70th Meeting of IFIP Working Group 10.4
on Dependable Computing and Fault Tolerance

Sorèze, France — June 24-27, 2016

Program

Friday, June 24

19:30   **Welcome Reception and Dinner at Hotel** *Abbaye-Ecole de Sorèze*

Saturday, June 25

8:00   **Introduction to the Meeting**
Paulo Veríssimo, University of Luxembourg, LU
Jean Arlat, LAAS-CNRS, Toulouse, FR

Workshop on Smart Factories:
A New Challenge for Dependable and Secure Computing

8:15   **Introduction to the Workshop**
Jean Arlat

Session 1 — Global Overview and On-Going Initiatives
 Moderator/Rapporteur: Farnam Jahanian, Carnegy Mellon University, Pittsburgh, PA, US

8:30   **Smart Production in Future Aircraft Factory:**
Designing a CPS Platform Approach for Manufacturing Processes
Sébastien Boria, R&D Mechatronics Technology, Airbus, Toulouse, FR

9:15   **New Robotics for Factories of the Future**
Raja Chatila, ISIR - CNRS & UPMC *Sorbonne Universités*, Paris, FR

10:00   **Discussion**

10:15   *Coffee Break*

Session 2 – Architecture Design
 Moderator/Rapporteur: Nuno Neves, University of Lisboa, Lisbon, PT

10:30   **Open Manufacturing Operating System (OpenMOS) for Intelligent**
Plug-and-Produce: Architecture Design and Cross-Cutting Concerns
Regarding Safety and Security
Chih-Hong Cheng, FORTISS-TUM, Munich, DE

11:15   ***Breakout - Visit of Revel: "Bastide", parish Church and Market place***

13:00   *Lunch at Hotel and Break*

14:45   *Visit of Abbey* (optional)

15:45   *Coffee Break*

Session 3 — Collaborative Robots and Assessment
 Moderator/Rapporteur: Doug Blough, Georgia Institute of Technology, Atlanta, GA, US

16:00   **Safety Rules Synthesis for Run-Time Monitoring of Autonomous Robots**
in Human Environment
Jérémie Guiochet, LAAS-CNRS, Toulouse, FR

16:45   **SAFER-HRC: Safety Analysis through Formal vERification**
in Human-Robot Collaboration
Matteo G. Rossi, Politecnico di Milano, Milan, IT

17:30   **Discussion on Sessions 2 and 3**

18:00   *End of Workshop Day 1*

WG Business Meeting

18:00   **IFIP WG 10.4 Business Meeting**

19:45   *End of Meeting Day 1*

20:00   *Dinner at Hotel*   *.../...*

Sunday, June 26

Session 4 – Connected Objects and Communications
 Moderator/Rapporteur: Elmootazbellah Elnozhay, King Abdullah University of Science
& Technology, Thuwal, SA

   9:00   **Deterministic Ethernet: Consolidation of IT
and OT based Real-Time Virtualization**
Wilfried Steiner, TTTech Labs., Vienna, AT

   9:45   **Smart Factories and Secure Cloud Storage Services:
Vulnerabilities and Countermeasures**
Chia-Mu Yu, Yuan Ze University, Taoyuan City, TW

  10:30   **Discussion**

  10:45   ***Coffee Break***

Session 5 - Workshop Wrap up
 Moderator: Mohamed Kaâniche, LAAS-CNRS, Toulouse, FR

  11:15   **Presentations of Summaries by Session Rapporteurs
and Discussion**

  11:55   ***End of Workshop***

  12:00   ***Lunch***

  13:30   ***Excursion (Albi: Toulouse Lautrec Museum, St. Cecilia's Cathedral,
Gaillac: Vayssette Wineyard & Winery) and Banquet at Winery***

  23:00   ***Return to Hotel***

Monday, June 27

   9:00   **Research Reports** (on-site enrollment)

  10:30   ***Coffee Break***

  11:00   **Research Reports** (on-site enrollment)

        End of IFIP WG 10.4 Meeting

  12:00   ***Lunch***

  13:30   ***Departure to Carcassonne (Visit of the Medieval City)
Trip back to Toulouse: Airport (18h) ; Downtown (18h30)***