short Review</b>  <b>Abdellah Belhaouzi</b><sup>1</sup>, Mohammed Ouassaid<sup>1</sup>, and Hamza Sabir<sup>2</sup>  <sup>1</sup> Mohammed V University in Rabat, Rabat, Morocco  <sup>2</sup> Hassan II University, Casablanca, Morocco</p>
ID158	<p><b>Evaluating the Impact of Electric Vehicle Integration on University Campus Energy Demand</b>  <b>Onur Elma</b><sup>1,2</sup>, and Murat Kuzlu<sup>1</sup>  <sup>1</sup> Old Dominion University, Norfolk, VA, USA  <sup>2</sup> Canakkale Onsekiz Mart University, Çanakkale, Türkiye</p>
ID243	<p><b>Multilevel Image Thresholding of Transmission Line Insulators: Entropy-Based Performance Evaluation of PSO, NRBO, and WO Algorithms</b>  <b>Nermin Komar</b>, Mirza Batalovic, Medina Kapo, Amila Akagic, and Emir Buza  University of Sarajevo, Sarajevo, Bosnia and Herzegovina</p>
ID290	<p><b>Pedestrian Wind Environment in Urban Fabrics: Field Measurements, CFD Modeling, and Mitigation Measures</b>  <b>Nikita Dobin</b>  Technical University of Varna, Varna, Bulgaria  IMSETCHA, Bulgarian Academy of Sciences, Varna, Bulgaria</p>
ID306	<p><b>Probabilistic Cyber Threat Modelling for Remote Commands of System Integrity Protection Scheme</b>  <b>Monazzah Ebrahimi Gardeshi</b>  University of Leeds, Leeds, UK</p>
ID344	<p><b>Considering Metal Structures when Modeling Electromagnetic Fields of a 25 kV Traction Network</b>  Andrey Kryukov<sup>1</sup>, <b>Konstantin Suslov</b><sup>2</sup>, Ekaterina Voronina<sup>1</sup>, Iliya Iliev<sup>3</sup>, Hristo Beloev<sup>3</sup>, and Ivan Beloev<sup>3</sup>  <sup>1</sup> Irkutsk State Transport University, Irkutsk, Russia  <sup>2</sup> National Research University, "Moscow Power Engineering Institute", Moscow, Russia  <sup>3</sup> University of Ruse "Angel Kanchev", Ruse, Bulgaria</p>
ID222	<p><b>Design of an Ankle Joint Exoskeleton: Importance of Anatomical and Biomechanical Analysis (Experience from AlmatyAnkleExo V1/V2)</b>  Dinara Seisenova<sup>1</sup>, <b>Nursultan Zhetenbayev</b><sup>2</sup>, Gani Sergazin<sup>3</sup>, and Kassymbek Ozhikenov<sup>2</sup>  <sup>1</sup> Almaty University of Power Engineering and Telecommunications, Almaty, Kazakhstan  <sup>2</sup> Satbayev University, Almaty, Kazakhstan  <sup>3</sup> ALT University named after Mukhamedzhan Tynyshpaev, Almaty, Kazakhstan</p>

Thursday, November 27, 2025

<b>Session:</b>	<b>Information Technologies and Artificial Intelligence 6</b>	<b>Time:</b>	<b>16:00 - 17:30</b>
<b>Chair:</b>	<b>Erman Kadir OZTEKIN, Türkiye</b>		
<b>Hall:</b>	<b>Online</b>	<b>Virtual room:</b>	<a href="#"><u>VR Hall 1</u></a>

<b>№</b>	<b>Paper</b>
ID147	<p><b>Machine Learning Approaches for Predicting Students' Intentions to Pursue Higher Education: Insights from Multidimensional Survey Data</b>                      Dimitrichka Nikolaeva, Diyan Dinev, <b>Daniela Petrova</b>, Maya Todorova, Ivo Rakitin, and Evgenia Rakitina  <i>Technical University of Varna, Varna, Bulgaria</i></p>
ID153	<p><b>Automated Detection of Inattentive and Extreme Response Styles in Survey Data</b>  <b>Donika Stoyanova</b>, Hristo Nenov, Stefka Popova, Evgeniya Rakitina, Dimitrichka Nikolaeva, and Ivo Rakitin  <i>Technical University of Varna, Varna, Bulgaria</i></p>
ID164	<p><b>Towards a Privacy Preserving Framework for Mobility as a Service (MaaS)</b>                      Ebuka Chinaechem Nkoro, A. Omar Portillo-Dominguez, Christina Thorpe, and <b>Vanessa Ayala-Rivera</b>  <i>Technological University Dublin, Dublin, Ireland</i></p>
ID193	<p><b>Centralised Orchestration and Strategic Alignment in AI-Agent-Enabled Supply Chains</b>  <b>Petya Popova</b>, Veselin Popov, and Mariana Petrova  <i>Tsenov Academy of Economics, Svishtov, Bulgaria</i></p>
ID200	<p><b>Benchmarking Machine Learning Techniques in Under-Resourced Contexts: Analysis of Public Perceptions of Government Policies from South Karnataka Reddit Discourse</b>  <b>Varnica Sharma</b>, Aman Tripathi, and K.M. Kavitha  <i>Manipal Academy of Higher Education, Manipal, Karnataka, India</i></p>
ID203	<p><b>Experimental Investigation of Computer Vision Architectures for Object Detection in Mobile Robotics</b>  <b>Perizat Rakhmetova</b>, Aldabergen Bektilevov, Lazzat Kurmangalieva, Baglan Bekbossynova and Beibit Shingissov  <i>Satbayev University, Almaty, Kazakhstan</i></p>
ID237	<p><b>Modification of WSM and WPM for Group Decision-Making Considering DMs' Different Competence Domains</b>  <b>Zornitsa Dimitrova</b>, Vasil Dimitrov and Daniela Borissova  <i>Institute of Information and Communication Technologies, Bulgarian Academy of Sciences, Sofia, Bulgaria</i></p>
ID281	<p><b>A Conceptual Framework for Cyberattack Analysis in Hospital Networks: Integrating Internet of Medical Things and Regulatory Perspective</b>  <b>Antonina Ivanova</b><sup>1</sup>, Teodora Bakardjieva<sup>1</sup>, Zornitsa Nikitina<sup>2</sup>, Andriana Ivanova<sup>1</sup>, Fatima Sapundzhi<sup>3</sup>, and Slavi Georgiev<sup>4,5</sup>  <sup>1</sup> Varna Free University, Varna, Bulgaria; <sup>2</sup> Medical University, Varna, Bulgaria  <sup>3</sup> South-West University Neofit Rilski, Blagoevgrad, Bulgaria  <sup>4</sup> University of Ruse "Angel Kanchev", Ruse, Bulgaria; <sup>5</sup> Bulgarian Academy of Sciences, Sofia, Bulgaria</p>
ID348	<p><b>Deep Learning-Based Eavesdropping Attack Detection for UAV Networks</b>  <b>Rashed M. H. Almarri</b><sup>1</sup>, Plamen Zahariev<sup>2</sup>, Ahmed F. N. Obeidat<sup>1</sup>, and Yahya M. Tashtoush<sup>1</sup>  <sup>1</sup> Jordan University of Science and Technology, Irbid, Jordan  <sup>2</sup> University of Ruse "Angel Kanchev", Ruse, Bulgaria</p>
ID355	<p><b>AI-Assisted Coding: Evaluating the Effectiveness of ML Model Development Using ChatGPT</b>  <b>Blessing Ogbene Okpe</b><sup>1</sup>, and Svetlana Stefanova<sup>2</sup>  <sup>1</sup> University of Naples "Parthenope", Napoli, Italy  <sup>2</sup> University of Ruse "Angel Kanchev", Ruse, Bulgaria</p>

Thursday, November 27, 2025

<b>Session:</b>	<b>Smart Telecommunications, Industry and Services 3</b>	<b>Time:</b>	<b>16:00 - 17:30</b>
<b>Chair:</b>	<b>Ivaylo Ts. STOYANOV, Bulgaria</b>		
<b>Hall:</b>	<b>Online</b>	<b>Virtual room:</b>	<a href="#"><u>VR Hall 2</u></a>

<b>No</b>	<b>Paper</b>
ID45	<p><b>A Data-Driven Analysis of Factors Affecting Consumer Purchase Decisions in E-Commerce Platforms</b>                      Petranka Midova, <b>Ivan Marinov</b>, and Tsvetelina Kabakchieva  <i>Dimitar Tsenov Academy of Economics, Svishtov, Bulgaria</i></p>
ID75	<p><b>The Application of Big Data Analytics in the Retail Sector: A Comparative Study of European Union Member States</b>                      Simeonka Petrova, Zoya Ivanova, and Elena Valcheva  <i>Tsenov Academy of Economics, Svishtov, Bulgaria</i></p>
ID132	<p><b>Challenges and Opportunities for Digital Transformation of Organizational Culture in Bulgarian Companies for Telecommunications Services</b>                      Gergana Sl. Dimcheva, and <b>Ivaylo Ts. Stoyanov</b>  <i>University of Telecommunications and Post, Sofia, Bulgaria</i></p>
ID195	<p><b>Increasing the Digital Capacity of Organizations by Using Digital Wallets in the European Blockchain Services Infrastructure</b>                      Rusen Gigov, and Ivan Dimitrov  <i>Burgas State University "Prof. Dr Asen Zlatarov", Burgas, Bulgaria</i></p>
ID196	<p><b>The Impact of Artificial Intelligence on Risk Management and Organizational Communication: A Study of Bulgarian Small and Medium-Sized Enterprises</b>                      Nadezhda Koprinkova-Noncheva, Adile Dimitrova, and <b>Ivan Dimitrov</b>  <i>Burgas State University "Prof. Dr Asen Zlatarov", Burgas, Bulgaria</i></p>
ID357	<p><b>Integration of Artificial Intelligence in the Student Training of Engineering Programmes</b>                      Marlena Daneva, Vanyo Donev, and Monika Simeonova-Ingilizova  <i>Engineering and Pedagogy –Sliven, Technical University of Sofia, Sliven, Bulgaria</i></p>
ID79	<p><b>Integrated System for Automated Reporting and Control through ERP and MES in an Industrial Environment</b>                      Kiril Ivanov, Aneliya Manukova, and Snezhinka Zaharieva  <i>University of Ruse "Angel Kanchev", Ruse, Bulgaria</i></p>
ID63	<p><b>The Role of Artificial Intelligence in Delivering Electronic Administrative Services</b>                      Tsvetanka Dutsova  <i>University of Ruse "Angel Kanchev", Ruse, Bulgaria</i></p>
ID133	<p><b>Benchmarking and Evaluation Framework for Large Language Models in Education</b>                      Kalina Nikiforova-Ilieva, and Tsvetozar Georgiev  <i>University of Ruse "Angel Kanchev", Ruse, Bulgaria</i></p>
ID162	<p><b>Real-Time Object Recognition and Adaptive Positioning for Delta Manipulators using Deep Learning Techniques</b>                      Arman Uzbekbayev <sup>1</sup>, Abu-Alim Ayazbay <sup>1</sup>, <b>Gulzhamal Tursunbayeva</b> <sup>2</sup>, Nawras Al Bukhari <sup>3</sup> and Aitolkyn Rysbek <sup>4</sup>  <sup>1</sup> <i>Almaty University of Power Engineering and Telecommunications, Almaty, Kazakhstan</i>  <sup>2</sup> <i>Eurasian National University. Almaty, Kazakhstan</i>  <sup>3</sup> <i>Almaty Technological University</i>  <sup>4</sup> <i>Mukhamedzhan Tynyshpayev ALT University, Almaty, Kazakhstan</i></p>

Thursday, November 27, 2025

<b>Session:</b>	<b>Information Technologies and Artificial Intelligence 7</b>	<b>Time:</b>	<b>17:45 - 19:15</b>
<b>Chair:</b>	<b>Alptekin ENGIN, Türkiye</b>		
<b>Hall:</b>	<b>Online</b>	<b>Virtual room:</b>	<a href="#">VR Hall 1</a>

<b>No</b>	<b>Paper</b>
ID206	<b>Multigrain Sentiment Analysis on User Reviews in Bulgarian – Comparison Between Stemmed and Non-stemmed Data</b> Daniela Petrova, Diyan Dinev and Dimitrichka Nikolaeva <i>Technical University of Varna, Varna, Bulgaria</i>
ID207	<b>Method for Generating a Symmetric Key for Image Encryption Using AES, Camellia and Blowfish</b> Gergana Spasova, and Diyan Dinev <i>Technical University of Varna, Varna, Bulgaria</i>
ID208	<b>Benchmarking and Teaching Symmetric Cryptography: A Comparative Study of Algorithms and Cryptanalysis Methods with an Educational Simulator</b> Diyan Dinev and Gergana Spasova <i>Technical University of Varna, Varna, Bulgaria</i>
ID215	<b>Inpainting Detection via Image Segmentation with a Modified U-Net Architecture</b> Rodrigo Eduardo Arevalo-Ancona and Manuel Cedillo-Hernandez <i>Instituto Politecnico Nacional, Mexico City, Mexico</i>
ID231	<b>Blockchain-based Model for Monitoring Employees' Vital Signs</b> Venelin Maleshkov, Veneta Aleksieva and Hristo Valchanov <i>Technical University of Varna, Varna, Bulgaria</i>
ID240	<b>Evaluation of Low-Cost Water Quality Monitoring Sensors for IoT</b> Asad Saeed Khan <sup>1</sup> , Rajan Paudyal <sup>1</sup> , Wolfgang Dörner <sup>1</sup> , and Thomas Baumann <sup>2</sup> <sup>1</sup> <i>Deggendorf Institute of Technology, Freyung, Germany</i> <sup>2</sup> <i>Technische Universität München, Munich, Germany</i>
ID279	<b>Quick Sort for Real-Time Cybersecurity Analytics: Efficiency Gains, Implementation Risks, and Optimization Framework</b> Svetlana Syarova, Stefka Toleva-Stoimenova, Yoana Hadzhiyska, Tamara Ristovska, and Nikolay Yanev <i>University of Library Studies and Information Technologies, Sofia, Bulgaria</i>
ID282	<b>Benchmarking Web Security for Countries in the Black Sea Region</b> Ana Țurcan, and Dumitru Ciorbă <i>Technical University of Moldova, Chisinau, Moldova</i>
ID183	<b>From “Here” to Nearby: A Python-Spring Boot Pipeline for Smartphone Geolocation, Reverse Geocoding, and Real-Time Place Discovery in Web GIS</b> Medjon Hysenaj <i>University of Shkodra “Luigj Gurakuqi”, Shkodër, Albania</i>
ID156	<b>Continuous Battery Efficiency Estimation Algorithms for Home Energy Management Systems: A Simulation and Laboratory Validation Study</b> Julien Essers, Jona Grundkötter, Kevin Preißner, Eike Niehs, and Bernd Engel <i>Technical University, Braunschweig, Germany</i>

Thursday, November 27, 2025

<b>Session:</b>	<b>Smart Telecommunications, Industry and Services 4</b>	<b>Time:</b>	<b>17:45 - 19:15</b>
<b>Chair:</b>	<b>Jacob FANTIIS, Greece</b>		
<b>Hall:</b>	<b>Online</b>	<b>Virtual room:</b>	<a href="#"><u>VR Hall 2</u></a>

No	Paper
ID293	<b>Machine Learning Methods for SQL Objects in Oracle Database</b> Amira Kunalic, <b>Medina Kapo</b> , Mirza Batalovic, and Emir Buza <i>University of Sarajevo, Sarajevo, Bosnia and Herzegovina</i>
ID296	<b>A Paradigm for the Application of Generative Machines in the Educational Domain in the Context of Bloom's Revised Taxonomy</b> Valentin Atanasov <sup>1</sup> , and <b>Aneliya Ivanova</b> <sup>2</sup> <sup>1</sup> <i>Shumen University "Konstantin Preslavski", Shumen, Bulgaria</i> <sup>2</sup> <i>University of Ruse "Angel Kanchev", Ruse, Bulgaria</i>
ID311	<b>Energy-Efficient Uplink Resource Allocation via Deep Reinforcement Learning in OFDMA Networks</b> Arjola Biti, Olimpion Shurdi, and Luan Ruci <i>Polytechnic University of Tirana, Tirana, Albania</i>
ID326	<b>Augmented Reality in Improving User Experience in E-Commerce Platforms: A Systematic Literature Review</b> Giovanni Ronald Manchego Auris, Pedro Alonso Vasconcelos Romero, <b>Carmen Luz Cuba Cornejo</b> , and Cesar Augusto Cabrera Garcia <i>Universidad Tecnológica del Perú, Ica, Perú</i>
ID327	<b>Integration of Digital Twin and AI-enabled ERP Systems: A Conceptual Framework for Intelligent Electronics Manufacturing Services</b> <b>Subhajit Paul</b> <i>Odessa, Florida, USA</i>
ID129	<b>Digitalization of logistics processes through AI: Economic effects and levels of implementation in Bulgaria and the EU</b> <b>Siyka Demirova</b> , Svetlana Dimitrakieva and Nikolay Sharialiev <i>Technical University of Varna, Varna, Bulgaria</i>
ID341	<b>Performance Comparison of Face Detection Algorithms for Accurate Face Counting</b> Damiana Teliti <sup>1</sup> , <b>Olsi Shehu</b> <sup>1</sup> , Dželila Mehanović <sup>1</sup> , Jasmin Kevrić <sup>1</sup> and Bekir Karlik <sup>2</sup> <sup>1</sup> <i>International Burch University, Sarajevo, Bosnia &amp; Herzegovina</i> <sup>2</sup> <i>Istanbul Esenyurt University, Istanbul, Turkey</i>
ID342	<b>Benchmarking Wav2Vec and Traditional Speech Recognition in Speech</b> <b>Olsi Shehu</b> <sup>1</sup> , Damiana Teliti <sup>1</sup> , Jasmin Kevrić <sup>1</sup> , Samed Jukić <sup>1</sup> , and Bekir Karlik <sup>2</sup> <sup>1</sup> <i>International Burch University, Sarajevo, Bosnia &amp; Herzegovina</i> <sup>2</sup> <i>Istanbul Esenyurt University, Istanbul, Turkey</i>
ID349	<b>AI-Based Lung Disease Classification</b> <b>Yahya M. Tashtoush</b> <sup>1</sup> , Reem Banihani <sup>1</sup> , Amani Krieshan <sup>1</sup> , and Plamen Zahariev <sup>2</sup> <sup>1</sup> <i>Jordan University of Science and Technology, Irbid, Jordan</i> <sup>2</sup> <i>University of Ruse "Angel Kanchev", Ruse, Bulgaria</i>
ID277	<b>A Survey on Methods to Detect Pilot Contamination Attack against Physical Layer Authentication</b> <b>Dimitriya Mihaylova</b> <sup>1</sup> , and Stefano Tomasin <sup>2</sup> <sup>1</sup> <i>Technical University of Sofia, Sofia, Bulgaria</i> <sup>2</sup> <i>University of Padova, Padova, Italy</i>

Friday, November 28, 2025

<b>Session:</b>	<b>Mechatronics and Industrial Automation 1</b>	<b>Time:</b>	<b>09:00 - 10:45</b>
<b>Chair:</b>	<b>Vladislav IVANOV, Bulgaria</b>		
<b>Hall:</b>	<b>Online</b>	<b>Virtual room:</b>	<a href="#"><u>VR Hall 1</u></a>

<b>№</b>	<b>Paper</b>
ID118	<p><b>Evaluation of Hybrid and Electric Vehicles Training Needs for Developing VR/AR Supported Digital Training Materials</b>                      Ridvan Arslan <sup>1</sup>, Abdil Kus <sup>1</sup>, Dorian Gorgan <sup>2</sup>, <b>Vladislav Ivanov</b> <sup>3</sup>, and Lubomir Dimitrov <sup>3</sup>  <sup>1</sup> <i>Bursa Uludağ University, Bursa, Turkey</i>  <sup>2</sup> <i>Technical University of Cluj-Napoca, Cluj-Napoca, Romania</i>  <sup>3</sup> <i>Technical University of Sofia, Sofia, Bulgaria</i></p>
ID148	<p><b>Color Ergonomic Strategies for Age-Responsive Design</b>  <b>Velislava Cherkezova</b>, and Iliya Iliev  <i>Technical University of Varna, Varna, Bulgaria</i></p>
ID246	<p><b>Methods for Vibration Data Processing in Industrial Circuit Breaker Systems</b>  <b>Spânu Bogdan Adrian</b> <sup>1</sup>, Hnatiuc Mihaela <sup>2</sup>, Bogdan Hnatiuc <sup>2</sup>  <sup>1</sup> <i>“Dunarea de Jos” University, Galați, Romania</i>  <sup>2</sup> <i>Constanța Maritime University, Constanța, Romania</i></p>
ID263	<p><b>Practical Approach for Effective Project Management and Organization in Machine-building and Feeding System Projects</b>  <b>Penko Mitev</b>, Yordan Stoyanov, and Atanasi Tashev  <i>Technical University of Sofia, Branch Plovdiv, Plovdiv, Bulgaria</i></p>
ID264	<p><b>Development of a Feeding System for Part Vetka</b>  <b>Penko Mitev</b>  <i>Technical University of Sofia, Branch Plovdiv, Plovdiv, Bulgaria</i></p>
ID265	<p><b>Optimization of Mechanical and Electrical Parameters of Feeding Devices Based on Productivity Requirements and Part Geometry</b>  <b>Penko Mitev</b>  <i>Technical University of Sofia, Branch Plovdiv, Plovdiv, Bulgaria</i></p>
ID304	<p><b>Digital Twin Applications in Industrial Engineering: From Process Optimization to Autonomous Systems</b>  <b>Tsanka Zlateva-Petkova</b>  <i>Technical university of Gabrovo, Gabrovo, Bulgaria</i></p>
ID308	<p><b>From 3D Printing to Automation: Arduino-Controlled Educational Manipulator with Sensor Modules Integration</b>  <b>Nikolay Komitov</b>, Evelin Shopov, Mariyana Sestrimska, Margarita Terziyska and Veselin Nachev  <i>University of Food Technologies, Plovdiv, Bulgaria</i></p>
ID352	<p><b>Research on the Influence of Air Temperature and Physiological Work Mode on the Efficiency of Occupational Safety in the Sewing Industry</b>  <b>Vasil Chobanov</b>  <i>South-West University “Neofit Rilsky”, Blagoevgrad, Bulgaria</i></p>

Friday, November 28, 2025

<b>Session:</b>	<b>Energy Efficiency and Applied Thermodynamics 1</b>	<b>Time:</b>	<b>09:00 - 10:45</b>
<b>Chair:</b>	<b>Boris EVSTATIEV, Bulgaria</b>		
<b>Hall:</b>	<b>Online</b>	<b>Virtual room:</b>	<a href="#">VR Hall 2</a>

<b>№</b>	<b>Paper</b>
ID182	<p><b>Comparative Analysis of Refrigeration Systems in Commercial Display Cabinets using R134a and R290</b> Stefan Stoyanov, and Ivan Dimchev <i>Technical University of Sofia, Sofia, Bulgaria</i></p>
ID267	<p><b>Chess Algorithm-Based Optimization of Carbon Tax Coefficients for Food Consumption and Carbon Footprint Management</b> Nimet Karabacak <sup>1</sup>, Ilgin Acar <sup>2</sup>, and Engin Kapkin <sup>3</sup> <sup>1</sup> <i>Istanbul Nişantaşı University, Istanbul, Turkey</i> <sup>2</sup> <i>Western Michigan University, Kalamazoo, MI, USA</i> <sup>3</sup> <i>Eskisehir Technical University, Eskisehir, Turkey</i></p>
ID337	<p><b>Comparative SQP-GA-PSO Algorithms for Optimal Design of Induction Motors</b> Vu Xuan Hung <i>HaNoi University of science and technology, Hanoi, Vietnam</i></p>
ID354	<p><b>Effect of the Atmospheric Boundary Layer on a Simplified Truck Model</b> Nikita Dobin <i>Technical University of Varna, Varna, Bulgaria</i> <i>IMSETCHA, Bulgarian Academy of Sciences, Varna, Bulgaria</i></p>
ID61	<p><b>Experimental Determination of the Thermal Properties of Unfired Clay Bricks with Rice Husk Additives</b> Penka Zlateva, and Lubomir Tashkov <i>Technical University of Varna, Varna, Bulgaria</i></p>
ID62	<p><b>Comparative Analysis of the Thermal Properties of Lightweight Concretes for Energy-Efficient Construction</b> Penka Zlateva <sup>1</sup>, Rositsa Petkova-Slipets <sup>2</sup>, Krum Yanazov <sup>1</sup>, and Martin Todorov <sup>3</sup> <sup>1</sup> <i>Technical University of Varna, Varna, Bulgaria</i> <sup>2</sup> <i>Varna Free University "Ch. Hrabar", Varna, Bulgaria</i> <sup>3</sup> <i>Betoniti Ltd., Varna, Bulgaria</i></p>
ID98	<p><b>Green Synthesis of Carbon Dot Sensors from Citrus Waste for Rapid Polarity Detection in Solvents</b> Charikleia Malerou <sup>1</sup>, Evangelia Kyriazi <sup>1</sup>, Vasiliki Rammou <sup>1</sup>, Kalliopi Ladomenou <sup>1</sup>, Kalliopi Kravari <sup>2</sup>, Maria Roussi <sup>1</sup>, Anna Thysiadou <sup>1</sup>, and Michail Chalaris <sup>1</sup> <sup>1</sup> <i>Democritus University of Thrace, Kavala, Greece</i> <sup>2</sup> <i>Democritus University of Thrace, Drama, Greece</i></p>
ID130	<p><b>Short-Term Energy Demand Forecasting in a University Campus Using Machine Learning</b> Georgios N. Perakis, Evangelos K. Markakis, Yiannis A. Katsigiannis, Emmanouel S. Karapidakis, and Marios Nikologiannis <i>Hellenic Mediterranean University, Crete, Greece</i></p>
ID257	<p><b>Artificial Neural Network Model for Predicting the Characteristics of a Solar Vacuum Tube System for Domestic Hot Water Heating</b> Mariyana Sestrimska, Nikolay Komitov, and Margarita Terziyska <i>University of Food Technologies, Plovdiv, Bulgaria</i></p>

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- ID275 **Analysis of the Two-Stage Phenomenon and Construction of the Theoretical Model for Metal Hydride Reactors**  
Jing Wang<sup>1</sup>, Fusheng Yang<sup>1</sup>, Xinlong Zhao<sup>1</sup>, Zaoxiao Zhang<sup>1</sup>, Jasmina Novaković<sup>2</sup>, and Zhen Wu<sup>1</sup>  
<sup>1</sup> Xi'an Jiaotong University, Xi'an, China  
<sup>2</sup> University of Belgrade, Belgrade, Serbia
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- ID310 **Use of HT-PEMFC Fuel Cells Powered by Methanol Reformate Gas as a Source of Electricity and Heat In An Integrated Off-Grid Energy System**  
Magdalena Dudek<sup>1</sup>, Andrzej Raźniak<sup>1</sup>, Bartosz Adamczyk<sup>1</sup>, Mikołaj Zarzycki<sup>2</sup>, Umar Sada<sup>3</sup>, Ivan Beloev<sup>4</sup>, Abrar Ahmad<sup>3</sup>, Jarosław Markowski<sup>5</sup>, Ilia Iliev<sup>4</sup>  
<sup>1</sup> AGH University of Krakow Kraków, Poland  
<sup>2</sup> Industrial Research Institute for Automation and Measurements, Warszawa, Poland  
<sup>3</sup> Jamia Millia Islamia, Dheli, India  
<sup>4</sup> Angel Kanchev University of Ruse, Ruse, Bulgaria  
<sup>5</sup> Poznan University of Technology Poznan, Poland
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- ID218 **Efficient FPGA-Based Implementation of YOLOv3-Tiny for Real-Time Traffic Sign Detection**  
Xuan-Dung Nguyen<sup>2,3</sup>, Tri Gia-Bao Do<sup>2,3</sup>, Minh-Bao Nguyen<sup>2,3</sup>, Thanh-Phat Nguyen<sup>1,2,3</sup>, Hieu-Truong Ngo<sup>2,3</sup>  
<sup>1</sup> ASIC LAB, Ho Chi Minh City, Vietnam  
<sup>2</sup> University of Information Technology, Ho Chi Minh City, Vietnam  
<sup>3</sup> Vietnam National University, Ho Chi Minh City, Vietnam
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Friday, November 28, 2025

<b>Session:</b>	<b>Student Session</b>	<b>Time:</b>	<b>11:00 - 12:00</b>
<b>Chair:</b>	Ivaylo STOYANOV, Bulgaria		
<b>Hall:</b>	Online	<b>Virtual room:</b>	<a href="#">VR Hall 2</a>

No	Paper
ID84	<p><b>1.5 GHz Accurate Signal Frequency Meter Design</b>                      George A. Adamidis <sup>1</sup>, and Manolis G.Tampouratzis <sup>2</sup>  <sup>1</sup> Hellenic Mediterranean University, Chania, Greece  <sup>2</sup> Hellenic Mediterranean University, Heraklion, Greece</p>
ID198	<p><b>Real-Time FPGA-Based Wideband Signal Generator for Surface Movement Radar Applications</b>                      Osman Büyükkacı <sup>1,2</sup>, and İhsan Çiçek <sup>2</sup>  <sup>1</sup> TUBITAK BİLGEM BTE, Kocaeli, Türkiye  <sup>2</sup> Gebze Technical University, Kocaeli, Türkiye</p>
ID44	<p><b>The Impact of Stephen Curry's Three-Point shooting on NBA viewership by Data Analytics Approach</b>                      Hernan Vinicio Lopez Morocho, Ritesh Rakesh Jadhav, Kalemzhan Imasheva, and Pratik Chandrakant Gotakhinde                      University of Europe for Applied Sciences, Potsdam, Germany</p>
ID155	<p><b>Explainable AI-based Deep Learning for Brain Tumor MRI Analysis: A Review</b>                      Sarah J. Mohammed, and Ghaida A. Al-Suhail                      University of Basrah, Basrah, Iraq</p>
ID289	<p><b>Integrated Threat Intelligence and Event Correlation with Wazuh, Suricata, and MISP</b>                      Manos Vasilakis <sup>1</sup>, Athanasios Dimitriadis <sup>1</sup> and Manolis Tampouratzis <sup>2</sup>  <sup>1</sup> Open University of Cyprus, Nicosia, Cyprus  <sup>2</sup> Hellenic Mediterranean University, Heraklion, Greece</p>

Friday, November 28, 2025

<b>Session:</b>	<b>Closing ceremony</b>	<b>Time:</b>	<b>12:00 - 12:10</b>
<b>Chair:</b>	Teodor ILIEV, Bulgaria		
<b>Hall:</b>	Online	<b>Virtual room:</b>	<a href="#">VR Hall 1</a>

***We are pleasure to invite you to attend the  
EEPES 2026 CONFERENCE  
24th-27th June, 2026 in Bandirma, Turkey***  
<https://eepes.eu/>

It is our great pleasure and honour to invite you to the next edition of the International Scientific Conference on Electronics, Engineering Physics and Earth Science (EEPES'2026), which will be held in a hybrid mode.

We hope this conference will represent an opportunity for young researchers to meet specialists in their field and to present their research and also to discuss with industry representatives.

All registered and presented papers at the EEPES 2026 conference will be published in the Conference Proceedings, indexing in: Scopus, Conference Proceedings Citation Index (Web of Science), and etc.

Please, add this event to your calendar!

***We are pleasure to invite you to attend the  
CIEES 2026 CONFERENCE  
25 – 27 November 2026, Bulgaria***  
<https://ciees.eu/>

It is our great pleasure and honour to invite you to the next edition of the International Scientific Conference on Communications, Information, Electronic and Energy Systems (CIEES'2026), which will be held in a hybrid mode at the last week of November, 2026.

We hope this conference will represent an opportunity for young researchers to meet specialists in their field and to present their research and also to discuss with industry representatives.

Please, add this event to your calendar!

## Project “Scientific University of Ruse”

The project "Scientific University of Ruse", is funded by the European Union - **NextGenerationEU**, through the National Recovery and Resilience Plan of the Republic of Bulgaria, under contract BG-RRP-2.013-0001, for the implementation of investments under the Recovery and Resilience Mechanism for "Creating a Network of Research Higher Education Institutions in Bulgaria - 2", under the pillar "Innovative Bulgaria", Component 2 "Research and Innovation", Investment 1 (C2.I1): "Program for Accelerating Economic Recovery and Transformation through Research and Innovation".

The vision of the Strategic Research and Innovation Development Program defines the University of Ruse "Angel Kanchev" as an internationally recognized research university with a significant contribution to the development of the European Research Area through the development of an innovation-stimulating environments for conducting interdisciplinary research, with the potential for technological transfer, internationalization and commercialization of scientific products in support of resource-efficient, balanced and responsible socio-economic development of globally connected communities.

The vision is developed in three main integrated scientific directions, incorporating 7 scientific groups which implement the current Strategic Scientific and Innovation Development Program of the Scientific University of Ruse.



### Research and development of ICT-based solutions for digital secure transformation of processes and systems

- Scientific Group 3.1.1. Digital systems and technologies for sustainable smart agriculture ( Smart Agriculture)
- Scientific Group 3.1.3. Intelligent cyber-physical systems and technologies for generating and visualizing spatial objects and processes
- Scientific Group 3.2.1. Integrated intelligent management systems for security

### Researches on systems, subjects, processes and phenomena, technologies and innovations for a equitable and sustainable green society

- Scientific Group 3.1.5. Digital Energy Systems 4.0
- Scientific Group 3.1. 6 . Mathematical modeling, innovative business models and social innovations

### Fundamental and scientific-applied research in mechatronics and new technologies

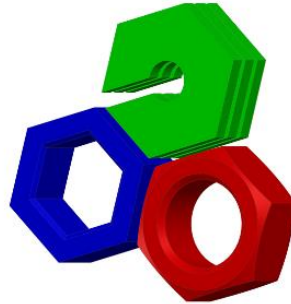
- Scientific Group 3.1.2. Sustainable transport mobility
- Scientific Group 3.1.4 . Digital, layered, energy assisted innovative technologies and models

The implementation of the Strategic Research and Innovation Development Program supports all areas of higher education at the University of Ruse, with an emphasis on those, whose research and publication activity shape the profile of the University of Ruse internationally, as well as on those, for which the support creates a prerequisite for interdisciplinary research with the potential to reach high scientific results.

**Project BG05M2OP001-1.001-0008**

**NATIONAL CENTER OF MECHATRONICS AND CLEAN TECHNOLOGIES**

**Operational Program: Science and Education for Smart Growth 2014-2020**



**ЗАЕДНО СЪЗДАВАМЕ**

**Lab L6S3: “Human Comfort, Energy and Environment “**

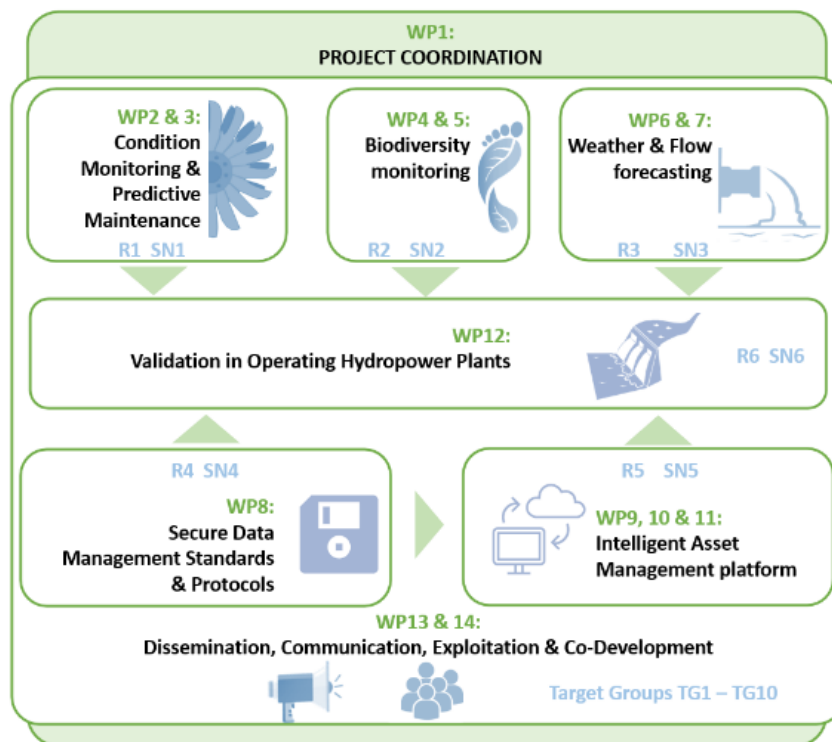
The Human Comfort, Energy and Environment Laboratory focuses on the interaction between indoor environments, human well-being, energy performance, and environmental sustainability. The lab studies thermal, visual, and acoustic comfort, energy-efficient building systems, and indoor air quality. Using field measurements, simulations, and user feedback, it aims to optimize HVAC systems, reduce energy consumption, and design occupant-centered spaces. The lab also explores how buildings impact the environment through carbon footprint analysis, integration of renewable energy, and sustainable materials. Its work supports climate-responsive architecture, smart building technologies, and improved quality of life through sustainable design.



**Project: Intelligent Asset Management Platform for Hydropower Operation and Maintenance – iAMP-Hydro, Project: [101122167], [HORIZON-CL5-2022-D3-03-08]**

The project – iAMP-Hydro, Intelligent asset Management Platform for Hydropower operation & maintenance, has 11 beneficiaries from 7 countries, and is coordinated by Professor Aonghus McNabola from School of Engineering, Trinity College Dublin, Ireland. The project partnership includes also Easy Hydro Ltd, Ireland; Cuerva Energia, Spain; Suite 5 Data Intelligence Solutions Ltd, Cyprus; CARTIF, Spain; PPC, Greece; PPC Renewables, Greece; WIP, Germany, Norge, Norway; and National University of Science and Technology POLITEHNICA Bucharest, Romania.

iAMP-Hydro is organised across eight thematic areas of work. These areas address distinct work themes within the project which are split into phases in line with the Lump Sum funding arrangement. This results in 14 individual work packages (WPs).



iAMP-Hydro aims at improving the operation of existing hydropower plants (HPP) through the development of new digital sensors and services which will collectively form a novel intelligent Asset Management Platform (iAMP), encompassing secure open and transparent data-sharing protocols and three novel digital solutions. These include condition monitoring and predictive maintenance for hydropower turbines; ecological status monitoring for sustainable water resources management; and improved flow and power forecasting. The full package of digital solutions will be validated at a diverse set of five real-world existing HPP in Europe, producing evidence for policy-making to support the green and digital transition of hydropower. The existing plants (hereinafter referred to as validation site) include different installed capacities, turbine types, water uses, flow and head regimes, climatic conditions, and environmental sensitivities.

## Special Issue

# Application of Artificial Intelligence in the New Era of Communication Networks, 2nd Edition

### Message from the Guest Editors

Applications of machine learning in wireless and mobile communications networks have been attracting increasing attention, especially in the new era of big data and IoT, where data mining and data analysis technologies represent effective approaches to solving wireless system issues. Our main aim in launching this Special Issue is to provide an overview of current research on wireless and mobile communication technologies, with contributions from the fields of machine learning, mobile edge computing, blockchain, and other artificial intelligence, including channel modelling, signal estimation and detection, energy efficiency, vehicular communications, and wireless multimedia communications. Topics of interest include, but are not limited to, the following:

- Wireless and wireline communications;
- Beyond 5G and 6G access and core networks;
- Blockchain services and applications;
- Artificial intelligence and intelligent systems;
- Big data analysis;
- Cloud technologies and applications;
- Machine learning;
- Internet of Everything;
- Autonomous driving and V2X solutions;
- Next-generation networks;
- Holographic communication;
- Cyber security;
- e-Health.

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### Guest Editors

Dr. Teodor B Iliev

Dr. Ivaylo Stoyanov

Prof. Dr. Kassymbek Ozhikenov

Dr. Alina Fazylova

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### Deadline for manuscript submissions

31 August 2026



## Electronics

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# EEPES 2026

## Call for Papers

24 - 27 June, 2026  
Bandirma, Turkey & Online

Scopus®

### About

The conference is aimed at providing a vibrant platform for sharing ideas among researchers and practitioners from both industry and academia working on state-of-the-art research and development in all areas of physics and allied technology, such as Engineering Physics, Computer Science, Telecommunications, Electronics, Renewable Energy, Mathematics and Smart materials, etc. EEPES 2025 welcomes all high-quality research papers and presentations from related research fields. The conference will be in HYBRID mode – face to face and/or virtual.

### Indexing and Publishing

All registered and presented papers on EEPES 2026 conference will be submitted for inclusion in the Conference Proceedings, indexing in:

Scopus, CPCI (part of Web of Science).

### General Conference Chairs

**Teodor ILIEV,**  
University of Ruse, Bulgaria  
**Ivaylo STOYANOV**  
University of Ruse, Bulgaria

### Local Organizing Committee Chair

**Selahattin KOSUNALP**  
Bandirma Onyedi Eylül University (Turkey)

### Main Topics

- Telecommunication Systems
- Applied and Engineering Physics
- Renewable Energy and Green Technologies
- Distributed Ledger Technologies and Blockchain
- Electronics, Power Electronics and EMC
- Information Technologies and Artificial Intelligence
- Energy Efficiency and Applied Thermodynamics
- Optical and Electromagnetic Communication
- Mechatronics and Industrial Automation
- Automotive Engineering and E-vehicles
- Engineering Education and Engineering Management
- Special Session

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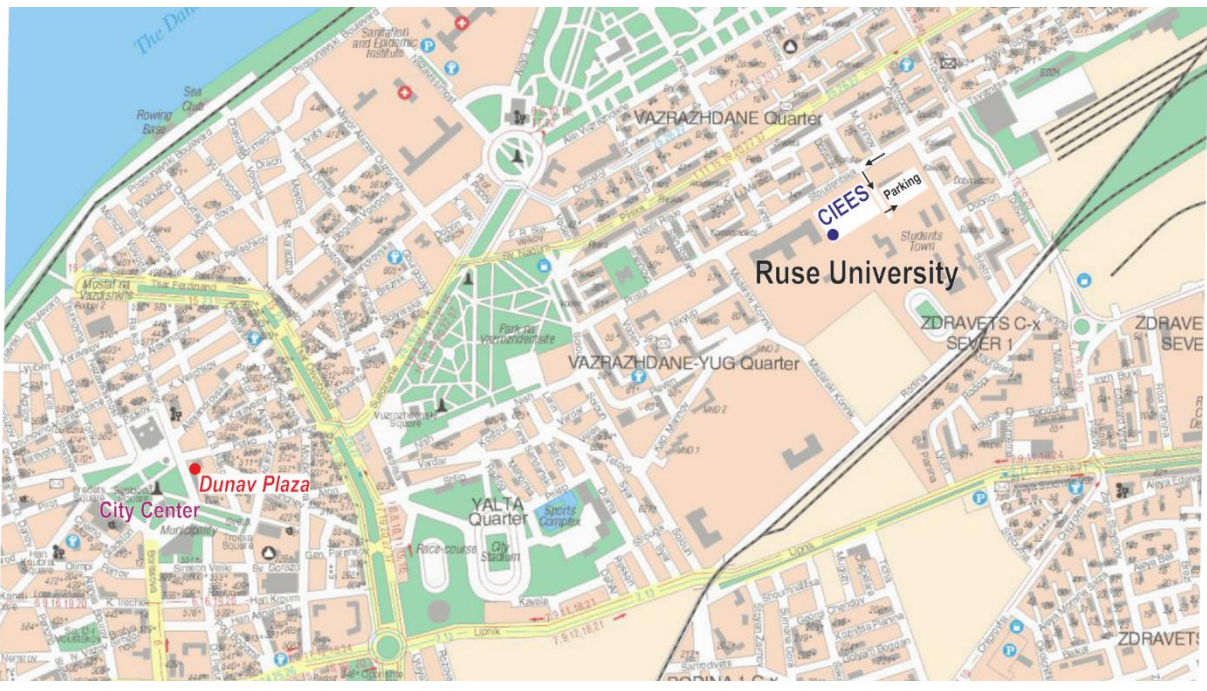
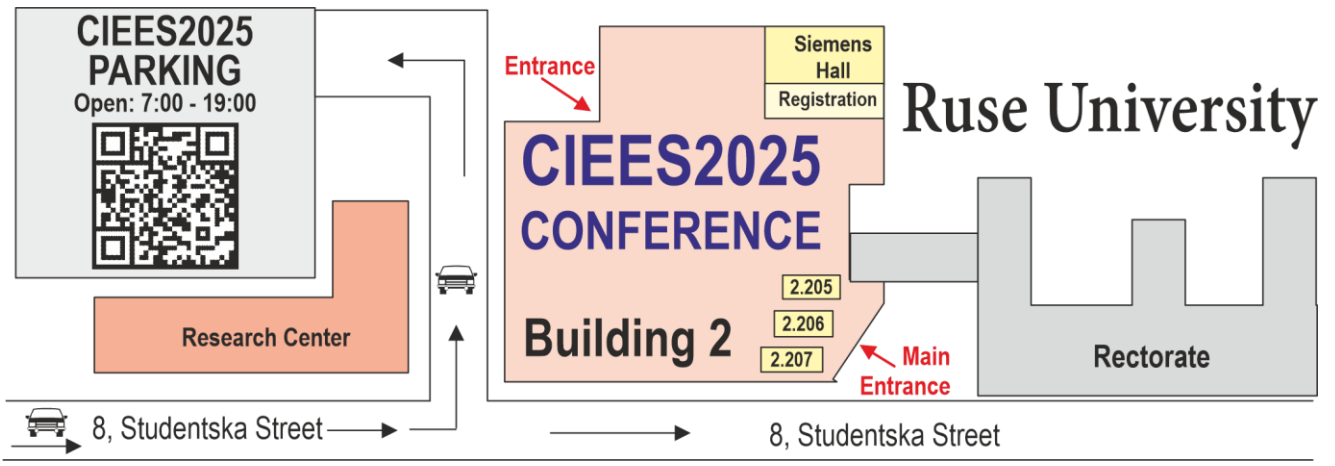
EEPES Ltd.  
Ruse, Bulgaria



### This event is organized by:

CIEES - Association on Communications,  
Information, Electronic and Energy Systems  
NTCERC - New Technologies and  
Clean Energy Research Center

We kindly ask you to forward this message to your colleagues,  
friends and to every person, that could be potentially interested!  
We thank you for your collaboration and stay at your disposal for any further information!



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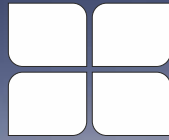
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