

CRITIS Preliminary Program

Sunday October 8-th

16:00 – 20:00 Registration and **welcome cocktail** -
IMT - Chioistro San Francesco (San Francesco Cloister)

Monday October 9-th

9:00 -10:00 Registration & **welcome coffee**
IMT - Chioistro San Francesco

10:00 – 10:30 Welcome by the Organizers & **Conference Information**

10:30 **Institutional talk**

Session I “Modelling & Simulations”

11:30 **Keynote: Igor van Gemert**

12:10 Contributed 17 Michael Rausch et al. - University of Illinois at Urbana-Champaign
“Automatically Generating Security Models from System Models to Aid in the Evaluation of AMI
Deployment Options”

12:30 Contributed 40 Seungoh Choi - South Korea – “One step more : Automatic ICS Protocol
Field Analysis”

12:50 Lunch Break (2h)

Session II “Cyber-Physical Systems & Industry 4.0”

14:50 **Keynote (TBD)**

15:30 Juan E. Rubio et al. – Univ. of Malaga “Analysis of cybersecurity threats in Industry 4.0: the
case of intrusion detection”

15:50 Mohamad Gharib et al. – Univ. of Florence “Dealing with Functional Safety Requirements
for Automotive Systems: A Cyber-Physical-Social Approach”

16:10 Pol Van Aubel - Radboud University “Side-channel based intrusion detection for
industrial control systems”

16:30 Coffee Break (20’)

Session III “Poster lightening talks”

16:50 – 18:30 **5’ to Each poster**

Poster Session with **Light Dinner**

19:00 – 21:00 IMT - Chioistro San Francesco

Tuesday October 10-th morning

Session IV “Cyber Security”

9:00 Communications & Information

9:20 **Keynote: Roberto Baldoni**

10:00 Natalia Reka Ivanko et al. *“Towards Blockchain-Based Collaborative Intrusion Detection Systems”*

10:20 Stefano Panzieri et al. – Univ Rome III *“Faulty or Malicious Anchor Detection Criteria for Distance-Based Localization”*

10:40 Coffee Break (30’)

Session V “Electric System and Special Applications”

11:10 Zejun Yang and Jose Marti *“Resilience of Electrical Distribution Systems with Critical Load Prioritization”*

11:30 Alberto Tofani et al. – ENEA *“Operational Resilience metrics for a complex electrical networks”*

11:50 Steffen O. P. Blume and Giovanni Sansavini - ETZ *“The influence of load characteristics on early warning signs in power systems”*

12:10 Erich Rome et al. *“Towards a Common Vocabulary for Crisis Management Scenarios”*

12:30 Stefano Starita, Annunziata Esposito Amideo and Maria Paola Scaparra *“Assessing Urban Rail Transit Systems Vulnerability: Metrics vs. Interdiction Models”*

12:50 Lunch Break (1h 40’)

Tuesday October 10-th afternoon

Session VI “Projects Cross Dissemination I”

- 14:30 **ESReDA** "European Safety, Reliability & Data Association"
Presenter Luís Andrade Ferreira, University of Porto
- 14:45 **EU-CIRCLE** "A panEuropean framework for strengthening Critical Infrastructure resilience to climate change"
Presenter Dr Athanasios Sfetsos, Thanasis Demokritos
- 15:00 **HyRiM** "Hybrid Risk Management for Utiliti Providers"
Presenter Stefan Schauer - AIT Austrian Institute of Technology GmbH
- 15:15 **MITIGATE** "Protecting Maritime Supply Chain IT Infrastructure"
Presenter TBD
- 15:30 **RESOLUTE** "Operationalization appLied to Urban Transport Environment"
Presenter Emanuele Bellini Univ. Firenze
- 15:45 **RESIN** "Climate Resilient Cities and Infrastructures"
Presenter Erich Rome Fraunhofer

16:00 Coffee Break (15')

Session VII “Projects Cross Dissemination II”

- 16:15 **SEGRID** "Secures the Smartgrid of Tomorrow"
Presenter Frank Franssen TNO
- 16:30 **ROMA** "Resilience enhancement of a Metropolitan Area"
Presenter Vittorio Rosato ENEA
- 16:45 **IMPROVER** "Improved risk evaluation and implementation of resilience concepts to Critical Infrastructure"
Presenter TBD
- 17:00 **ERNICIP** "European Reference Network for Critical Infrastructure Protection"
Presenter Marianthi Theocharidou, European Commission, Joint Research Centre
- 17:15 **SecureWater** "Improved SECure and RESilient cyber physical systems for scada in **WATER** systems enhanced by comprehensive analysis capabilities" & **HANSEL** "Health Automation SystEms Laboratory Health Automation SystEms Laboratory"
Presenter Gabriele Oliva, NITEL & University Campus Bio-Medico of Rome
- 17:30 **ATENA** "Advanced tool to assess and mitigate the criticality of ICT components and their dependencies over Critical Infrastructures"
Presenter Stefano Panzieri, Dip di Ingegneria, Università degli Studi ROMA TRE
- 17:45 **ZONeSEC** "Towards an EU framework for the security of Widezones"
Presenter Dimitris Petrantonakis, EXODUS S.A

19:00 Concert Puccini-Verdi (reserve your ticket at the Registration Desk)

20:00 Social Dinner (reserve your ticket at the Registration Desk)

Wednesday October 11-th

9:00 Keynote: José Javier Larrañeta

Session VIII “Young Critis Award”

9:40 Anna Bozza et al. – Univ Federico II – “*Role of urban interactions and damage in seismic resilience of historical centers*”

10:00 James Wright et al. - Royal Holloway Information Security Group “*De-Synchronisation Attack Modelling in Real-Time Protocols Using Queue Networks: Attacking the ISO/IEC 61850 Substation Automation Protocol*”

10:20 Carlo Giudicianni et al. – Univ. degli Studi della Campania “Luigi Vanvitelli” “*DMA optimal layout for protection of water distribution networks from malicious attack*”

10:40 Coffee Break (30’)

Session IX “Transports & Human Activities”

11:10 Georgia Lykou, George Iakovakis, George Chronis and Dimitris Gritzalis “*Analysis and Classification of Adaptation Tools for Transport Sector Adaptation Planning*”

11:30 Laura Petersen et al. “*Public tolerance levels of transportation resilience: a focus on the Oresund region within the IMPROVER Project*”

11:50 Antonio De Nicola et al. “*A Gamified Approach to Participatory Modelling of Water Systems Risks*”

12:10 Chih-Yuan Lin et al. - Linköping Universitet - “*Timing-based Anomaly Detection in SCADA Networks*”

12:30 Vincenzo Fioriti et al. – ENEA “*Motion magnification for urban buildings*”

12:50 Aljoscha Lautenbach, Magnus Almgren and Tomas Olovsson “*What the Stack? On Memory Exploitation and Protection in Resource Constrained Automotive Systems*”

13:10 Lunch Break (2h 10’)

Session X “Awards – Discussion - Closing Remarks”

15:00 Young Critis Award

15:30 Critis Future Round table (Members of the Critis Board)

16:00 CRITIS2018 Presentation

16:20 Proceedings information -Thanksgiving and Closing Remarks

Thursday October 12-th

Complex Water Infrastructures Workshop

Program: TBD & extended

Opening Introduction: **Lorenzo Bardelli** - Italian regulation authority for electricity, gas and water systems

Keynote Speakers:

- **Armando Di Nardo**, Universita' degli studi della Campania "Luigi Vanvitelli"
- **Natan Zuta**, IOSIGHT, Israel
- **Alfonso Damiano**, University of Cagliari
- **Giuseppe Sardu**, Acque S.p.A (TBC)
- **Alessandro Mazzei** - Tuscan water regulation authority (TBC)
- **Emanuele Perugini**, Trenta science Communications

Friday October 13-th

Complex Energy Infrastructures Workshop

9:15-9:30 *Angelo Facchini* - Welcome and introduction

9:30-10:00 **Riccardo Basosi**, University of Siena

10:00-10:30 **Alessandro Rubino**, OFGEM, UK

10:30-11:00 Refreshment Break

11:30-12:00 **Umberto Perna**, Society of Petroleum Engineers

12:00-12:30 **Renata Mele**, Enel Foundation (TBC)

12:30-13:00 **Alfonso Damiano**, University of Cagliari

12:30-12:45 *Antonio Scala* - Closing remarks