

76th IFIP WG 10.4 Meeting
Hood River – Oregon, USA
June 27— July 1, 2019

Business Meeting



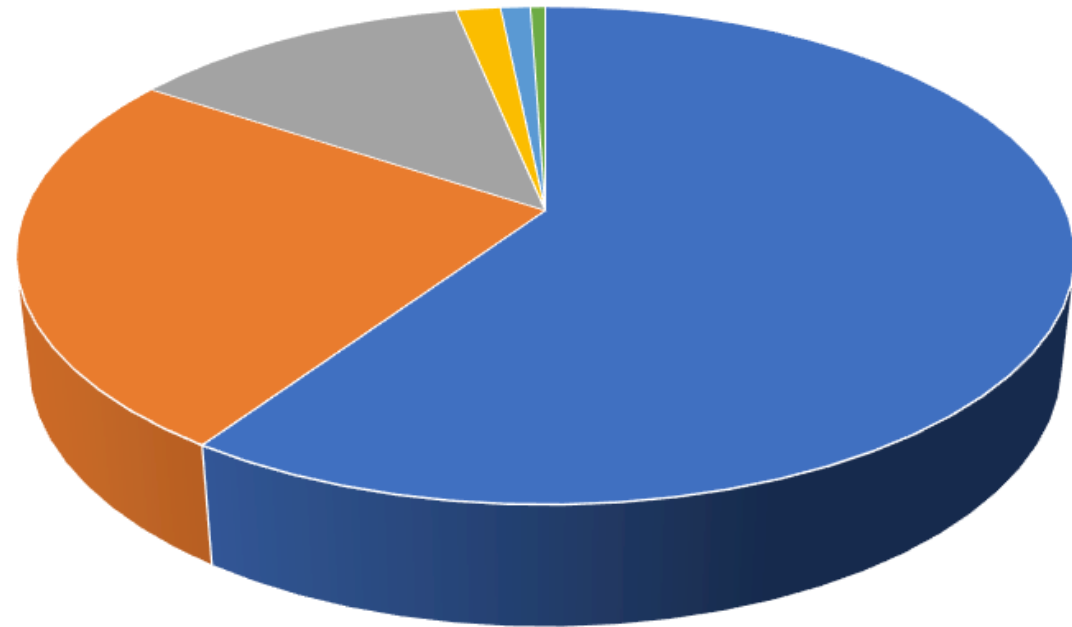
DSN 2019 STATISTICS

252 Papers submitted

54 Papers accepted

21% Acceptance ratio

193 Registered participants



■ North America 110

■ Europe 46

■ Asia 23

■ Middle East 3

■ Oceania 2

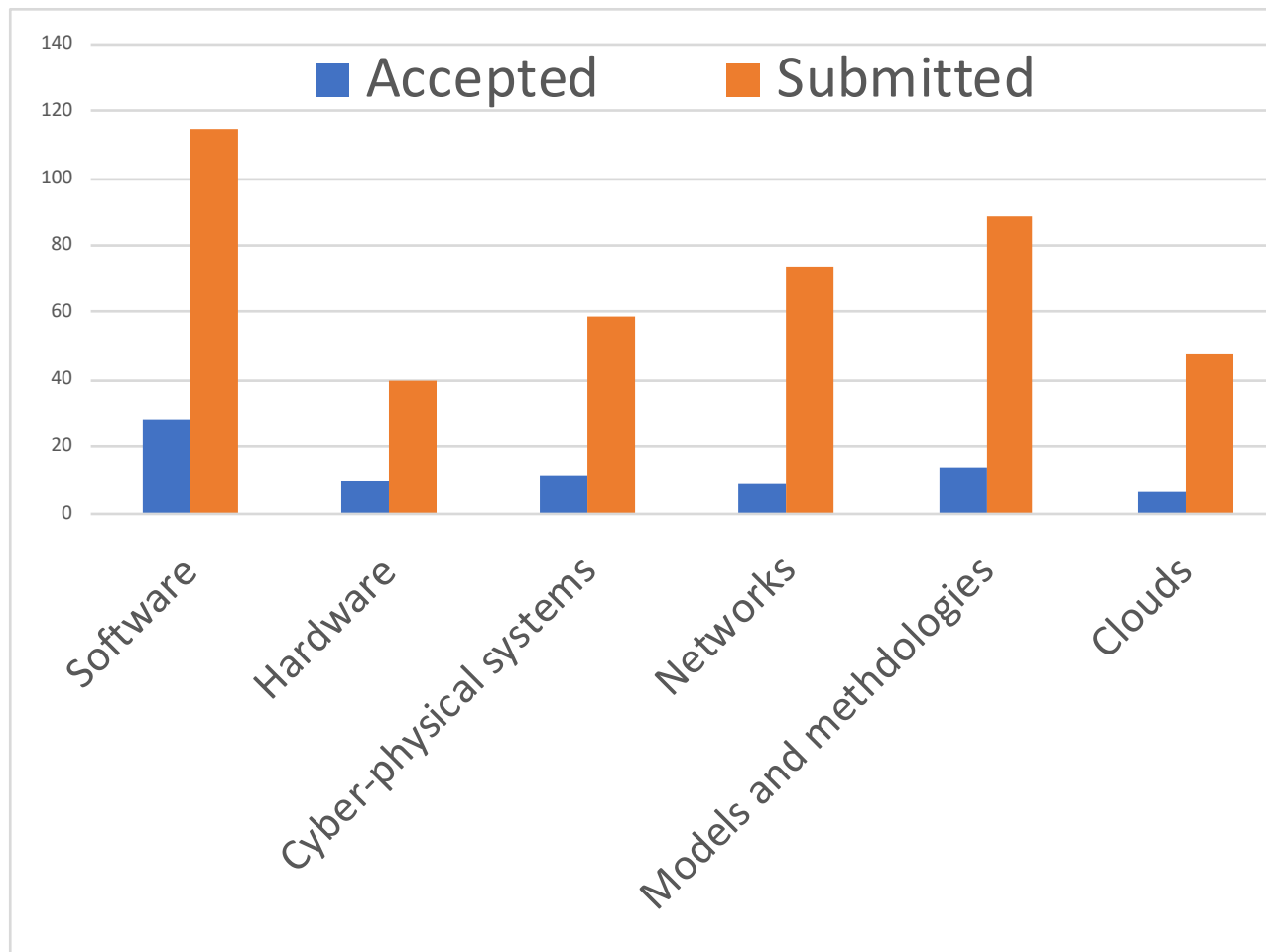
■ South America 1

38 Student travel grants

DSN PROGRAM AT A GLANCE

- Workshops
 - Workshop on Data-Centric Dependability and Security (DCDS)
 - 2nd Workshop on Dependable and Secure Machine Learning (DSML)
 - 5th International Workshop on Safety and Security of Intelligent Vehicles (SSIV)
- Research Track – 17 sessions, 54 papers
- Industry Track – 3 sessions, 7 papers
- Best of SELSE – 1 session, 3 papers
- Fast Abstracts and Student Forum – 2 sessions, 15 papers

SUBMITTED/ACCEPTED PAPERS PER TOPIC



KEYNOTES

Research Track:

Establishing and Maintaining Root of Trust on Commodity Computer Systems

Virgil Gligor, Carnegie Mellon University, Pittsburgh, PA, USA

Automated Driving and its Grand Dependability Challenges

Wilfried Steiner, Corporate Scientist at TTTech Computertechnik AG – Austria

Industry Track: Radiation Effects in Modern Si Based Semiconductors

Norbert Seifert, Physicist, Reliability Engineer, Intel Corporation, OR, USA

BoF: Autonomous Vehicle Safety: What Lessons Can We Learn from Aviation?

Jaynarayan Lala, Raytheon Company, San Diego, CA, USA

DSN 2019 AWARDS

The William C. Carter PhD Dissertation Award in Dependability

- **João Catarino de Sousa, University of Lisboa**, *Byzantine state machine replication for the masses*

Best Paper Award

- **M. Patel, J. Kim, H. Hassan, and Onur Multu**, *Understanding and modeling on-die error correction in modern DRAM: An experimental study using real devices*

Jean-Claude Laprie Award

- **Y. Huang, C. Kintala, N. Kolettis, and N. D. Fulton**, *Software rejuvenation: analysis, module and applications*, FTCS-25 (1995)

Test-of-Time Awards

- **Kevin S. Killourhy and Roy Maxion**, *Comparing anomaly-detection algorithms for keystroke dynamics*, DSN 2009
- **Adam Oliner and Jon Stearley**, *What supercomputers say: a study of five system logs*, DSN 2007

77th Meeting of the IFIP 10.4 WG on Dependable Computing and Fault Tolerance

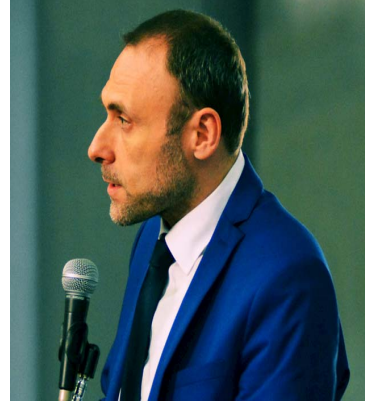


Reggio Calabria, Italy, 29-31 January 2020

Organizers



Andrea Bondavalli
University of Florence



Francesco Buccafurri
University Mediterranea
of Reggio Calabria

Local Arrangements

Francesco Buccafurri
Roberto Nardone

Venue

Grand Hotel Excelsior
Via Vittorio Veneto, 66,
89123 Reggio Calabria Italy
Web: www.grandhotelexcelsiorrc.it



Room Prices - bed and breakfast:
90 Euros/night single usage
add 20-25 Euros for second person



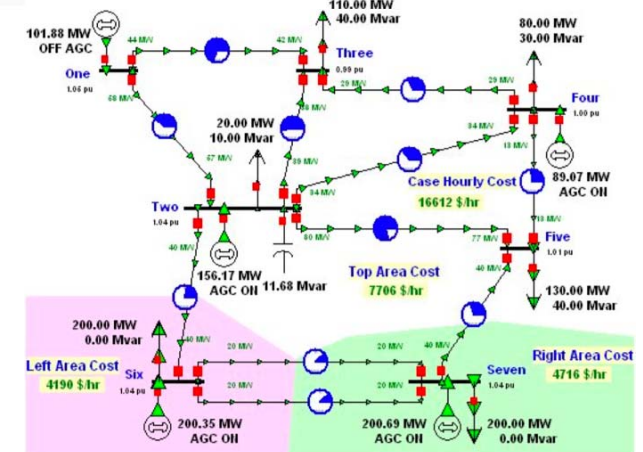
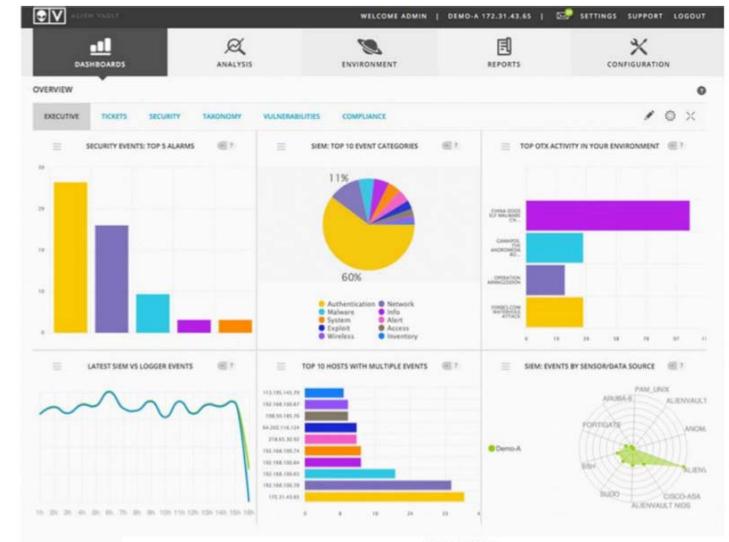
Travel

Three options when traveling by plane:

- fly to Reggio Calabria directly (airport very close to the city)
- fly to Lamezia Terme and take either the train (~2h) or shuttle bus (~1,5h) to Reggio Calabria or rent a car
- fly to Naples and then take the train (~4,5h) to Reggio Calabria
- <https://www.youtube.com/watch?v=PpTRg0r4fYY>
- https://www.youtube.com/watch?v=i_qeCdq-64A

IFIP Workshop – Winter 2020

- Co-Chairs:
 - Saman Zonouz, Ilir Gashi
- Tentative topic:
 - Security-Oriented Situational Awareness
- Dates/Sessions:
 - Jan 29-30th – 5 sessions (10 talks)
- Potential speaker expertise
 - Use of SIEMs in SOC (security operation center)
 - Two speakers from CPS domains
 - Incorporation of prediction capabilities in SIEMs
 - For proactive risk management and resilience
 - Challenges in decision-making using SIEMs
 - Data visualization, human factor issues,
 - Integration of cyber data (enterprise network) and SCADA data (e.g., sensor measurements)



Please let us know if you know someone with relevant expertise we should invite.

Tentative agenda

- | | |
|-------------------|---|
| Tuesday Jan 28: | Welcome reception at around 19:00 |
| Wednesday Jan 29: | Workshop day one |
| Thursday Jan: | Workshop day two – excursion
banquet |
| Friday Jan 31: | Research reports; meeting ends
after lunch |

Registration fees

Estimations:

Around 400 EUR Regular

Around 300 EUR Emeritus

Around 180 EUR Accompanying

Regular and emeriti:

Welcome reception;

Meeting room, water, coffee breaks, lunch for 3 days;

Excursion and meeting banquet.

Accompanying:

Welcome reception;

Excursion and meeting banquet.



The excursion will take the participants to a guided visit of the city and to the Museum hosting the 'Bronzi di Riace'.

78th Meeting of the IFIP 10.4 WG on Dependable Computing and Fault Tolerance Valencia 2020 (June 25-28)

Juan-Carlos Ruiz & Pedro Gil

jcruizg@disca.upv.es & pgil@disca.upv.es

Location 1: Parador del Saler

- 4-Star Parador (200-250€/day but we must negotiate the price)
- Very good location
 - Only 10 km far from Valencia
 - Next to the Mediterranean Sea, the Albufera Natural Park and the “El Saler” golf course
- Spa & Wellness Facilities
- Meeting facilities
- Further information: <https://www.parador.es/en/paradores/parador-de-el-saler>

Location 1: Parador del Saler



Location 2: Hotel Balneario Las arenas

- 5-Star Hotel (250€-300€/day but we must negotiate the price)
- Very good location
 - In Valencia (you can remain there during the conference if you want)
 - Next to the main city attractions and at the beach
 - Many cheaper alternative accommodation alternatives nearby
- Spa & Wellness Facilities
- Meeting facilities
- Further information: <https://www.hotelvalencialasarenas.com>

Location 2: Hotel Balneario Las arenas



Excursion: Albufera Natural Park

- <https://www.visitvalencia.com/en/what-to-see-valencia/albufera-natural-park>



Banquet: Dinner in the *El Palmar*

- Finish the excursion on one of the restaurants located in la Albufera



Workshop Topics

- **Distributed computing, parallel computing, real-time systems, certification of dependable systems, specification methods, design diversity, specification and validation of hard dependability requirements, methodologies for experiments, VLSI testing and fault tolerance, hardware-and-software testing and validation, fault tolerance in new architectures, communication networks, algorithms for distributed agreement, cars and computers, accidental vs. intentional faults, robotics and dependability, limits in dependability, avionics and dependability, dependability issues in medical computing, security and dependability, tools for dependable system design and evaluation, railway safety, safety cases, dependability in automotive electronics, computer systems benchmarking with applications to dependability, time and dependability, dependability, survivability, and integrity in e-commerce transactions and infrastructure, dependability benchmarking, utilization of formal methods in dependable systems, challenges and directions for dependable computing, depend ability and survivability, middleware for adaptability and dependability, measuring assurance in cyberspace + hardware design and dependability, open source and dependability, human computer interaction and dependability, autonomic web computing, grid computing and dependability, nomadic computing and dependability, infrastructure security and operational challenges of service provider networks, critical infrastructure protection, achieving and assessing safety, cps dependability, dependability in cloud systems, security assessment: metrics and methods, electrical smart grids sec & dep, science of cyber security, Autonomous and Cooperative Intelligent Vehicles, Systems Dependability in the Internet of Things (IoT), Smart Factories: Challenges for Depend. and Sec. Computing, Dependable News: Detecting and Countering Deception, Emerging Challenges for Resilience of Critical Cloud based Operations: When Privacy meets Availability, Technological and societal challenges to Blockchain dependability and security, Assured Autonomy, DSN future**

Need Ideas about the Technical Program

- Idea 1:

- Idea 2:

- Idea 3:

(my suggestions: Dependability of AI and ML)