

# Security and Resiliency for Cyber-Physical Systems - foundations and recent advances

NH Conference Centre Leeuwenhorst, Noordwijkerhout, The Netherlands  
June 27-30, 2022

## Invitation

Riccardo M.G. Ferrari, André M.H. Teixeira, Michelle S. Chong, Carlos Rendon Murguia and Nima Monshizadeh have the pleasure to invite you to participate in the DISC Summer School "Security and Resiliency for Cyber-Physical Systems - foundations and recent advances", which is scheduled to take place from June 27-30, 2022, at NH Conference Centre Leeuwenhorst, Noordwijkerhout, The Netherlands.

The invitation is aimed at PhD and research students, staff members, researchers and engineers engaged in the systems and control area. Distinguished speakers will present a series of tutorial lectures.

## Secure Cyber Physical Systems

This summer school aims to provide an overview of the key control theoretic techniques employed for securing and increasing the resiliency of cyber-physical systems.

The main topics of this Summer School are:

- The design of secure control and estimation methods for control systems
- Encryption and watermarking for control systems
- Information theoretic approaches for privacy
- Security for Discrete-Event systems
- Security of industrial control systems from a computer science perspective

The class will be a mix of lectures and tutorials with hands-on implementation of state-of-the-art algorithms. Participants will have ample opportunity to discuss their own research with the speakers and amongst each other.

## Lecturers

The main program will consist of a number of international and national speakers. Keynote lectures include:

- **Christoforos Hadjicostis**, University of Cyprus, Cyprus
- **Henrik Sandberg**, KTH Royal Institute of Technology, Sweden
- **Moritz Schulze Darup**, Technical University Dortmund, Germany
- **Nils Tippenhauer**, CISPA Helmholtz Center for Information Security, Germany
- **André Teixeira**, Uppsala University, Sweden

Complemented by talks given by DISC lecturers:

- **Riccardo M.G. Ferrari**, TU Delft NL
- **Michelle S. Chong**, TU Eindhoven, NL
- **Carlos Rendon Murguia**, TU Eindhoven, NL

## Registration

The registration fee, which includes full board and lodging (based upon shared rooms), is

- 900,- Euro for DISC students/members (until May 9, 2022 - early bird) and 1.050,- Euro (after May 9, 2022)
- 1.100,- Euro for non-DISC members (until May 9, 2022 - early bird) and 1250,- Euro (after May 9, 2022)

For more information about the accommodation arrangements please refer to the website: [DISC Summer School 2022](#)

The school is limited to 50 participants based on a first-come first-serve policy. The registration deadline is May 23, 2022 (Early bird deadline May 9, 2022).

You can register at the following website: <http://disc-courseplatform.nl>. Non-DISC members can also send an email to: [secr@disc.tudelft.nl](mailto:secr@disc.tudelft.nl) (Please mention your full name and university affiliation including address). For further information, contact the DISC administrative office: Renate Kragtwijk ([r.c.m.kragtwijk@tudelft.nl](mailto:r.c.m.kragtwijk@tudelft.nl)) or the organizers: Riccardo M.G. Ferrari ([r.ferrari@tudelft.nl](mailto:r.ferrari@tudelft.nl)), André M.H. Teixeira ([andre.teixeira@it.uu.se](mailto:andre.teixeira@it.uu.se)), Michelle S. Chong ([m.s.t.chong@tue.nl](mailto:m.s.t.chong@tue.nl)), Carlos Rendon Murguia ([c.g.murguia@tue.nl](mailto:c.g.murguia@tue.nl)), Nima Monshizadeh ([n.monshizadeh@rug.nl](mailto:n.monshizadeh@rug.nl)).