

CALL FOR PAPERS - INVITED SESSION

“Consensus and Synchronization in Networked Systems”

for CODIT'23

July 03-06, 2023 ▪ Rome, Italy

Session Co-Chairs:

Prof. Stefano Battilotti, Sapienza Università di Roma, Italy (email: battilotti@diag.uniroma1.it)

Prof. Filippo Cacace, Campus Bio-Medico di Roma, Italy (email: f.cacace@ieee.org)

Dr. Massimiliano d'Angelo, Sapienza Università di Roma, Italy (email: mdangelo@diag.uniroma1.it)

Dr. Mattia Mattioni, Sapienza Università di Roma, Italy (email: mattioni@diag.uniroma1.it)

Dr. Lorenzo Ricciardi Celsi, Sapienza Università di Roma, Italy (email: ricciardicelsi@diag.uniroma1.it)

Session description:

This invited session aims at presenting recent trends in consensus and synchronization problems for networked systems both from the theoretical perspective and the application point of view.

Consensus and synchronization are pervasive in many applications of control engineering such as robotics, manufacturing systems, industrial processes, brain sciences, transportation systems and renewable energy systems, to mention a few.

In all these domains, multi-consensus, topology-induced containment, and many other problems on digraphs connecting homogeneous or heterogeneous agents characterized also by the presence of communications and/or actuator delays, faults and attacks naturally arise.

The goal is to highlight some multi-agent control strategies and applications that could help reaching new frontiers for future generation challenges.

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

- Consensus, multi-consensus, synchronization in networked systems.
- Control over networks.
- Applications to networked systems.

A special emphasis will be given to contributions addressing issues of privacy and resilience subjected to cyber-physical attacks, faults, and delays among communications.

SUBMISSION

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

<http://controls.papercapt.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