Third and Final Call for Papers

28th International Conference on System Theory, Control and Computing

ICSTCC 2024

(Joint Conference SINTES 28, SACCS 24, SIMSIS 28, CONTI 17)

October 10 - 12, 2024
Sinaia, ROMANIA

https://icstcc2024.ace.ucv.ro/

Organized by

Faculty of Automation, Computers and Electronics, University of Craiova

Faculty of Automation and Computer Science, Technical University of Cluj-Napoca

Faculty of Automatic Control and Computer Engineering, "Gheorghe Asachi" Technical University of Iași

Faculty of Automatic Control, Computers, Electrical and Electronics Engineering, "Dunărea de Jos" University of Galaţi

Faculty of Automation and Computers, Department of Automation and Applied Informatics and Department of Computer and Information Technology, Politehnica University of Timișoara

Technically co-sponsored by IEEE Control Systems Society

Peleș Castle, Sinaia

BACKGROUND

The *28th International Conference on System Theory, Control and Computing ICSTCC 2024* aims to provide a unique, multidisciplinary forum, for scientists of academia and industry to discuss the state of the art and the new trends in system theory, control and computer engineering, and to present recent research results and prospects for development in this rapidly evolving area.

ICSTCC 2024 conference joins four previous scientific meetings hosted by University of Craiova (SINTES - International Conference on System Theory and Control), "Gheorghe Asachi" Technical University of Iași (SACCS - International Symposium on Automatic Control and Computer Science), "Dunărea de Jos" University of Galaţi, (SIMSIS - International Symposium on Modelling, Simulation and Identification Systems), and Politehnica University of Timișoara (CONTI – International Conference on Technical Informatics).

As for the previous editions, ICSTCC 2024 will be technically co-sponsored by the **IEEE Control Systems Society** and the Conference Proceedings will be submitted to **IEEE Xplore Digital Library**. Moreover, the Proceedings of the 2013 and 2015-2022 editions are indexed in **Clarivate Analytics Web of Science**.

ICSTCC 2024 will feature several kinds of presentations including invited talks, contributed papers, special sessions and contributions from industry. The outcome of ICSTCC 2024 is hoped to be an inclusive event, a comprehensive view and a better understanding of such leading research areas: automation, control systems, robotics, computers, electronics and electrical engineering.

IMPORTANT DEADLINES

- **April 30, 2024:** Submission of proposals for invited sessions
- **May 13, 2024:** Submission of papers
- **July 8, 2024:** Notification of acceptance
- **July 31, 2024:** Final camera-ready manuscript and registration payment of at least one of the authors
- **October 10-12, 2024:** Conference

TOPICS

The conference topics include (but are not limited to):

Adaptive and robust control	Iterative learning control
Aerospace systems	Kalman filtering
Agents-based systems	Large-scale systems
Algebraic/geometric methods	Linear parameter-varying systems
Automata/Discrete-event systems	Linear systems
Automotive control	LMIs
Autonomous systems	Lyapunov methods
Biologically inspired systems	Machine learning
Boolean control networks and logic networks	Manufacturing systems and automation
Chemical process control	Markov processes
Cloud computing	Mean field games
Communication networks	Mechatronics
Communication systems	Model/Controller reduction
Compartmental and Positive systems	Network analysis and control
Computational methods	Neural networks
Computer graphics	Nonholonomic systems
Computer vision	Nonlinear output feedback
Constrained control	Nonlinear systems identification
Control applications	Numerical algorithms
Control over communications	Observers
Cooperative control	Optimal control and optimization
Cyber security	Petri nets
Data-driven control	PID control
Databases management systems	Power electronics/generation
Decentralized/distributed control	Predictive control
Delay systems	Process Control
Differential-algebraic systems	Quantized systems
Distributed systems	Quantum information and control
Embedded systems	Randomized algorithms
Energy/Power systems	Reinforcement learning
Engineering education	Robotics
Estimation/Filtering	Sampled-data control
Evolutionary electronics	Sensor networks
Extremum seeking	Signal processing
Fault detection/identification	Smart cities/houses/grids
Fault tolerant systems	Software methods and tools
Feedback linearization	Stability of linear systems
Fuzzy systems/logic	Stability of nonlinear/hybrid systems
Game theory	Statistical learning
Hierarchical/supervisory control	Stochastic systems
Human-Computer Interaction	Subspace methods
Hybrid/Switched systems	Traffic control
Identification	Ubiquitous and mobile computing
Information systems applications	Uncertain systems
Information theory and control	Variable-structure/sliding-mode control
Instrumentation	
Intelligent systems	Variational methods
Internet of Things	Web services and applications

KEYNOTE SPEAKERS

- Frank ALLGÖWER (Germany)
- Rainer LEUPERS (Germany)
- Kristin PETTERSEN (Norway)

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PAPER SUBMISSION

Full papers should be submitted using the PaperCept Conference Management System, by web upload (http://controls.papercept.net/conferences/scripts/start.pl). All materials must be written in English. Submitted papers will undergo a peer review process, coordinated by the International Program Committee.

Papers submitted for presentation should contain original research, not published or being considered for publication elsewhere. All submissions will be tested for similarity and overlap with prior published material using the iThenticate tool. The results will be made available to the IPC for evaluation. Possible violations of the IEEE ethics rules in publishing will be investigated by a dedicated committee.

The corresponding author of each paper will be notified of the result by e-mail. Accepted papers will be published in the conference proceedings, provided that at least one of the authors attended the conference and presented the paper. As part of the submission procedures, authors of accepted papers must send a signed Copyright Form for each paper. In the absence of such a form, the paper cannot be published.

The final form of the papers must meet IEEE pdf compliance requirements. Maximum six pages A4 in double column format are allowed. Authors may upload longer manuscripts up to a maximum of eight pages. However, each page in excess of six will incur a charge of 50 EUR.

INVITED SESSIONS

Proposals for Invited Sessions on the conference topics are welcome. People interested in organizing an invited session should submit their proposal at icstcc2024@ucv.ro, within April 21, 2024. The proposal should include the title of the session, a half-page description of its topic, together with a list of at least six papers (authors and tentative titles) that will be submitted to the session. The proposal evaluation will be communicated to the proponents within one week from submission. Invited sessions will be open: authors of papers whose topic matches the topic of an invited session may choose to submit the paper as part of the invited session (instead of as a regular paper) at the time of submission. Papers submitted for an invited session will be reviewed in the same manner as the regular papers.

CONFERENCE FEES

- Early registration (before July 31, 2024) fee: 450 EUR (400 EUR for IEEE Members);
- Late / on-site registration: 475 EUR (425 EUR - IEEE Members);
- Early student registration (by July 31, 2024): 275 EUR;
- Late / on-site student registration: 300 EUR;
- Accompanying person registration: 250 EUR;
- Late / on-site accompanying person: 275 EUR.

A registration fee covers: attendance at all sessions, conference materials, coffee breaks, lunches on the days of the conference, welcome reception and gala dinner. It also includes an electronic copy of the conference proceedings. Regular registrants are allowed to upload two papers. Student registrants are allowed to upload only one paper. Additional papers may be uploaded for 125 EUR each.

CONFERENCE VENUE

Sinaia is one of the most famous and oldest mountain tourist resorts in Romania, known as "The Carpathian Pearl". Situated in breath-taking mountain scenery, Sinaia is located at 120 km distance from Bucharest, on the Prahova Valley. Blending the astonishing beauty of nature with picturesque architecture, Sinaia is a former royal residence and bears a holy name, that of Mount Sinai. The 28th International Conference on System Theory, Control and Computing will be hosted by Palace Hotel, Sinaia located close to the centre of the resort (https://hotelpalacesinaia.ro/index.html). This stylish hotel is a great choice for pretentious tourists, for conferences and meetings. Popular nearby tourist attractions are Sinaia Monastery and Peleș Castle (one of the best-preserved royal palaces in Europe, which served as the summer residence of the first king of Romania, Carol I).

CONTACTS

Prof. Dan SELIȘTEANU and Prof. Dorin ȘENDRESCU

University of Craiova
Faculty of Automation, Computers and Electronics

A.I. Cuza no. 13, RO-200585, Craiova, Romania
E-mail: icstcc2024@ucv.ro, icstcc2024@ace.ucv.ro
Website: https://icstcc2024.ace.ucv.ro/
Phone/Fax: +40.251.438198