Technical University of Sofia
Faculty of Computer Systems and Technologies



P R O G R A M

2026 14th International Scientific Conference on Computer Science (COMSCI)

13-15 September 2026
Hotel Lazur, Sozopol, Bulgaria | Hybrid Conference

Technically co-sponsored by IEEE | Conference Record #71283

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COMSCI 2026 will be held on 13-15 September 2026 in hybrid form at Hotel Lazur, Sozopol, Bulgaria, and online.

ABOUT COMSCI 2026

The 2026 14th International Scientific Conference on Computer Science (COMSCI), organized by the Faculty of Computer Systems and Technologies at the Technical University of Sofia, provides a forum for presenting and discussing innovative ideas, concepts and technologies in computer science, computer and software engineering, information technology and their applications.

Dates	13-15 September 2026
Venue	Hotel Lazur, Sozopol, Bulgaria, and online
Format	Hybrid conference
Working languages	English and Bulgarian
IEEE Conference Record	#71283
Conference website	e-university.tu-sofia.bg/e-conf/?konf=252

CONFERENCE TOPICS

1. Artificial Intelligence, Robotics and Control
2. Cyber Security and Cyber Protection
3. Data Structures and Storage, Cloud and Blockchain Technologies
4. Education 4.0
5. Electric and Autonomous Vehicles
6. High Technology Management
7. Human-Centered Computing
8. Renewable and Green Energy
9. Smart Cities and Smart Society
10. Software Engineering
11. Software Technologies and Applications Systems
12. Telecommunications Engineering

PUBLICATION

The papers listed in this final programme constitute the IEEE proceedings submission set. Accepted and presented papers designated for the IEEE proceedings will be submitted for possible inclusion in IEEE Xplore and Scopus, subject to IEEE quality and publication requirements.

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PROGRAM OVERVIEW

Included IEEE papers	Oral presentations	Poster presentations	Presentation time
62	47	15	Oral: 15 min | Poster: 3 min

Date	Time	Activity	Section / Notes
Sunday, 13 September	14:00-16:00	Registration and technical check-in	Hotel Lazur / online desk
	16:00-16:30	Official Conference Opening	Chair: Prof. Ognyan Nakov
	16:30-18:30	**Plenary Session - Invited Talks**	Chair panel: Prof. Roumen Trifonov
Monday, 14 September	08:30-10:30	**Oral Session 1**	Artificial Intelligence, Robotics and Control - Part I
	10:30-11:15	Coffee break and networking	
	11:15-13:00	**Oral Session 2**	Artificial Intelligence, Robotics and Control - Part II
	13:00-14:00	Lunch break	
	14:00-16:00	**Oral Session 3**	Artificial Intelligence, Robotics and Control - Part III
	16:00-16:15	Coffee break	
	16:15-18:30	**Oral Session 4**	Software Engineering; Software Technologies and Applications Systems
	18:30-19:15	Workshop	Sustainable Development of the “Heritage BG” Centre of Excellence
Tuesday, 15 September	08:30-10:30	**Oral Session 5**	Education 4.0; Renewable and Green Energy; High Technology Management
	10:30-10:45	Coffee break	
	10:45-12:30	**Oral Session 6**	Cyber Security; Human-Centered Computing; Smart Cities and Smart Society
	12:30-13:00	Workshop	Presentation of Research Projects
	13:00-14:00	Lunch break	
	14:00-14:45	Poster lightning presentations	15 papers x 3 min
	14:45-15:30	Poster viewing, discussion and networking	Five thematic poster groups
	15:30-16:15	Workshop	Doctoral Schools for Science, Innovation and Green Energy in ICT (DUNISvICT)
	16:15-17:00	Workshop	Centre of Excellence “Universities for Science, Informatics and Technologies in the E-Society” (UNITe)
	17:00	Official Conference Closing Ceremony	Chair: Prof. Nikolay Hinov

Sunday, 13 September 2026

Hall 1, Hotel Lazur, Sozopol, Bulgaria, and online

PLENARY SESSION - INVITED TALKS

16:30-18:30 | Chair panel: Prof. Roumen Trifonov

16:30-17:10

Agentic AI for Cyber-Resilient Digital Twins: Trusted Autonomous Control of Intelligent Critical Infrastructures

Assoc. Prof. Dmytro Prokopovych-Tkachenko

University of Customs and Finance, Dnipro, Ukraine; Institute of Information, Security and Law of the National Academy of Legal Sciences of Ukraine, Ukraine

17:10-17:50

Grid-Connected Inverters Induced Power Surges in Electric Power System

Prof. Sasa Sladic

University of Rijeka, Rijeka, Croatia

17:50-18:30

From Stakeholder Needs to Deployed Practice: Designing and Evaluating a Governed Generative-AI Assistant for Entrepreneurship Education

Assoc. Prof. Angel Marinov

Technical University of Varna, Varna, Bulgaria

Monday, 14 September 2026

Hall 1, Hotel Lazur, Sozopol, Bulgaria, and online

08:30-10:30	ORAL SESSION 1 - Artificial Intelligence, Robotics and Control, Part I
15 min / paper	*Chairs: Prof. Roumen Trifonov; Assoc. Prof. Galya Pavlova*

Time / Code	Paper	Authors
	ARTIFICIAL INTELLIGENCE, ROBOTICS AND CONTROL	
08:30-08:45 P01	**The Role of Artificial Intelligence in the Analysis and Design of Website Content Development and Optimization**	*Vasileios Bairaktaris, Leonidas Fragidis*
08:45-09:00 P10	**Designing Generative Intelligent and Expressive Interfaces for Child-Robot Interaction**	*Anna Kostadinova Lekova, Tanio Tanev*
09:00-09:15 P84	**Conceptual Generalized Net Model for Investigating the Learning Process within an Adaptive Virtual Reality Training Environment**	*Dilyana Budakova, Dimitar Minkov, Roumen Trifonov*
09:15-09:30 P12	**The Role of Python Programming in Data Analysis and Statistical Processing for the Nanostructural Characterization of Biological Materials**	*Sofoklis Christoforidis, Dimosthenis Pappas, Eleni Kromitoglou, Daniela Minkovska*
09:30-09:45 P22	**Intelligent Systems with Fuzzy Logic for Multifactor Prediction and Prevention of Student Dropout: Theoretical Model and Software Implementation**	*Roumen Trifonov, Georgi Popov, Liliya Andonova*
09:45-10:00 P25	**Application and Simulations of Digital Twin in Nuclear Technologies and Engineering**	*Miroslav Avramov, Veska Gancheva*
10:00-10:15 P27	**Real-Time Fault Diagnosis in Nuclear Power Engineering Using Recurrent Neural Network and Long Short-Term Memory Models**	*Miroslav Avramov, Veska Gancheva*
10:15-10:30 P30	**Design and Preliminary Evaluation of a Retrieval-Augmented Generation Module for Mental Health Information Support**	*Paulina Tsvetanova Tsvetkova*

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Hall 1, Hotel Lazur, Sozopol, Bulgaria, and online

11:15-13:00 — ORAL SESSION 2 - Artificial Intelligence, Robotics and Control, Part II

15 min / paper

Chairs: Prof. Roumen Trifonov; Assoc. Prof. Galya Pavlova

Time / Code	Paper	Authors
	ARTIFICIAL INTELLIGENCE, ROBOTICS AND CONTROL	
11:15-11:30 P35	**Preferences regarding the application of AI in Python programming training**	*Svetlana Angelova Toncheva-Pencheva*
11:30-11:45 P36	**Research and Analysis of Database Task Solving Using Artificial Intelligence and Independent Student Solutions at the Faculty of Computer Systems and Technologies, Technical University of Sofia**	*Irina Georgieva, Petko Danov, Nadejda Kuchmova*
11:45-12:00 P42	**Multi-Person Tracking in Crowd Videos Captured by Wearable Cameras**	*Hiroyuki Kumazawa, Yuki Fujimoto*
12:00-12:15 P44	**Expressive speech synthesis for the Kazakh language in modern neural network TTS systems**	*Aidana Karibayeva, Vladislav Karyukin*
12:15-12:30 P50	**Monitoring the habits of wild animals in the Bulgarian mountains using camera traps through time series analysis**	*Milena Kirilova Lazarova, Petar Yavorov Matov, Simona Kirilova Filipova-Petrakieva*
12:30-12:45 P53	**A Lightweight Document-Grounded Question Answering Architecture for Medical Guidelines**	*Milen Krasimirov Mladenov, Veska Stefanova Gancheva*
12:45-13:00 P54	**A Low-Cost Robotic Platform for Personalized Upper-Limb Rehabilitation**	*Pancho Dachkinov, Tanio Tanev*

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Hall 1, Hotel Lazur, Sozopol, Bulgaria, and online

14:00-16:00 — ORAL SESSION 3 - Artificial Intelligence, Robotics and Control, Part III

15 min / paper

Chairs: Prof. Roumen Trifonov; Assoc. Prof. Galya Pavlova

Time / Code	Paper	Authors
	ARTIFICIAL INTELLIGENCE, ROBOTICS AND CONTROL	
14:00-14:15 P58	**Comparative Analysis of Machine Learning Models for Student Dropout Risk Prediction**	*Roumen Trifonov, Georgi Popov, Liliya Andonova*
14:15-14:30 P59	**Applying Large Language Models for Automated Test Case Generation in IoT Environments**	*Georgi Georgiev, Roumen Trifonov, Daniela Gotseva*
14:30-14:45 P60	**Digital Twins: A Protected Approach for Data Acquisition and Synchronisation**	*Antouan Anguelov, Roumen Trifonov, Galya Pavlova*
14:45-15:00 P61	**Artificial Intelligence Self-Modeling: Unity as a Research Platform**	*Seyed Soroosh Khadem, Roumen Trifonov, Galya Pavlova*
15:00-15:15 P63	**Artificial Intelligence and Intelligent Educational Technologies in Economics Education**	*Rumina Valkova*
15:15-15:30 P69	**Comparative Evaluation of Interfaces for Local LLM Interaction**	*Elena Ventseslavova Antonova, Daniela Veleva Minkovska, Kiril Andreev Koparanov, Mihael Naskov Tasev*
15:30-15:45 P05	**Building a Conversational AI Sales Assistant on a Curated Semantic Layer: A Databricks Genie Case Study in a European Photovoltaic SME**	*Elena Gurova*
15:45-16:00 P79	**Contemporary Sensor Networks - Solutions, Trends and Applications**	*Vasil D. Gatev, Valentin S. Mollov*

Monday, 14 September 2026

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16:15-18:30	ORAL SESSION 4 - Software Engineering and Software Technologies
15 min / paper	*Chair: Assoc. Prof. Valentin Hristov*

Time / Code	Paper	Authors
	SOFTWARE ENGINEERING	
16:15-16:30 P23	**AI Upscaling and Frame Generation for Real Time Image Rendering**	*Georgi Georgiev Georgiev, Daniela Asenova Gotseva*
16:30-16:45 P55	**AI-Based Query Optimization in Manufacturing Database Systems**	*Bujar Prokshi, Daniela Minkovska, Nikolay Hinov, Berat Ujkani*
16:45-17:00 P68	**From Threads to Tasks: The Architectural Evolution of Concurrency in Java and C#/.NET**	*Elizabet Mariova Mihaylova*
17:00-17:15 P71	**Scaling DNA Indexing Algorithms on NUMA Architectures**	*Dobromir Petrov, Asen Iliev, Katya Gabrovska, Stanislav Simeonov*
17:15-17:30 P78	**From Sequencing Errors to Pipeline Design: Quality Metrics, Filtering Rationale and a GPU-Aware Reference Implementation for FASTQ Preprocessing**	*Dobromir Panchev, Veselin Georgiev, Katya Gabrovska, Stanislav Simeonov*
	SOFTWARE TECHNOLOGIES AND APPLICATIONS SYSTEMS	
17:30-17:45 P46	**ESG Reporting Readiness in SAP-Centered ERP Environments: A Framework for Data Governance, Semantic Modeling and ML Analytics**	*Reneta Duhova, Milena Lazarova, Tasho Tashev, Petia Georgieva*
17:45-18:00 P66	**Context-Specific Multimodal Business Benchmarking: A Method for Company-Aligned AI Evaluation**	*Venko Andonov, Ivona Velkova*
18:00-18:15 ID 5934	**NLP and Network Models for Bulgarian Historical Data**	*Plamen Ognyanov Nakov, Eleonora Ivova Ivanova*
18:15-18:30 ID 5935	**Integrated Cultural Heritage Database for Bulgaria**	*Plamen Ognyanov Nakov, Eleonora Ivova Ivanova*

Tuesday, 15 September 2026

Hall 1, Hotel Lazur, Sozopol, Bulgaria, and online

08:30-10:30	ORAL SESSION 5 - Education, Green Energy and High Technology Management
15 min / paper	*Chairs: Prof. Todor Stoilov; Prof. Krasimira Stoilova*

Time / Code	Paper	Authors
	EDUCATION 4.0	
08:30-08:45 P82	**Analysis of the Approach to the Development and Integration of Interdisciplinary STEM Centers under Bulgaria's National Recovery and Resilience Plan (NRRP)**	*Darina Marinova, Georgi Georgiev, Nikolay Hinov, Daniela Gotseva*
08:45-09:00 P56	**Detecting Affective Markers in Students' Engineering Fairy Tales: An Embedding-Based Unsupervised Approach**	*Ralitza Raynova*
09:00-09:15 P64	**Reversible Synthesis of a Three-Input Boolean Function Using Cascaded Two-Input MUX Structures Implemented Entirely with Toffoli Gates**	*Adriana Naydenova Borodzhieva*
09:15-09:30 P70	**Reversible Logic Gates as a Pedagogical Framework for Digital Circuit Design**	*Adriana Naydenova Borodzhieva*
09:30-09:45 P77	**Digitalization of Dual Education: Bridging Industry 4.0 Skills and Vocational Training in Europe**	*Maria Atanasova Kazakova*
	RENEWABLE AND GREEN ENERGY	
09:45-10:00 P04	**Population-Based Evaluation of Direct and Pre-Boost Forward PV Microinverters**	*Angel Marinov, Kaloyan Solenkov*
	HIGH TECHNOLOGY MANAGEMENT	
10:00-10:15 P41	**Trace-Based Metrics for Coordination Efficiency in Distributed Engineering Teams**	*Kiril Anguelov, Ivo Hristov, Radoslav Kostev*
10:15-10:30 P49	**Multi-Agent Systems as a Tool for Developing Intelligent Business Ecosystems**	*Radoslav Kostev*

Tuesday, 15 September 2026

Hall 1, Hotel Lazur, Sozopol, Bulgaria, and online

10:45-12:30 — ORAL SESSION 6 - Cyber Security, Human-Centered Computing and Smart Cities

15 min / paper

Chairs: Prof. Nikolay Hinov; Prof. Zoran Zlatev; Assoc. Prof. Valentin Hristov (Smart Cities)

Time / Code	Paper	Authors
	CYBER SECURITY AND CYBER PROTECTION	
10:45-11:00 P65	**Transparent Case-Level Routing for Phishing Detection and Head-Label ATT&CK Mapping**	*Venko Andonov, Ivona Velkova*
11:00-11:15 P67	**Electronic Documents as Evidence in Bulgarian Civil and Administrative Litigation**	*Ralitza Dimitrova*
11:15-11:30 ID 5928	**Agentic AI and Blockchain for Critical Infrastructure Cybersecurity**	*Olga Torstensson, Dmytro Prokopovych-Tkachenko, Yuliia Kovalenko, Kostiantyn Babenko, Nazarii Nomerchuk*
	HUMAN-CENTERED COMPUTING	
11:30-11:45 P28	**Cognitive State-Aware Human-AI Interaction: A Conceptual Framework for Adaptive LLM-Based Assistance**	*Teodor Ukov, Georgi Tsochev, Roumen Trifonov*
11:45-12:00 P09	**Blind Noise-Level Estimation as a Hidden Variable in the Evaluation of Image Denoising Algorithms**	*Saso Koceski, Natasa Koceska, Zoran Zlatev, Nikolay Hinov*
	SMART CITIES AND SMART SOCIETY	
12:00-12:15 P57	**Research on the Consumption of Electrical Energy for Stairwell Lighting**	*Aleksandar Hristov, Valentin Hristov, Roumen Trifonov*
12:15-12:30 P76	**Reducing Electricity Consumption for Stairwell Lighting in Neighborhoods with Low-Density Residential Development**	*Aleksandar Hristov, Valentin Hristov, Roumen Trifonov*

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Hall 1, Hotel Lazur, Sozopol, Bulgaria, and online

POSTER SESSIONS - LIGHTNING PRESENTATIONS

14:00-14:45 | 3 min per paper | Chairs: Prof. Georgi Popov; Prof. Daniela Minkovska

Time / Code	Paper	Authors
	ARTIFICIAL INTELLIGENCE, ROBOTICS AND CONTROL	
14:00-14:03 P16	**The Role of Artificial Intelligence in Managing the Energy Deficit in Cuba**	*Anna Penkova*
14:03-14:06 P34	**MVC-Based Multi-Agent Architecture with MCP Integration for Intelligent Administrative Chatbots in Educational Information Systems**	*Kalina Nikiforova-Ilieva, Tsvetozar Georgiev*
14:06-14:09 P43	**Design of Artificial Intelligence (AI) Module for Specialized Images Recognition and Classification**	*Georgi Popov, Milena Karova, Ivelin Ivanov*
14:09-14:12 P48	**The Evolution of Document Processing Pipelines: A Comprehensive Survey on Integrating Computer Vision and Large Language Models for Mixed-Content Recognition**	*Neven Krasimirov Nikolov*
14:12-14:15 P75	**AI-informed Techno-Economic Optimization of Battery Energy Storage Systems Via Degradation Forecasting: Critical Review and Conceptual Framework**	*Eleonora Ivova Ivanova, Dimiter Stoyanov Gerov*
	CYBER SECURITY AND CYBER PROTECTION	
14:15-14:18 P13	**A Cybersecurity-Aware Operational Design Domain for Attack-Adaptive Degradation in Autonomous Vehicles**	*Zoran Zlatev, Yavor Tomov, Atakan Salimov, Adnan Redzheb, Denitsa Ivanova-Mutafchieva, Byulbyul Zyulyamova*
14:18-14:21 P14	**Uncertainty-Aware Capability Gating for Cyber-Resilient Degradation in Autonomous Vehicles**	*Zoran Zlatev, Yavor Tomov, Atakan Salimov, Adnan Redzheb, Denitsa Ivanova-Mutafchieva, Byulbyul Zyulyamova*
14:21-14:24 P17	**Analysis of Cyber Threats in Intelligent Traffic Management Systems: A Review**	*Plamen Stanchev, Nikolay Hinov, Silvia Ivanova*

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Hall 1, Hotel Lazur, Sozopol, Bulgaria, and online

POSTER SESSIONS - LIGHTNING PRESENTATIONS (continued)

Time / Code	Paper	Authors
14:24-14:27 P21	**Spectral and Percolation-Based Analysis of Cyber Threat Propagation in Complex Networks**	*Tsvetelina Stefanova, Tsvetozar Georgiev*
	SOFTWARE TECHNOLOGIES AND APPLICATIONS SYSTEMS	
14:27-14:30 P18	**Quantum-Secured Medical Information Systems in Distributed Database Environments: A Simulation-Based Comparative Analysis**	*Sofoklis Christoforidis, Dimitrios Thomopulos, Efstathios Titotoulos, Eleni Kromitoglou, Daniela Minkovska, Ognyan Nakov*
14:30-14:33 P38	**Characterizing Performance-Fidelity Trade-offs in Terminal-Based Symbolic Video Rendering**	*Iva Nikolova, Georgi Zapryanov, Victor Kostadinov*
	SOFTWARE ENGINEERING	
14:33-14:36 P08	**A Sovereign, End-to-End Hardware-Hardened IoT Architecture Using Mutual TLS and Time-Series Data Management on Edge-to-Gateway Infrastructure**	*Neven Nikolov, Ognyan Nakov, Yordan Petkov*
14:36-14:39 P31	**Industry 4.0 - Limitations of the Decision-Making Approaches in Industrial Processes**	*Joana Ladozova, Daniela Minkovska, Vesselin Gueorguiev*
	HIGH TECHNOLOGY MANAGEMENT	
14:39-14:42 P15	**A Unified Bayesian Framework for Data Matching and Fault Detection in Diverse Systems**	*George Popov, Antoaneta Popova*
14:42-14:45 P47	**Influence of Trading Volume on Price Forecasting Using an Automated Tool**	*Kiril Andreev Koparanov*

14:45-15:30 Poster viewing, discussion and networking

Tuesday, 15 September 2026 - Closing Events

Hall 1, Hotel Lazur, Sozopol, Bulgaria, and online

15:30-16:15	**WORKSHOP** **Doctoral Schools for Science, Innovation and Green Energy in ICT (DUNISvICT)**
16:15-17:00	**WORKSHOP** **Centre of Excellence "Universities for Science, Informatics and Technologies in the E-Society" (UNITe)**
17:00	**Official Conference Closing Ceremony** **Chair: Prof. Nikolay Hinov**

