

Third Call for Papers

29th International Conference on System Theory, Control and Computing

ICSTCC 2025
(Joint Conference SINTES 29, SACCS 25, SIMSIS 29, CONTI 18)

October 9 - 11, 2025
Cluj-Napoca, ROMANIA

<https://icstcc2025.utcluj.ro>

Organized by

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 Galați

Faculty of Automation and Computing,
Politehnica University of Timișoara

Faculty of Automatic Control and Computer Science,
National University of Science and Technology
Politehnica București

Faculty of Automation, Computers and Electronics,
University of Craiova



Technically co-sponsored by IEEE Control Systems Society



BACKGROUND

The 29th *International Conference on System Theory, Control and Computing ICSTCC 2025* 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 2025 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 Galați, (SIMSIS - International Symposium on Modelling, Simulation and Identification Systems), and Politehnica University of Timișoara (CONTI – International Conference on Technical Informatics).

As well as the previous editions, ICSTCC 2025 will be technically co-sponsored by **IEEE Control Systems Society** and the Proceedings will be submitted to **IEEE Xplore Digital Library**. Moreover, **the Proceedings of the 2013 to 2022 and 2024 editions are indexed in Clarivate Analytics Web of Science**.

ICSTCC 2025 will feature several kinds of presentations including invited talks, contributed papers, special sessions and contributions from industry. The outcome of ICSTCC 2025 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.

EXTENDED DEADLINES

- **May 10, 2025:** Submission of proposals for invited sessions
- **May 20, 2025:** Submission of papers
- **July 10, 2025:** Notification of acceptance
- **August 4, 2025:** Final camera-ready manuscript and registration payment of at least one of the authors
- **October 9-11, 2025:** Conference.

TOPICS

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

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

KEYNOTE SPEAKERS

- Sophie TARBOURIECH (FR)
- Hyungbo SHIM (KOR)
- Răzvan PASCANU (UK)

COMMITTEES

INTERNATIONAL PROGRAM COMMITTEE

| | |
|----------------------------|--|
| General Chair: | Vlad MUREȘAN (RO) |
| Program Chair: | Maria Elena VALCHER (IT) |
| Program Co-chairs: | Zsofia LENDEK (RO) Elvira POPESCU (RO) |
| CSS Representative: | Sorin OLARU (FR) |
| Vice-chairs: | Vasile MANTA (RO) Marian BARBU (RO) Marius MARCU (RO) Ioan SACALĂ (RO) Dan SELIȘTEANU (RO) |

| | |
|------------------------------|-------------------------|
| Andrzej BARTOSZEWICZ (PL) | Paolo MERCORELLI (DE) |
| Ming CAO (NL) | Ion NECOARĂ (RO) |
| Maria Letizia CORRADINI (IT) | Marcin PAPRZYCKI (PL) |
| Ioan DUMITRACHE (RO) | Florin POP (RO) |
| Antonella FERRARA (IT) | Dumitru POPESCU (RO) |
| Giulia GIORDANO (IT) | Radu Emil PRECUP (RO) |
| Alexandra GRANCHAROVA (BG) | Sophie TARBOURIECH (FR) |
| Morten HOVD (NO) | Ramon VILANOVA (ES) |
| Laura MENINI (IT) | Antonio VISIOLI (IT) |

CONFERENCE EDITORIAL BOARD

| | |
|--------------------------------|--------------------------------|
| Costin BĂDICĂ (RO) | Mihaela-Hanako MATCOVSCHI (RO) |
| Gildas BESANCON (FR) | Nicola MIMMO (IT) |
| Andrei-Constantin BRAITOR (FR) | Jun MOON (KOR) |
| Simona CARAIMAN (RO) | Michele PAGONE (IT) |
| Ciprian-Bogdan CHIRILĂ (RO) | Octavian PĂSTRĂVANU (RO) |
| Radu DĂNESCU (RO) | Wiesław PAWŁOWSKI (PL) |
| Mihaela DÎNȘOREANU (RO) | Leonardo PELLEGRINA (IT) |
| Ana Maria DRĂGULINESCU (RO) | Daniele PROVERBIO (IT) |
| Eva DULF (RO) | Vicenç PUIG (ES) |
| Adrian FLOREA (RO) | Dan SELIȘTEANU (RO) |
| Marco FORGIONE (CH) | Olivier SENAME (FR) |
| Arpad GELLERT (RO) | Dorin SENDRESCU (RO) |
| Martin GUAY (CA) | Florin STOICAN (RO) |
| Raffaele IERVOLINO (IT) | Ștefan TRAUȘAN-MATU (RO) |
| Anca Daniela IONIȚĂ (RO) | Mihail VOICU (RO) |
| Malinka IVANOVA (BG) | Tong WU (CN) |
| Jérémie KREISS (FR) | Stelios XINOALOS (GR) |
| Rita KUO (USA) | Feng XU (CN) |

| | |
|------------------------------|---------------------------------|
| Mircea LAZĂR (NL) | Jianan YANG (CN) |
| Mirko LEOMANNI (IT) | Tulay YILDIRIM (TR) |
| Florin LEON (RO) | Bala-Constantin ZAMFIRESCU (RO) |
| Ciprian LUPU (RO) | Bin ZHU (CN) |
| Mohamed Adlene MAGHENEM (FR) | Lorenzo ZINO (IT) |
| Vasile MANTA (RO) | |

ORGANIZING COMMITTEE (RO)

| | |
|---------------------------|---|
| Chair: | Honoriu VĂLEAN |
| Finance Chair: | Mihail ABRUDEAN |
| Finance Co-Chairs: | Teodora SANISLAV Alexandru LAZAREC Iulia ȘTEFAN |
| Publicity Chair: | Valentin SITA |
| Liviu Cristian MICLEA | Dan GOȚA |
| Szilárd ENYEDI | Roxana MOTORGA |
| Ovidiu STAN | Constantin CĂRUNTU |
| Gheorghe SEBESTYEN | Ciprian-Bogdan CHIRILĂ |
| Alexandra FANCA | Mădălin MĂMULEANU. |
| Răzvan ȘOLEA | |
| Ciprian LUPU | |

PAPER SUBMISSION

Full papers should be submitted using the PaperCept Conference Management System, by web upload:

<http://controls.paperecept.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. The 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, through:

<https://controls.paperecept.net/conferences/scripts/start.pl>

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 the invited session will be reviewed in the same manner as the regular papers.

CONFERENCE FEES

- Early registration (before July 28, 2025) fee: 450 EUR (400 EUR for IEEE Members);
- Late / on-site registration: 475 EUR (425 EUR for IEEE Members);
- Early student registration (by July 28, 2025): 275 EUR;
- Late / on-site student registration: 300 EUR;
- Accompanying person registration: 250 EUR;
- Late / on-site accompanying person: 275 EUR.

The 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 may upload up to two papers, however for the second paper a supplementary fee of 125 EUR must be paid. Student registrants are allowed to upload only one paper.

CONFERENCE VENUE

ICSTCC 2025 will be held in Cluj-Napoca, the main city in Transylvania. With its rich historical and cultural heritage, Cluj-Napoca is an intellectual center with an active society, renowned universities, museums, theatres and eye-catching architecture.

Cluj is an important academic, industrial and commercial center. It is a dynamic, multicultural and diverse city with a population of around 350.000 inhabitants more than and 100.000 students.

Due to its location (equal distance between two East-European capitals, Bucharest and Budapest, Cluj-Napoca is easy to reach by different means of transport: plane, car, bus or train.

CONTACTS

Prof. Vlad MUREȘAN and Prof. Honoriu VĂLEAN
Technical University of Cluj-Napoca
Faculty of Automation and Computer Science
Address: 28 Memorandumului Street,
RO - 400114, Cluj-Napoca, Romania
Website: <https://icstcc2025.utcluj.ro/>
Support: <https://icstcc2025.utcluj.ro/sup>
Phone: +40 264 401 219.