

Program DISC Summer School

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

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

Monday June 27, 2022: Overview on Security and Resiliency

10:30	11:00	registration, welcome coffee	
11:00	11:10	Opening of the school	Schools organizers
11:10	11:45	Opening lecture: an overarching view on Security and Resiliency for CPS	Henrik Sandberg
11:45	12:45	Secure control	André Teixeira
12:45	14:00	<i>lunch</i>	
14:00	15:00	Secure estimation	Michelle Chong
15:00	16:30	Tutorial session	A. Teixeira and M. Chong
16:30	16:45	<i>break</i>	
16:45	17:30	Posters session 1	Participants
17:30	17:45	<i>break</i>	
17:45	18:30	Posters session 2	Participants
18:30	20:30	<i>dinner</i>	

Tuesday June 28, 2022: Coding and Encryption

09:00	10:00	Coding approaches: watermarking	Riccardo Ferrari
10:00	10:15	<i>break</i>	
10:15	11:15	Coding approaches: introduction to encryption	Moritz Schulze Darup
11:15	12:45	Coding approaches: encrypted control	Moritz Schulze Darup
12:30	13:45	<i>lunch</i>	
13:45	15:45	Tutorial session	Moritz Schulze Darup
15:45	16:45	Information theoretic approaches	Carlos Murguia Rendon
16:45	17:00	<i>break</i>	
17:00	18:30	Panel Discussion	ALL
18:30	20:30	<i>dinner</i>	

Wednesday June 29, 2022: Information theoretic approaches and recent results

09:00	10:30	Novel approaches to privacy	Henrik Sandberg
10:30	10:45	<i>break</i>	
10:45	12:15	Recent developments in safety of CPS	Henrik Sandberg
12:15	13:30	<i>lunch</i>	
13:30	14:45	Discrete event systems: Resilient State Estimation and Event Inference	Christoforos Hadjicostis
14:45	16:15	Discrete event systems: Notions of Opacity for Privacy and Security	Christoforos Hadjicostis
16:15	16:30	<i>break</i>	
16:30	18:30	Tutorial	Christoforos Hadjicostis
18:30	20:30	<i>Dinner - BBQ</i>	

Thursday June 30, 2022: Discrete Event Systems and the Computer Science Perspective

08:45	10:00	Computer Science Perspective on ICS security	Nils Tippenhauer
10:00	11:15	Computer Science Perspective on ICS security	Nils Tippenhauer
11:15	11:30	<i>break</i>	
11:30	12:30	Panel discussion	ALL
12:30	13:45	<i>lunch</i>	