

CALL FOR PAPERS

The **16th APCA International Conference on Automatic Control and Soft Computing (CONTROLO 2024)** is the biennial conference of the Portuguese Association on Automatic Control and will provide an excellent opportunity for presenting new research results and to discuss the latest developments in the field.

The working language of the conference is **English**.

Research topics of interest for submission include but are not limited to:

- Control Systems
- Automation and Robotics
- Soft-Computing with application to Control, Automation or Robotics

To enhance the technical program and focus on specific topics and areas, CONTROLO 2024 will include **Special Sessions**, in addition to regular ones.

Technical Co-Sponsors: IFAC | CEA | SBA | SPR | SPEE | ISA

IFAC is a co-sponsor of CONTROLO 2024 via the Technical Committees:

- TC 2.1. Control Design
- TC 2.3. Non-Linear Control Systems
- TC 4.3. Robotics
- TC 7.2. Marine Systems

Proceedings book publisher:

The proceedings of CONTROLO 2024 will be published in the Springer Lecture in the [Lecture Notes on Electrical Engineering](#), which are abstracted and indexed by the major databases (DBLP, EI Compendex, INSPEC, Japanese Science and Technology Agency (JST), SCImago, SCOPUS, WTI Frankfurt eG, zbMATH).

Keynote Speakers:

Ionela Prodan - University Grenoble Alpes, Grenoble INP, France
Lino Marques - Institute of Systems and Robotics, University of Coimbra, Portugal
Rafał Wisniewski - Aalborg University, Denmark

Approved special sessions

SS1. “Geometric and Analytic Methods for Nonlinear Data”

Knut Hüper (knut.hueper@uni-wuerzburg.de), Mathematisches Institut, Julius-Maximilians-Universität Würzburg, Germany | Fátima Silva Leite (fleite@mat.uc.pt), Institute of Systems and Robotics, University of Coimbra, Portugal

SS2. “Optimal Control: Theory, Methods and Applications”

Sofia Lopes (sofialopes@math.uminho.pt), University of Minho, Portugal | Nathalie Khalil (nathalie@fe.up.pt), SYSTEC-ARISE, University of Porto, Portugal

SS3. “Control in Airborne Wind Energy Systems”

Luis A. Roque (lar@isep.ipp.pt), ISEP, Polytechnic Institute of Porto, Portugal | Luis Tiago Paiva (ltpaiva@fe.up.pt), SYSTEC-ARISE, University of Porto, Portugal

SS4. “Control in the space of probabilities and its applications”

Dmitry Karamzin (dimitri@fe.up.pt), SYSTEC-ARISE, University of Porto, Portugal | Maxim Staritsyn (staritsyn@fe.up.pt), SYSTEC-ARISE, University of Porto, Portugal | Nikolay Pogodaev (nikolay.pogodaev@math.unipd.it), Dipartimento di Matematica “Tullio Levi-Civita”, Università degli studi Padova, Italy | Roman Chertovskikh (roman@fe.up.pt), SYSTEC-ARISE, University of Porto, Portugal

SS5. “Numerical aspects of optimization and optimal control”

Roman Chertovskikh (roman@fe.up.pt), SYSTEC-ARISE, University of Porto, Portugal | Sílvia Gama (smgama@fc.up.pt), CMUP, University of Porto, Portugal

SS6. “Hybrid Techniques Applied to Modelling and Control of Engineering Systems”

Matilde Santos (msantos@ucm.es), University Complutense of Madrid, Spain | Jesús Enrique Sierra-García (jesierra@ubu.es), Universidad de Burgos, Spain

SS7. “Control Applications in Robotics”

Paulo Costa (paco@fe.up.pt), University of Porto, Portugal | José Lima (jllima@ipb.pt), Polytechnic Institute of Bragança, Portugal | José Gonçalves (goncalves@ipb.pt), Polytechnic Institute of Bragança, Portugal

SS8. “Coding Theory”

Diego Napp (diego.napp@ua.es), University of Alicante, Spain
Raquel Pinto (raquel@ua.pt), University of Aveiro, Portugal

SS9. “Coding and Cryptography”

Diego Napp (diego.napp@ua.es), University of Alicante, Spain
Raquel Pinto (raquel@ua.pt), University of Aveiro, Portugal

SS10. “Systems and Control”

Teresa Mendonça (tmendo@fc.up.pt), FCUP, Portugal

SS11: “Systems and Behaviors”

Isabel Brás (ibras@ua.pt), University of Aveiro, Portugal
Paolo Vettori (pvettori@ua.pt), University of Aveiro, Portugal

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