



Technical University of Sofia
Faculty of Computer Systems and Technologies



PROGRAM

2026 14th International Scientific Conference

COMPUTER SCIENCE

(COMSCI 2026)

13 – 15 September 2026

Hotel Lazur, Sozopol, Bulgaria | Hybrid Conference



Technically co-sponsored by IEEE | Conference Record #71283
Part of the "Science Days of TU-Sofia" forum

ORGANIZERS AND TECHNICAL CO-SPONSORSHIP



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IEEE Bulgaria Section
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Bulgaria Section CAS/SSC Joint Chapter
Conference partner

**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 "Computer Science" (COMSCI 2026) , organized by the Faculty of Computer Systems and Technologies at the Technical University of Sofia, Bulgaria, continues the tradition of of thirteen conferences held between 2004 and 2025. The forum provides a platform for presenting and discussing innovative ideas, concepts, and technologies in computer science, computer and software engineering, information technology, and their applications.

Participation by researchers from different countries supports the development of a scientific community and encourages professional interaction and international cooperation.

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	http://e-university.tu-sofia.bg/e-conf/?konf=252

CONFERENCE TOPICS

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

PUBLICATION

All accepted and presented papers will be submitted for possible inclusion in IEEE Xplore and Scopus, or considered for conference special issues in journals with SJR and Impact Factor, in accordance with the conference publication policy.

ORGANIZING COMMITTEE

Honorary Chair	Ognyan NAKOV, Technical University of Sofia, Bulgaria
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INTERNATIONAL PROGRAM COMMITTEE

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PROGRAM OVERVIEW

Included papers	Oral presentations	Poster presentations	Working languages
80	60	20	English / Bulgarian
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 – 11:00	Oral Session 1	Artificial Intelligence, Robotics and Control – Part I
	11:00 – 11:15	Coffee break	
	11:15 – 13:00	Oral Session 2	Artificial Intelligence, Robotics and Control – Part II
	13:00 – 14:00	Lunch break	
	14:00 – 16:15	Oral Session 3	Artificial Intelligence, Robotics and Control – Part III
	16:15 – 16:30	Coffee break	
	16:30 – 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 – 10:45	Oral Session 5	Education 4.0; Human-Centered Computing; Renewable and Green Energy; High Technology Management
	10:45 – 11:00	Coffee break	
	11:00 – 12:30	Oral Session 6	Cyber Security; Telecommunications; Smart Cities and Smart Society
	12:30 – 13:00	Workshop	Presentation of Research Projects
	13:00 – 14:00	Lunch break	
	14:00 – 15:30	Poster Sessions	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

Link for online participation: <https://teams.microsoft.com/meet/397832134873547?p=nehfQWHoLK2AuRUodd>

Sunday, 13 September 2026

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

14:00 – 16:00	Registration and Technical Check-in
16:00 – 16:30	Official Conference Opening <i>Chair: Prof. Ognyan Nakov</i>
16:30 – 18:30	PLENARY SESSION – INVITED TALKS <i>Chair panel: Prof. Roumen Trifonov</i>
Agentic AI for Cyber-Resilient Digital Twins: Trusted Autonomous Control of Intelligent Critical Infrastructures <i>Assoc. Prof. Dmytro Prokopovych-Tkachenko</i> University of Customs and Finance, Dnipro, Ukraine; Institute of Information, Security and Law of the National Academy of Legal Sciences of Ukraine, Ukraine	
Grid-Connected Inverters Induced Power Surges in Electric Power System <i>Prof. Sasa Sladic</i> University of Rijeka, Rijeka, Croatia	
From Stakeholder Needs to Deployed Practice: Designing and Evaluating a Governed Generative-AI Assistant for Entrepreneurship Education <i>Assoc. Prof. Angel Marinov</i> Technical University of Varna, Varna, Bulgaria	

Monday, 14 September 2026

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

08:30 – 11:00	ORAL SESSION 1 – Artificial Intelligence, Robotics and Control, Part I <i>Chairs: Prof. Roumen Trifonov; Assoc. Prof. Galya Pavlova</i>
ARTIFICIAL INTELLIGENCE, ROBOTICS AND CONTROL	
P01	The Role of Artificial Intelligence in the Analysis and Design of Website Content Development and Optimization <i>Vasileios Bairaktaris, Leonidas Fragidis</i>
P06	Inverse-Based Sparse Logistic Regression Algorithms with Joint Gradient Descent Updates: Evaluation on Synthetic, Bench-mark, and Educational Data <i>Ekaterina Gribanova</i>
P07	Energy data readiness for AI-driven day-ahead price forecasting: a Bulgarian case study <i>Teodor Bobochikov, Valeri Mladenov</i>
P10	Designing Generative Intelligent and Expressive Interfaces for Child-Robot Interaction <i>Anna Lekova, Tania Tanev</i>
P84	Conceptual Generalized Net Model for Investigating the Learning Process within an Adaptive Virtual Reality Training Environment <i>Dilyana Budakova, Dimitar Minkov, Roumen Trifonov</i>
P12	The Role of Python Programming in Data Analysis and Statistical Processing for the Nanostructural Characterization of Biological Materials <i>Dimosthenis Pappas, Sofoklis Christoforidis, Eleni Kramitoglou, Daniela Minkovska</i>
P22	Intelligent Systems with Fuzzy Logic for Multifactor Prediction and Prevention of Student Dropout: Theoretical Model and Software Implementation <i>Roumen Trifonov, Georgi Papov, Liliya Andonova</i>
P24	Robust and Explainable Multi-Stream Detection of Face Swapping and AI-Generated Face Attacks <i>Georgi Kotov</i>
P25	Application and Simulations of Digital Twin in Nuclear Technologies and Engineering <i>Miroslav Avramov, Veska Gancheva</i>
P27	Real-Time Fault Diagnosis in Nuclear Power Engineering Using Recurrent Neural Network and Long Short-Term Memory Models <i>Miroslav Avramov, Veska Gancheva</i>
P30	Design and Preliminary Evaluation of a Retrieval-Augmented Generation Module for Mental Health Information Support Using a Furhat Virtual Agent <i>Paulina Tsvetkova</i>

Monday, 14 September 2026

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

11:15 – 13:00	ORAL SESSION 2 – Artificial Intelligence, Robotics and Control, Part II <i>Chairs: Prof. Roumen Trifonov; Assoc. Prof. Galya Pavlova</i>
ARTIFICIAL INTELLIGENCE, ROBOTICS AND CONTROL	
P35	Preferences regarding the application of AI in Python programming training <i>Svetlana Pencheva</i>
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 <i>Irina Georgieva, Petko Danov, Nadejda Kuchmova</i>
P42	Multi-Person Tracking in Crowd Videos Captured by Wearable Cameras <i>Hiroyuki Kumazawa, Yuuki Fujimoto</i>
P44	Expressive speech synthesis for the Kazakh language in modern neural network TTS systems <i>Aidana Karibayeva, Vladislav Karyukin</i>
P45	Image Enhancement for Microbial Colony Analysis in Petri Dish Images <i>Oyunbayar Munkhbat, Milena Lazarova</i>
P50	Monitoring the habits of wild animals in the Bulgarian mountains using camera traps through time series analysis <i>Milena Lazarova, Petar Matov, Simona Petrakieva</i>
P53	A Lightweight Document-Grounded Question Answering Architecture for Medical Guidelines <i>Milen Mladenov, Veska Gancheva</i>
P54	A Low-Cost Robotic Platform for Personalized Upper-Limb Rehabilitation <i>Pancho Dachkinov, Tanio Tanev</i>

Monday, 14 September 2026

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

14:00 – 16:15	ORAL SESSION 3 – Artificial Intelligence, Robotics and Control, Part III <i>Chairs: Prof. Roumen Trifonov; Assoc. Prof. Galya Pavlova</i>
ARTIFICIAL INTELLIGENCE, ROBOTICS AND CONTROL	
P58	Comparative Analysis of Machine Learning Models for Student Dropout Risk Prediction <i>Roumen Trifonov, Georgi Popov, Liliya Andonova</i>
P59	Applying Large Language Models for Automated Test Case Generation in IoT Environments <i>Georgi Georgiev, Roumen Trifonov, Daniela Gotseva</i>
P60	Digital Twins: A Protected Approach for Data Acquisition and Synchronisation <i>Antouan Anguelov, Roumen Trifonov, Galya Pavlova</i>
P61	Artificial Intelligence Self-Modeling: Unity as a Research Platform <i>Seyed Soroosh Khadem, Roumen Trifonov, Galya Pavlova</i>
P63	Artificial Intelligence and Intelligent Educational Technologies in Economics Education <i>Rumina Valkova</i>
P69	Comparative Evaluation of Interfaces for Local LLM Interaction <i>Elena Antonova, Daniela Minkovska, Kiril Koparanov, Mihael Tasev</i>
P72	Resource Allocation for Stochastic Press Operation in Powder Metallurgy <i>Krasimira Stoilova, Todor Stoilov</i>
P73	A Sequence of Evaluations of ARIMA Forecast Modelling <i>Todor Stoilov, Krasimira Stoilova</i>
P05	Building a Conversational AI Sales Assistant on a Curated Semantic Layer: A Databricks Genie Case Study in a Photovoltaic SME <i>Elena Gurova</i>
P79	Contemporary sensor networks - solutions, trends and applications <i>Vasil Gatev, Valentin Mollov</i>
P80	IT Application Controls for ML Model Governance <i>Angel Duhov, Reneta Duhova, Milena Lazarova, Valentin Hristov, Tasho Tashev</i>

Monday, 14 September 2026

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

16:30 – 18:30		ORAL SESSION 4 – Software Engineering and Software Technologies <i>Chairs: Assoc. Prof. Valentin Hristov</i>	
SOFTWARE ENGINEERING			
P23	AI Upscaling and Frame Generation for Real Time Image Rendering <i>Georgi Georgiev, Daniela Gotseva</i>		
P37	Clustering Methods for Analysis and Optimization of Time Series Data <i>Teodora Mecheva, Nikolay Kakanakov</i>		
P55	AI-Based Query Optimization in Manufacturing Database Systems <i>Bujar Prokshi, Daniela Minkovska, Nikolay Hinov, Berat Ujkani</i>		
P68	From Threads to Tasks: The Architectural Evolution of Concurrency in Java and C#/.NET <i>Elizabet Mihaylova</i>		
P71	Scaling DNA Indexing Algorithms on NUMA Architectures <i>Dobromir Petrov, Asen Iliev, Katya Gabrovska, Stanislav Simeonov</i>		
P78	From Sequencing Errors to Pipeline Design: Quality Metrics, Filtering Rationale and a GPU-Aware Reference Implementation for FASTQ Preprocessing <i>Dobromir Panchev, Veselin Georgiev, Katya Gabrovska, Stanislav Simeonov</i>		
SOFTWARE TECHNOLOGIES AND APPLICATIONS SYSTEMS			
P11	Coloured Petri Net Modelling and Validation of Concurrent Distributed Database Architectures for Electronic Health Records, with Quantum Fisher-Information-Based Performance Prediction <i>Sofoklis Christoforidis, Athanasios Thomopoulos, Eftathios Titopoulos, Eleni Kromitoglou, Milena Lazarova, Daniela Minkovska</i>		
P46	ESG Reporting Readiness in SAP-Centered ERP Environments: A Framework for Data Governance, Semantic Modeling and ML Analytics <i>Reneta Duhova, Milena Lazarova, Tasho Tashev, Petia Georgieva</i>		
P66	Context-Specific Multimodal Business Benchmarking: A Method for Company-Aligned AI Evaluation <i>Venko Andonov, Ivona Velkova</i>		
P83	From Power Electronics to Data Intelligence: Comparative Study of SEPIC and ĆUK Converters with Weka Analysis <i>Mirjana Kocaleva Vitanova, Elena Karamazova Gelova, Zoran Zlatev, Nikolay Hinov, Biljana Zlatanovska</i>		

18:30 – 19:15		WORKSHOP Sustainable Development of the “Heritage BG” Centre of Excellence
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Tuesday, 15 September 2026

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

08:30 – 10:45	ORAL SESSION 5 – Education, Human-Centered Computing, Green Energy and High Technology Management <i>Chairs: Prof. Todor Stoilov; Prof. Krasimira Stoilova</i>
EDUCATION 4.0	
P02	Two-Stage Evaluation of a RAG Assistant for Entrepreneurship Education: Expert and User Evidence across Five Functional Areas <i>Angel Marinov, Hristo Nenov, Ozgur Gungor, Raúl Montoliu, Furkan Alniak, Silvia Franch-Ventura, Mihai Ivanovici, Claudiu Bungeag, Linas Staršelskis, Dimitar Vasilev, Evgeni Mihaylov</i>
P03	From Stakeholder Needs to Institutional Deployment: Designing a Governed RAG Assistant for Entrepreneurship Education <i>Angel Marinov, Hristo Nenov, Ozgur Gungor, Raúl Montoliu, Furkan Alniak, Silvia Franch-Ventura, Mihai Ivanovici, Claudiu Bungeag, Linas Staršelskis, Dimitar Vasilev, Evgeni Mihaylov</i>
P82	Analysis of the Approach to the Development and Integration of Interdisciplinary STEM Centers under Bulgaria's National Recovery and Resilience Plan (NRRP) <i>Darina Marinova, Georgi Georgiev, Nikolay Hinov, Daniela Gotseva</i>
P56	Detecting Affective Markers in Students' Engineering Fairy Tales: An Embedding-Based Unsupervised Approach <i>Ralitza Raynova</i>
P64	Reversible Synthesis of a Three-Input Boolean Function Using Cascaded Two-Input MUX Structures Implemented Entirely with Toffoli Gates <i>Adriana Borodzhieva</i>
P70	Reversible Logic Gates as a Pedagogical Framework for Digital Circuit Design <i>Adriana Borodzhieva</i>
P77	Digitalization of Dual Education: Bridging Industry 4.0 Skills and Vocational Training in Europe <i>Maria Kazakova</i>
RENEWABLE AND GREEN ENERGY	
P04	Population-Based Evaluation of Direct and Pre-Boost Forward PV Microinverters <i>Angel Marinov, Kaloyan Solenkov</i>
HIGH TECHNOLOGY MANAGEMENT	
P39	AI-Based Evaluation of Intermodal Logistics Links in the Context of the European Green Deal <i>Kiril Anguelov, Kremena Tranakieva</i>
P40	Blockchain-Based Approaches for Provenance, Authenticity and Integrity of Digital Archival Documents <i>Kiril Anguelov, Bojko Mladenov</i>
P41	Trace-Based Evaluation of AI-Assisted Coordination in Virtual Software Development Teams <i>Kiril Anguelov, Ivo Hristov, Radoslav Kostev</i>
P49	Multi-Agent Systems as a Tool for Developing Intelligent Business Ecosystems <i>Radoslav Kostev</i>

Tuesday, 15 September 2026

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

11:00 – 12:30	ORAL SESSION 6 – Cyber Security and Cyber Protection, Human-Centered Computing, Telecommunications Engineering, Smart Cities <i>Chairs: Prof. Roumen Trifonov; Assoc. Prof. Galya Pavlova; Assoc. Prof. Valentin Hristov (Smart Cities)</i>
CYBER SECURITY AND CYBER PROTECTION	
P65	Transparent Case-Level Routing for Phishing Detection and Head-Label ATT&CK Mapping <i>Venka Andonov, Ivana Velkova</i>
P67	Electronic Documents as Evidence in Bulgarian Civil and Administrative Litigation <i>Ralitza Dimitrova</i>
HUMAN-CENTERED COMPUTING	
P28	Cognitive State-Aware Human-AI Interaction: A Conceptual Framework for Adaptive LLM-Based Assistance <i>Teodor Akov, Georgi Tsochev, Roumen Trifonov</i>
TELECOMMUNICATIONS ENGINEERING	
P09	Blind Noise-Level Estimation as a Hidden Variable in the Evaluation of Image Denoising Algorithms <i>Saso Koceski, Natasa Koceska, Zoran Zlatev, Nikolay Hinov</i>
SMART CITIES AND SMART SOCIETY	
P57	Research on the consumption of electrical energy for stairwell lighting <i>Aleksandar Hristov, Valentin Hristov, Roumen Trifonov</i>
P76	Reducing electricity consumption for stairwell lighting in neighborhoods with low-density residential development <i>Aleksandar Hristov, Valentin Hristov, Roumen Trifonov</i>
12:30 – 13:00	WORKSHOP Presentation of Research Projects

Tuesday, 15 September 2026

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

14:00 – 15:30		POSTER SESSIONS – Thematic Groups <i>Chairs: Prof. Georgi Popov; Prof. Daniela Minkovska</i>	
ARTIFICIAL INTELLIGENCE, ROBOTICS AND CONTROL			
P16	The Role of Artificial Intelligence in Managing the Energy Deficit in Cuba <i>Anna Penkova</i>		
P34	MVC-Based Multi-Agent Architecture with MCP Integration for Intelligent Administrative Chatbots in Educational Information Systems <i>Kalina Nikiforova-Ilieva, Tsvetozar Georgiev</i>		
P43	Design of Artificial Intelligence (AI) Module for Specialized Images Recognition and Classification <i>Milena Karova, Georgi Popov, Ivelin Ivanov</i>		
P48	The Evolution of Document Processing Pipelines: A Comprehensive Survey on Integrating Computer Vision and Large Language Models for Mixed-Content Recognition <i>Neven Nikolov</i>		
P75	AI-informed techno-economic optimization of battery energy storage systems via degradation forecasting: critical review and conceptual framework <i>Eleonora Ivanova, Dimitar Gerov</i>		
P83	NLP and Network Models for Bulgarian Historical Data <i>Eleonora Ivanova, Plamen Nakov</i>		
CYBER SECURITY AND CYBER PROTECTION			
P13	A Cybersecurity-Aware Operational Design Domain for Attack-Adaptive Degradation in Autonomous Vehicles <i>Zoran Zlatev, Yavor Tomov, Atakan Salimov, Adnan Redzheb, Denitsa Ivanova-Mutafchieva, Byulbyul Zyulyamova</i>		
P14	Uncertainty-Aware Capability Gating for Cyber-Resilient Degradation in Autonomous Vehicles <i>Zoran Zlatev, Yavor Tomov, Atakan Salimov, Adnan Redzheb, Denitsa Ivanova-Mutafchieva, Byulbyul Zyulyamova</i>		
P17	Analysis of Cyber Threats in Intelligent Traffic Management Systems: A Review <i>Plamen Stanchev, Nikolay Hinov, Silvia Ivanova</i>		
P19	A Layered Cybersecurity and Anomaly Detection Framework for Smart Street Lighting Infrastructure <i>Plamen Stanchev, Nikolay Hinov</i>		
P21	Spectral and Percolation-Based Analysis of Cyber Threat Propagation in Complex Networks <i>Tsvetelina Stefanova, Tsvetozar Georgiev</i>		

Tuesday, 15 September 2026

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

14:00 – 15:30		POSTER SESSIONS – Thematic Groups <i>Chairs: Prof. Georgi Popov; Prof. Daniela Minkovska</i>	
DATA STRUCTURES AND STORAGE, CLOUD AND BLOCKCHAIN TECHNOLOGIES			
P82	Integrated cultural heritage database for Bulgaria <i>Eleonora Ivanova, Plamen Nakov</i>		
SOFTWARE TECHNOLOGIES AND APPLICATIONS SYSTEMS			
P18	Quantum-Secured Medical Information Systems in Distributed Database Environments: A Simulation-Based Comparative Analysis <i>Sofoklis Christoforidis, Dimitrios Thomopoulos, Efstathios Titotoulos, Eleni Kromitoglou, Daniela Minkovska, Ognyan Nakov</i>		
P26	Heterogeneous software-in-loop (SIL) Environment for Deterministic Analysis of Impulsive Gene Regulatory Networks using ROCm Shared Memory <i>Militsa Gocheva, Stanislav Simeonov</i>		
P33	Parallel Simulation of Impulsive Gene Regulatory Networks Using MPI <i>Militsa Gocheva</i>		
P38	Characterizing Performance – Fidelity Trade-offs in Terminal-Based Symbolic Video Rendering <i>Iva Nikolova, Georgi Zapryanov, Victor Kostadinov</i>		
SOFTWARE ENGINEERING			
P08	A Sovereign, End-to-End Hardware-Hardened IoT Architecture Using Mutual TLS and Time-Series Data Management on Edge-to-Gateway Infrastructure <i>Neven Nikolov</i>		
P31	Industry 4.0 - Limitations of the Decision-Making Approaches in Industrial Processes <i>Joana Ladozova, Daniela Minkovska, Vesselin Gueorguiev</i>		
HIGH TECHNOLOGY MANAGEMENT			
P15	A Unified Bayesian Framework for Data Matching and Fault Detection in Diverse Systems <i>George Popov, Antoaneta Popova</i>		
P47	Influence of Trading Volume on Price Forecasting Using an Automated Tool <i>Kiril Koparanov</i>		

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)
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16:15 – 17:00	WORKSHOP Centre of Excellence “Universities for Science, Informatics and Technologies in the E-Society” (UNITe)
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The workshops will present current Centers of Excellence and research projects associated with the conference community

17:00	Official Conference Closing Ceremony <i>Chair: Prof. Nikolay Hinov</i>
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COMSCI 2026 – 14th International Scientific Conference COMPUTER SCIENCE

Conference website: <http://e-university.tu-sofia.bg/e-conf/?konf=252>

Accepted and presented papers will be processed in accordance with the conference publication policy