66th IFIP WG 10.4 Meeting
Amicalola Falls Lodge, Dawsonville, Georgia
June 27-29, 2014

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Business Meeting

Business Meeting Agenda

- IEEE/IFIP DSNs –DSN-2014 wrap-up, DSN 2015

- Upcoming events: Future DSNs and other sponsored events …

- Awards

- Future WG Meetings AND workshops

- Workshop ideas

- Members only portion

IEEE/IFIP International Conference on Dependable Systems and Networks

- ### Atlanta, GA, US (2014)
  - **General Chair: Doug Blough (Georgia Tech, US)**
  - **Program co-Chairs: Nuno Neves (Univ. Lisbon, Portugal), Mike Reiter (UNC Chapel Hill, US)**
  - **Attendance: ~195**
  - **Closed with surplus**

Upcoming Events

IEEE/IFIP International Conference on Dependable Systems and Networks

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

- **Toulouse, France (2016)**
  - General Chair: **Karama Kanoun** (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**

IEEE/IFIP International Conference on Dependable Systems and Networks

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

DSN 2015: Rio de Janeiro, Brazil

- *Dates:* June 23-26, 2014

- *Location:*
  - Rio Othon Palace Hotel
  - in Copacabana, Rio de Janeiro

- *Cost:*
  - *Hotel room rate: ~ $175/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 1489 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 22-26, 2015)

UNICAMP   FACULDADE DE TECNOLOGIA   INSTITUTO DE COMPUTAÇÃO

See
http://dsn.org

IEEE/IFIP International Conference on Dependable Systems and Networks

- **Toulouse, France (2016)**
  - **General Chair: Karama Kanoun (LAAS-CNRS, France)**
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10-12 September, Firenze, Italy

safeComp 2014

international conference on computer safety, reliability & security

Latest News

- Preliminary Program is online
- Registration is open
- Camera ready deadline extended
- Workshops deadlines extended
- Workshops CfPs are online

Important Dates – SAFECOMP'14

- Workshop proposal submission: ~~16 February 2014~~
- Abstract submission (mandatory): ~~25 February 2014~~

The 33rd International Conference on Computer Safety, Reliability and Security

The 20th IEEE Pacific Rim International Symposium on Dependable Computing (PRDC 2014)

Singapore
Nov 18-21, 2014

News

- Please submit your full paper electronically (in PDF format) through the submission web site

- The deadline to submit the regular paper has been expanded to May 16, 2014

Award Updates

Award Updates

- **Carter Award in Dependable Computing**
  - **Scope: An outstanding paper based on a graduate dissertation.**
  - **Committee:** DSN Steering Committee
  - **Selection:**
    - finished
  - **The winner of the DSN 2014 edition was:**
  - **Cuong Pham from Univ. Illinois U-C, US**
  - **Reliability and Security Monitoring of Virtual Machines Using Hardware Architectural Invariants,** *Cuong Pham, Zachary Estrada, Phuong Cao, Zbigniew Kalbarczyk, and Ravishankar Iyer.*

DSN Best paper award

NEW !

- **Phase 1 (ran by PC coChairs):**
  - ◆ Short list of up to 6 papers eligible for the Best Paper Award

- **Phase 2 (before DSN program announced):**
  - ◆ SC trims list down to 1-3 candidates for the Best Paper Award.

- **Phase 3 – Voting (by constituency at the conference)**
  - ◆ Finalists of Best paper award are presented in a plenary session
  - ◆ Every registered person has a right to vote
  - ◆ Winner will be announced at the Banquet

Award Updates

- **DSN Best paper award (2014)**
  - ◆ Scope: Best paper accepted and presented at DSN.
  - ◆ Committee: joint decision of: PC -> SC -> DSN audience
  - ◆ Selection:
    - ☞ finished

- **Winner:**
  - ◆ Reliability and Security Monitoring of Virtual Machines Using Hardware Architectural Invariants, *Cuong Pham, Zachary Estrada, Phuong Cao, Zbigniew Kalbarczyk, and Ravishankar Iyer.*

Award Updates

- **Jean-Claude Laprie Award in Dependable Computing (2014)**
  - **Scope:** Outstanding paper(s) have significantly influenced the theory and/or practice of dependable computing.
  - **Committee:** Dan Siewiorek (Chair)

    Dave Rennels (UCLA, US)
    David Powell (LAAS, FR)
    William Sanders (U. Illinois U-C, US)
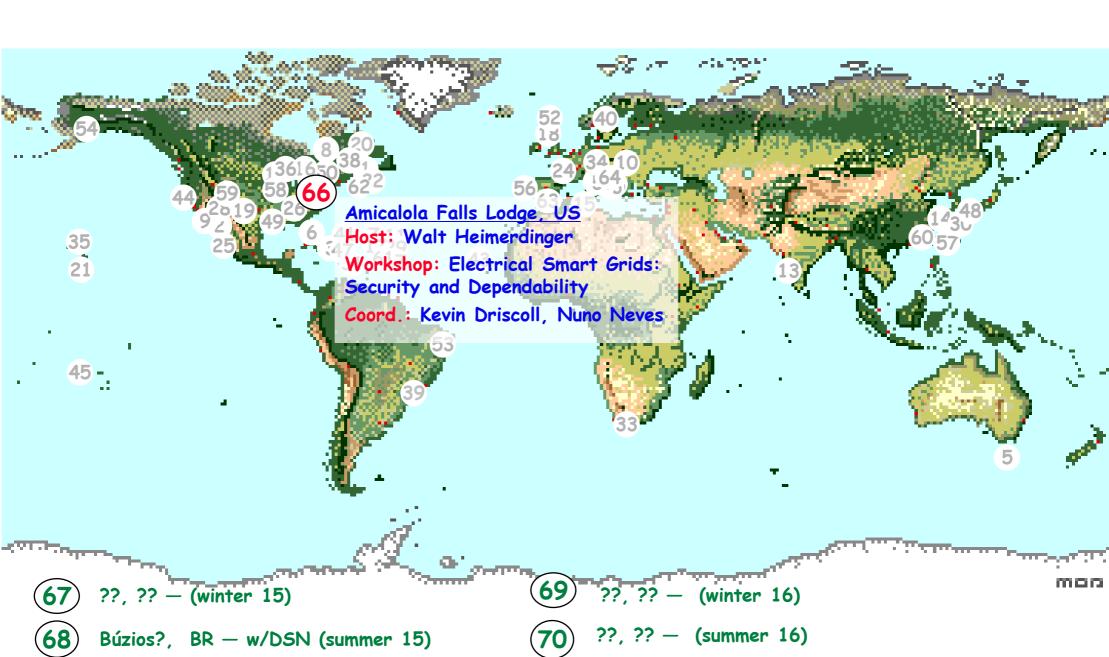   Andrea Bondavalli (U. Firenze, IT)
  - **Selection:**
    - ☞ finished

- **Winner(s):**
  - **B. Randell, "System Structure for Software Fault Tolerance", IEEE Transactions on Software Engineering, vol.SE-1, no.1, 1975, pp 220-232.**
  - **J.H. Wensley, L. Lamport, J. Goldberg, M.W. Green, K.N. Levitt, P.M. Melliar-Smith, R.E. Shostak, C.B. Weinstock, "SIFT: The Design and Analysis of a Fault-Tolerant Computer for Aircraft Control", Proceedings of the IEEE, vol.66, no.10, 1978, pp.1240-1255.**
  - **H. Kopetz, G. Bauer, "The Time-Triggered Architecture", Proceedings of the IEEE, vol.91, no.1, 2003, pp. 112-126.**

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)

Future Working Group Meetings

Amicalola Falls Lodge, US
Host: Walt Heimerdinger
Workshop: Electrical Smart Grids:
Security and Dependability
Coord.: Kevin Driscoll, Nuno Neves

67 ??, ?? — (winter 15)

68 Búzios?, BR — w/DSN (summer 15)

69 ??, ?? — (winter 16)

70 ??, ?? — (summer 16)

67th Meeting (winter 2015)

PROPOSAL APPROVED!

Location: Bristol, Wotton-under-Edge, Cotswolds

Host: Tom Anderson, Newcastle Univ.

Dates: 22-26 January 2015

Hotels: Tortworth Court

Costs: ~125€ /night hotel; ~ 400€ reg. (under negotiation)

- Hotel Includes
  - Full board (all meals)
  - Several facilities
  - WiFi

Workshop : proposal by Roy Maxion for "Science of Cyber Security"

Two options

- Bavaria
  - Location – Rottach-Egern, Tegernsee

- Bristol
  - Location – Wotton-under-Edge, Cotswolds

CSR Newcastle offers full organisational and logistic support for both locations (we have a local agent – known to Roy – in Bavaria).

Bavaria travel

- Munich airport – many international connections
  - then by road: 60 kms, 1.3 hour, parking at hotel
  - or by rail: direct to Munich mainline station, then hourly service to Tegernsee (1 hour journey)

Munich to Tegernsee

90 km
80 min

Bristol travel

- London Heathrow airport
  - then by road: 110 miles, 1.9 hour, parking at hotel
  - or by rail: direct to Paddington mainline station, then frequent service to Bristol (1.5 hour journey)

- or Bristol airport – many European connections
  - then by road: 27 miles, 40 minutes

Bristol to Tortworth

Egerner Hof, Bavaria

Tortworth Court, Bristol

Bavaria excursion

- Visit to the island of Herreninsel
  - On the Chiemsee (largest Bavarian lake)
  - Two palaces (including Ludwig II's largest)
- Evening Bavarian banquet
  - At the Braustuberl – converted monastery (brews own beer)

Palace (exterior)

Bräustüberl

Bristol excursion

- Roman city of Bath
  - Roman bath house
  - The Royal Crescent
- Evening banquet on SS Great Britain
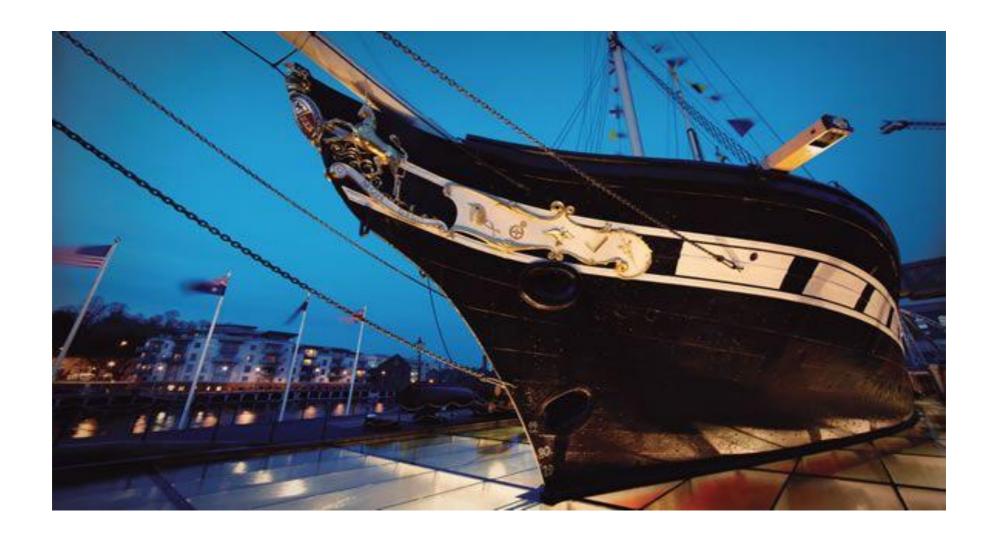 - First large ocean liner (launched 1843)

The Roman baths at Bath

SS Great Britain

Dinner on board

Cost estimates

- Bavaria – accommodation €145/night
  - event charges €540
  - total cost (4 nights) €1120

- Bristol – accommodation £100/night - €125
  - event charges £320   - €400
  - total cost (4 nights) £720   - €900

Cost comparison

- Bavaria   €1120   £900 $1500
- Bristol   €900   £720 $1200

Note that these figures are based on a full stay of four nights at "standard rates" from the hotels - which we hope to negotiate downwards.

We also hope to obtain some modest sponsorship for the event to enable further reductions.

68th Meeting (summer 2015)

PROPOSAL APPROVED!

Location: Armação de Búzios, RJ - Brasil

Host: Regina Moraes e Eliane Martins

Dates: after DSN 15, June 25th - 29th 2015

- **Hotels:** Atlantico / Ferradura / Pérola (under negotiation)

- **Costs:** from ~ US$150 /night

- Includes
  - ○ Bkfast

Workshop ideas TBD

Búzios

How to reach Búzios

Búzios is 208 Km from Rio de Janeiro

We will organize transport by bus from the DSN Hotel

It will take 2 hs

Hotel Atlântico Búzios

Hotel Ferradura

Pérola Búzios

Excursion

City Center - walking

And

Two Options: By boat or By Bus visiting....

    Cabo Frio

    Arraial do Cabo

    Baía de Búzios (boat)

69th Meeting (winter 2016)

PROPOSALS WELCOME !

Location: TBD

Host: TBD

Dates: TBD

Hotels: TBD

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

- Hotel Includes
    - Breakfast
    - Swimming pool, wellness and fitness facilities
    - 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
  - Swimming pool, wellness and fitness facilities
  - WiFi

Workshop : Workshop ideas TBD

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 (tbd)**
  - ◆ **Science of Cyber Security, TABLED**

- **Summer 2015 (Búzios)**
  - ◆ **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, Security Assessment, CPS dependability, Dependability in Cloud Systems,

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
- Science of Cyber Security (R.Maxion)
- Scaling down to <10nm: dependability challenges and opportunities (H.Madeira and others)

Members please consider organizing, also in collaboration with non-member colleagues. Please contact me (PJV)