

CALL FOR PAPERS - SPECIAL SESSION**“Realization theory & Co. in the nonlinear context”****for CODIT’23****July 3-6, 2023 ▪ Rome, Italy****Session Co-Chairs:**Dr. Eduardo Aranda-Bricaire, CINVESTAV, Mexico (email: earanda@cinvestav.mx)Prof. Claudia Califano, Sapienza Università di Roma, Italy (email: claudia.califano@uniroma1.it)Dr. Claude H. Moog, LS2N, University of Nantes, France (claudie.moog@ls2n.fr)**Session description:**

The realization problem is of fundamental importance in control theory and has gained a great deal of attention from the control community over the years. In the nonlinear context many aspects are not yet completely clarified and are currently under investigation.

The present session has the goal of showing the main pathologies that can arise in the nonlinear context and highlighting how the related problems could be addressed and solved. The goal is also to solicit a fruitful discussion on this topic and connected themes such as immersion, equivalence of nonlinear systems or implementation of feedback laws, causality problems, as well as highlight the recent new advances in the field.

The topics of interest include, but are not limited to:

- The realization problem for nonlinear systems
- Immersion and equivalence for nonlinear systems
- Implementation of feedback laws and causality problems that can arise

SUBMISSION

Papers must be submitted electronically for peer review through PaperCept by **January 27, 2023:**

<http://controls.papercept.net/conferences/scripts/start.pl>. In PaperCept, click on the **CoDIT 2023 link** “Submit a Contribution to CoDIT 2023” and follow the steps.

IMPORTANT: All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 6 pages (in the standard IEEE conference double column format).

DEADLINES

January 27, 2023: deadline for paper submission

April 15, 2023: notification of acceptance/reject

May 20, 2023: deadline for final paper and registration