67th IFIP WG 10.4 Meeting
Tortworth, Bristol, UK
22-26 January, 2015

67th IFIP WG 10.4 Meeting
Tortworth, Bristol, UK
22-26 January, 2015

Business Meeting

Business Meeting Agenda

- Upcoming events: DSNs and other sponsored events …

- Awards

- Future WG Meetings AND workshops

- Workshop theme ideas

- Members only portion

Upcoming Events

IEEE/IFIP International Conference on Dependable Systems and Networks

- ## Rio de Janeiro, Brazil (2015)
  - General co-Chairs: Eliane Martins, Regina Moraes (State Univ of Campinas, Brazil)
  - Program co-Chairs: Yair Amir (Johns Hopkins Univ., US), Johan Karlsson (Chalmers Univ., Sweden)

- ## Toulouse, France (2016)
  - General co-Chairs: Karama Kanoun, Mohamed Kaaniche (LAAS-CNRS, France)
  - Program co-Chairs: Cristina Nita-Rotaru (Purdue Univ., US), Domenico Cotroneo (U. Naples Federico II, IT)

- ## Denver, CO, US (2017)
  - General Chair: Shivakant Misra (University of Colorado, Boulder, US)
  - Program co-Chairs: TBD

DSN 2015: Rio de Janeiro, Brazil

- Dates: June 22-25, 2014
- Location:
  - Rio Othon Palace Hotel
  - in Copacabana, Rio de Janeiro
- Cost:
  - Hotel room rate: ~ $180/night
  - Several cheaper hotels around
  - Trying to maintain registration fees cost average

Access

- International Airport Galeão / Antonio Carlos Jobim:
  - Flights to/from more than 80 countries
  - About 520 flights per day
  - Transportation to/from airport: air conditioned bus, taxi, shuttle bus

- Domestic Airport Santos Dumont

  - Located downtown
  - 10 minutes from main hotels
  - About 273 flights per day

- Airport capacity and links to the city are being improved for 2014 and 2016
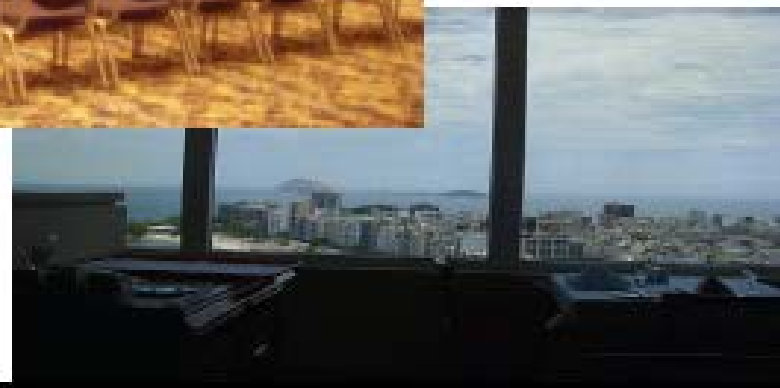
The Rio Othon Palace

Rio Othon Palace ★★★★★
👍

Bom, 7.5 💬
Pontuação de 1459 comentários

Avenida Atlântica, 3264 - Rio de Janeiro (Rio de Janeiro)

A partir de **US$ 175.18**

The 45th Annual IEEE/IFIP International Conference on Dependable Systems and Networks

Rio de Janeiro - Brazil (June 22-25, 2015)

UNICAMP   FACULDADE DE TECNOLOGIA   INSTITUTO DE COMPUTAÇÃO   RIO OTHON PALACE

Lapa

See
http://dsn.org

Submission to Workshops - March 8th

Workshop Proposals Selected (4)

1. DISN - Dependability Issues in SDN and NFV
2. MB4CP - First International Workshop on Model Based Design for Cyber-Physical Systems
3. SSIV - 1st International Workshop on Safety and Security of Intelligent Vehicles
4. RADIANCE - Recent Advances in the DependabIlity AssessmeNt of Complex systEms

IEEE/IFIP International Conference on Dependable Systems and Networks

- **<u>Toulouse, France (2016)</u>**
  - ◆ **General co-Chairs: Karama Kanoun, Mohamed Kaaniche (LAAS-CNRS, France)**
  - ◆ **Program co-Chairs: Cristina Nita-Rotaru (Purdue Univ., US), Domenico Cotroneo (U. Naples Federico II, IT)**

Award Updates

Award Updates

- **Carter Award in Dependable Computing**
  - ◆ **Scope: An outstanding paper based on a graduate dissertation.**
  - ◆ **Committee**: DSN Steering Committee
  - ◆ **Selection:**
    - ☞ Performed after PC meeting
- **URL: www.dsn.org**

Award Updates

- **DSN Best paper award**
  - ◆ **Scope: Best paper accepted and presented at DSN.**
  - ◆ **Committee: joint decision of: PC -> SC -> DSN audience**
  - ◆ **Selection:**
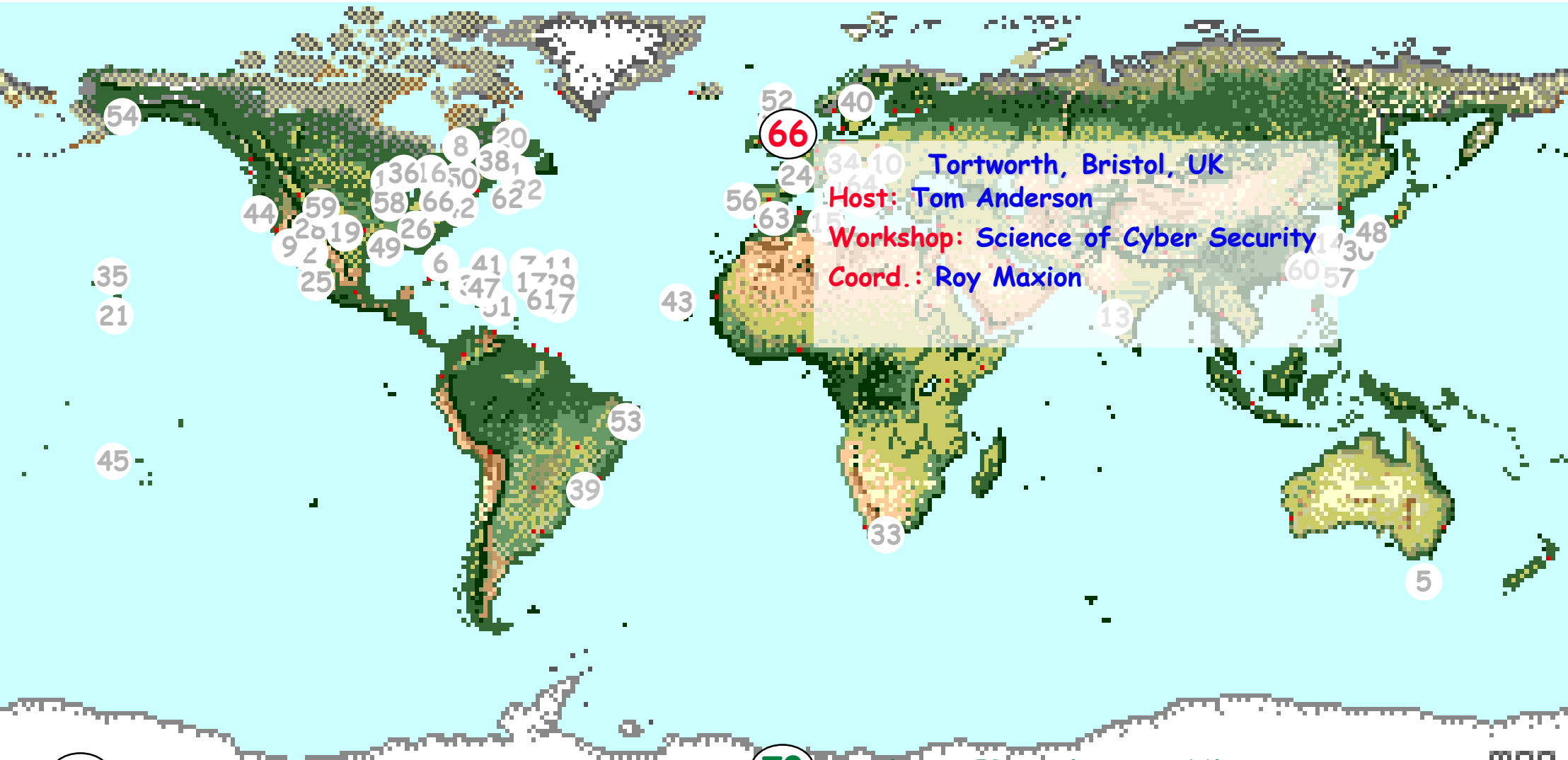   - ☞ Starts during PC meeting, ends during DSN
- **URL: www.dsn.org**

Award Updates

- **Jean-Claude Laprie Award in Dependable Computing (2015)**
  - ◆ **Scope: Outstanding paper(s) have significantly influenced the theory and/or practice of dependable computing.**
  - ◆ **Committee:** appointed by IFIP WG10.4
    - Brian Randell (Chair, U. Newcastle)
    - Andrea Bondavalli (U. Firenze, IT)
    - Hermann Kopetz (T.U. Vienna, AT)
    - Bev Littlewood (City University, UK)
    - Bob Yeh (Boeing, US)
  - ◆ **Selection:**
    - ☞ ongoing

- **URL: http://www.dependability.org/wg10.4/laprie-award.html**

- **Winner(s):**
  - ◆ **TBD**

Award Updates

- **IEEE Innovation in Societal Infrastructure Award to Hirokazu (Hiro) Ihara (2015),** "For pioneering the concept of dependable autonomous decentralized systems and contributing to its practical application in early transport control systems."

- (co-recipient, along with Takemochi Ishii and Atsunobu Ichikawa)

- To be delivered at DSN 2015!

Future Working Group Meetings

66 Tortworth, Bristol, UK
Host: Tom Anderson
Workshop: Science of Cyber Security
Coord.: Roy Maxion

68 Búzios, BR — w/DSN (summer 15)

69 ??, ?? — (winter 16)

70 Toulouse, FR — (summer 16)

71 ??, NZ — (winter 17)

68th Meeting (summer 2015)

PROPOSAL APPROVED!

Location: Armação de Búzios, RJ - Brasil

Host: Regina Moraes e Eliane Martins

Dates: after DSN 15, June 25th - 28th 2015

- **Hotels:** Atlantico Búzio Hotel

- **Costs:** ~ $750-700 reg. including 3night hotel, banquet, excursion AND Bus transportation from DSN to hotel and back to Rio / International Airport

- **Hotel Includes:**
  - Breakfast and all meals
  - Swimming pool, wellness and fitness facilities

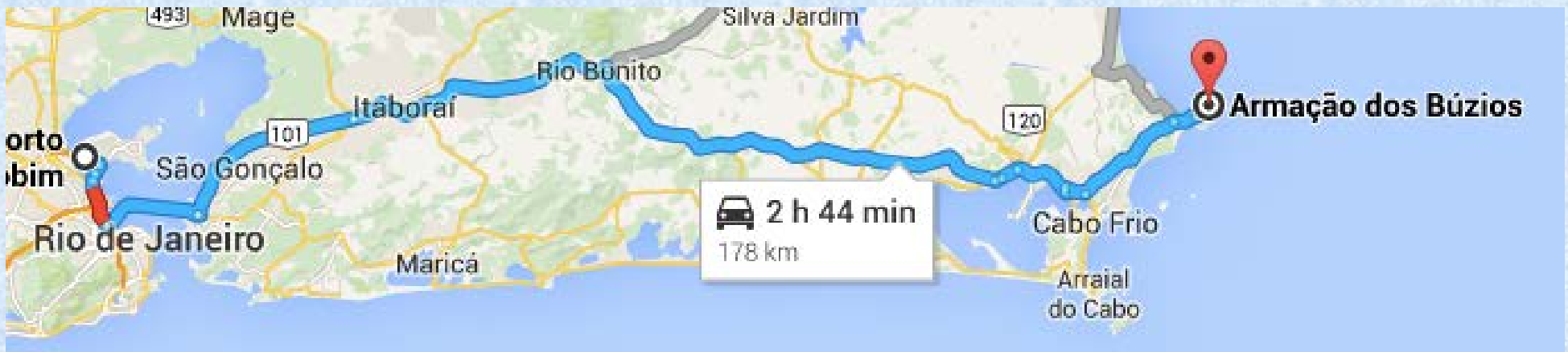**Workshop:** Autonomous and Cooperative Intelligent Vehicles – (António Casimiro and Mohamed Kaaniche)

IFIP WG 10.4
68th Meeting (Summer 2015)
Búzios - Brazil
June 25th - 28th

June 26th to 29th

Logistics

- Búzios is 2 hours and 40 minutes far from Rio de Janeiro and we will get there by a charter bus that will leave from the DSN hotel front door

- Direct Access from / to Int'l Airport or Copacabana -
Auto Viação 1001 (Reservation transfer1001@opcaofretur.com.br)

PROPOSED VENUE: ATLÂNTICO BÚZIOS HOTEL

A charming hotel located in front of the *Armação dos Búzios bay,* very close to the City Center*. A*ll accommodations have electronic system access, TV, air conditioning, roadband internet and a cozy architecture to relax.

The hotel has two swimming pools, a volleyball court, indoor football, gym center, dry sauna and playground.

City of Búzios

Atlântico Búzios Hotel

A meeting room

Accommodation

TOURS IN BÚZIOS

You can also enjoy the beautiful landscape in Búzios scheduling unforgettable sightseeing tours

69th Meeting (winter 2016)

PROPOSALS WELCOME !

Location: TBD

Host: TBD

Dates: TBD

Hotels: TBD

Costs: ~ TBD /night hotel; ~ TBD reg.

- Hotel Includes
  - o Breakfast
  - o Several facilities
  - o WiFi

Workshop : Workshop ideas TBD

70th Meeting (summer 2016)

PROPOSALS TABLED!

Location: near Toulouse

Host: TBD

Dates: TBD

Hotels: TBD

Costs: ~ TBD /night hotel; ~ TBD reg.

- Hotel Includes
  - Breakfast
  - Several facilities
  - WiFi

Workshop : Workshop ideas TBD

71st Meeting (winter 2017)

PROPOSALS TABLED!

Location: TBD, New Zealand

Host: Takashi Nanya (Canon, JP), Dong Seong Kim (University of Canterbury, NZ)

Dates: TBD

Hotels: TBD

Costs: ~ TBD /night hotel; ~ TBD reg.

- Hotel Includes
  - Breakfast
  - Several facilities
  - WiFi

Workshop : Workshop ideas TBD

71st Meeting (winter 2017)

Possible Locations

- ## a) Akaroa
  - ◆ Located in 1.5-2 hours driving distance from Christchurch city where PRDC conference is going to be held. Akaroa is a historic French and British settlement nestled in the heart of an ancient volcano. There are cruises, sail boats, and an excellent range of walking tracks.
- http://www.akaroa.com/
- ## b) Hanmer Springs
  - ◆ 2 hours driving distance from Christchurch city. It is a small town and is built around a popular host spring. Bungy jumping, mountain biking and bush walking are common tourist activities in addition to outdoor hot spa.
- http://hanmersprings.co.nz/
- ## c) Queenstown
  - ◆ Need to fly (non-stop flights available, less than one hour flying time). Definitely one of the best places in NZ. Good to have one day excursion from Queenstown to Milford sound, which is an amazing place to visit.
- http://www.queenstownnz.co.nz/

Workshops outlook

- ## Summer 2013 (Visegrad-Hungary)
  - ◆ Research-papers workshop, DONE

- ## Winter 2014 (Sorrento-Italy)
  - ◆ Security Assessment: Metrics and Methods, DONE

- ## Summer 2014 (Amicalola Falls near-Atlanta-US)
  - ◆ Electrical Smart Grids Security and Dependability, DONE

- ## Winter 2015 (Tortworth-Bristol, UK)
  - ◆ Science of Cyber Security, DONE

- ## Summer 2015 (Búzios, Brazil)
  - ◆ Autonomous and Cooperative Intelligent Vehicles,

- ## Winter 2016 (TBD)
  - ◆ tbd

Major 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, dependability and survivability, middleware for adaptivity 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

Workshop ideas
(FUTURE ideas circulated recently)

- **Medical systems (assisted living, health informatics, applied biomedical engineering)**
- **CPS for automotive, Safety-Security-Dependability vs. Autonomy-Adaptivity-Cooperation**
- **Other focused topics on CPS (a property, a kind)**
- **Autonomous human-machine interaction, cooperative robots**
- **Socio-technical issues of security research and training (ethics, "ethical hacking", awareness)**
- **Economics of security and/or dependability**
- **Foundational research on Dep & Sec**
- **Scaling down to <10nm: dependability challenges and opportunities (H.Madeira and others)**

Members please consider organizing a workshop, even if not the next, it's good to have a few lined-up!
You may do it with the assistance of non-member colleagues.
Please contact me (PJV)

Autonomous and Cooperative Intelligent Vehicles: new safety and security challenges, or yet another critical infrastructure?

(Proposers: António Casimiro, ULisboa, PT; Mohamed Kaaniche, LAAS-CNRS, FR)

NB- Workshop on Safety and Security of Intelligent Vehicles (SSIV@DSN'2015)

- Promising future:

- Car makers are including increasingly more autonomous functions in new models, many of which aiming at improving safety aspects.

- In the air, remote piloted drones are wide-spreading, and new generations of autonomous drones are right around the corner.

- Continuously increasing computational power and improved miniaturized sensors and actuators make it possible to deploy complex control solutions, which should in principle bring the desired autonomy whilst preserving safety.

Autonomous and Cooperative Intelligent Vehicles: new safety and security challenges, or yet another critical infrastructure?

(Proposers: António Casimiro, ULisboa, PT; Mohamed Kaaniche, LAAS-CNRS, FR)

- Yet:

- However, despite the apparent availability of the needed technology, the known examples of fully autonomous vehicles that have been built so far are very restricted.

- Moreover, that either operate in very controlled environments, or require a big pool of expensive equipment, or are under human supervision for ultimate control, or combinations of all these.

Autonomous and Cooperative Intelligent Vehicles: new safety and security challenges, or yet another critical infrastructure?

(Proposers: António Casimiro, ULisboa, PT; Mohamed Kaaniche, LAAS-CNRS, FR)

- **The workshop will provide an opportunity to better understand which problems are ahead of us in this path to autonomous intelligent and cooperative vehicles, and what solutions, possibly from the dependability area, may help us.**

- **Specific questions that would be worthwhile addressing:**
  - Can security be handled separately from safety?
  - Do we have frameworks to deal at the same time with safety and security requirements?
  - Legal restrictions vs technological restrictions: which are the main obstacles for autonomy?
  - From the autonomous single vehicle to an infrastructure of smart connected autonomous vehicles: is this a new critical infrastructure?
  - From autonomous to cooperating vehicles: just a small step, or a major endeavour?
  - Initiatives and example systems: where are we right now?
  - etc...