ASSURE 2015: The 3rd International Workshop on Assurance Cases for Software-Intensive Systems

Workshop Programme

September 22, 2015
Delft, The Netherlands

Tuesday, 22nd September 2015	
08:00 - 09:00	**Registration**
	Session 1. Keynote and Foundations
09:00 – 09:10	**Welcome and Introduction** *ASSURE 2015 Organizers*
09:10 – 10:00	**Keynote (Title: TBC)** *Pippa Moore, UK Civil Aviation Authority*
10:00 – 10:30	**Informing Assurance Case Review through a Formal Interpretation of GSN Core Logic** *Victor Bandur, and John McDermid*
10:30 – 11:00	**Representing Confidence in Assurance Case Evidence** *Lian Duan, Sanjai Rayadurgam, Mats Heimdahl, Oleg Sokolsky, and Insup Lee*
11:00 – 11:30	**Coffee/Tea Break**
	Session 2: Methodology and Patterns
11:30 - 12:00	**Safe and Sec Case Patterns** *Kenji Taguchi, Daisuke Souma, and Hideaki Nishihara*
12:00 - 12:30	**A Comprehensive Safety Lifecycle** *John Knight, Jonathan Rowanhill, Anthony Aiello, and Kimberly Wasson*
12:30 - 13:00	**An Approach to Assure Dependability Through ArchiMate** *Shuichiro Yamamoto*
13:00 – 14:00	**Lunch Break**
	Session 3: Tool Support and Tool Demonstrations
14:00 - 14:30	**Tool Support for Assurance Case Building Blocks: Providing a Helping Hand with CAE** *Kateryna Netkachova, Oleksandr Netkachov, and Robin Bloomfield*
14:30 - 15:00	**Safety.Lab: Model-based Domain Specific Tooling for Safety Argumentation** *Daniel Ratiu, Marc Zeller, and Lennart Kilian*
15:00 - 15:30	**A Safety Condition Monitoring System** *John Knight, Jonathan Rowanhill, and Jian Xiang*
15:30 – 16:00	**Coffee/Tea Break**
	Session 4: Applications and Panel
16:00 – 16:30	**Fault Type Refinement for Assurance of Families of Platform-Based Systems** *Sam Procter, John Hatcliff, Sandy Weininger, and Anura Fernando*
16:30 – 17:50	**PANEL: The Role of Argumentation in Certification and Safety Risk Management** *Panelists: TBD*
17:50 – 18:00	**Closure** *ASSURE 2015 Organizers*

DECSoS 2015: EWICS/ERCIM/ARTEMIS Dependable Cyber-Physical Systems and Systems-of-Systems Workshop Programme

September 22, 2015
Delft, The Netherlands

Tuesday, 22nd September 2015	
08:00 - 09:00	**Registration**
	Session 1. Introduction, and Safety & Cyber – Security Co-assessment
09:00 – 09:30	**Introduction to the ERCIM/EWICS/ARTEMIS DECSoS Workshop: European Research and Innovation Initiatives in the Area of Cyber-Physical Systems and Systems-of-Systems (Selective Overview)** *E. Schoitsch, and A. Skavhaug*
09:30 – 10:00	**Qualitative and Quantitative Analysis of CFTs Taking Security Causes into Account** *Max Steiner, and Peter Liggesmeyer*
10:00 – 10:30	**Sequential Logic for State/Event Fault Trees: A Methodology to Support the Failure Modeling of Cyber Physical Systems** *Michael Roth, and Peter Liggesmeyer*
10:30 – 11:00	**Towards a Framework for Alignment between Automotive Safety and Security Standards** *Christoph Schmittner, and Zhendong Ma*
11:00 – 11:30	**Coffee/Tea Break**
	Session 2: Robotics and Motion Control
11:30 - 12:00	**Reconfiguration Testing for Cooperating Autonomous Agents** *Francesca Saglietti, Stefan Winzinger, and Raimar Lill*
12:00 - 12:30	**A Motion Certification Concept to Evaluate Operational Safety and Optimizing Operating Parameters at Runtime** *Sebastian Müller, and Peter Liggesmeyer*
12:30 - 13:00	**Approach for Demonstrating Safety for a Collision Avoidance System** *Thomas Gruber, and Christian Zinner*
13:00 – 14:00	**Lunch Break**
	Session 3: Modelling, Testing and Verification
14:00 - 14:30	**Contract Modeling and Verification with FormalSpecs Verifier Tool-Suite - Application to Ansaldo STS Rapid Transit Metro System Use Case** *Marco Carloni, Orlando Ferrante, Alberto Ferrari, Gianpaolo Massaroli, Antonio Orazzo, and Luigi Velardi*
14:30 - 15:00	**Towards Verification of Multicore Motor-drive Controllers in Aerospace** *Stylianos Basagiannis, and Francisco Gonzalez-Espin*
15:00 - 15:30	**FlexRay Robustness Testing Contributing to Automated Safety Certification** *Erwin Kristen, and Egbert Althammer*
15:30 – 16:00	**Coffee/Tea Break**
	Session 4: Dependability and Scalability
16:00 – 16:30	**Towards Perfectly Scalable Real-Time Systems** *Peter Priller, Werner Gruber, Niklas Olberding, and Dietmar Peinsipp*
16:30 – 17:00	**Dependable Cyber-Physical Systems with Redundant Consumer Single-Board Linux Computers** Øyvind Netland, and Amund Skavhaug
17:00 – 17:30	**Closure**

ISSE 2015: The 2nd International Workshop on the Integration of Safety and Security Engineering

Workshop Programme

September 22, 2015
Delft, The Netherlands

Tuesday, 22nd September 2015	
14:00 - 14:10	**Welcome** *L. Rioux, and J. Favaro*
14:10 – 14:30	**Invited Talk** *TBA*
14:30 – 15:00	**A Combined Safety-Hazards and Security-Threat Analysis Method for Automotive Systems** *Georg Macher, Andrea Holler, Harald Sporer, Eric Armengaud, and Christian Kreiner*
15:00 – 15:30	**Safety and Security Assessment of Behavioral Properties using Alloy** *Julien Brunel, and David Chemouil*
15:30 – 16:00	**Coffee/Tea Break**
16:00-16:30	**Combining MILS with Contract-Based Design for Safety and Security Requirements** *Alessandro Cimatti, Rance Delong, Davide Marcantonio, and Stefano Tonetta*
16:30-17:00	**Security Analysis of Urban Railway Systems: The Need for a Cyber-Physical Perspective** *Binbin Chen, Christoph Schmittner, Zhendong Ma, William G. Temple, Xinshu Dong, Douglas L. Jones, and William H. Sanders*
17:00-17:30	**Sequential and Parallel Attack Tree Modelling** *Florian Arnold, Dennis Guck, Rajesh Kumar, and Marielle Stoelinga*
17:30	**Closure**

ReSA4CI 2015: The 2nd International Workshop on Reliability and Security Aspects for Critical Infrastructure Protection

Workshop Programme

September 22, 2015
Delft, The Netherlands

Tuesday, 22nd September 2015	
08:00 - 09:00	**Registration**
09:00 – 09:15	**Opening**
09:15 – 10:00	**Invited Talk**
	Session 1: Security and Dependability Analysis of Critical Infrastructure
10:00 - 10:30	**How to use Mobile Communication in Critical Infrastructures: a Dependability Analysis** *Jonas Wäfler and Poul E. Heegaard*
10:30 – 11:00	**Using Structured Assurance Case Approach to Analyse Security and Reliability of Critical Infrastructures** *Kateryna Netkachova, Robin Bloomfield, Peter Popov, and Oleksandr Netkachov*
11:00 – 11:30	**Coffee/Tea Break**
	Session 2: Evaluation Methodologies for Critical Infrastructure
11:30 - 12:00	**Analysis of Companies Gaps in the Application of Standards for Safety-Critical Software** *Andrea Ceccarelli, and Nuno Silva*
12:00 – 12:30	**Simulative Evaluation of Security Attacks in Networked Critical Infrastructures** *Marco Tiloca, Francesco Racciatti, and Gianluca Dini*
12:30 – 13:00	**Optimization of Reconfiguration Mechanisms in Critical Infrastructures** *Szilvia Varro-Gyapay, Dániel László Magyar, Melinda Kocsis-Magyar, Katalin Tasi, Attila Hoangthanh Dinh, Ágota Bausz and László Gönczy*
13:00	**Closure**

SASSUR 2015: The 4th International Workshop on Next Generation of System Assurance Approaches for safety-critical Systems

Workshop Programme

September 22, 2015
Delft, The Netherlands

Tuesday, 22nd September 2015	
08:00 - 09:00	**Registration**
09:00 – 09:10	**Welcome** *Alejandra Ruiz*
09:10 – 10:20	**Keynote (Title: Time and Space Partitioning)** *Jean – Loup Terraillon (ESA Member)*
10:20 – 11:00	**Multidirectional Modular Conditional Safety Certificates** *Tiago Amorim, Alejandra Ruiz, Christoph Dropmann, and Daniel Schneider*
11:00 – 11:30	**Coffee/Tea Break**
11:30 - 12:10	**Approaches for Software Verification of an Emergency Recovery System for Micro Air Vehicles** *Martin Becker, Markus Neumair, Alexander Söhn, and Samarjit Chakraborty*
12:10 – 12:50	**The Role of CM in Agile Development of Safety-Critical Software** *Tor Stålhane, and Thor Myklebust*
12:50 – 14:00	**Lunch Break**
14:00 - 14:40	**Is Incremental Safety Assurance Sound?** *V. Cassano, S. Grigorova, N. K. Singh, M. Adedjouma, M. Lawford, T.S.E. Maibaum, and A. Wassyng*
14:40 - 15:20	**Dependability Arguments Supported by Fuzz-Testing** *Uwe Becker*
15:20 – 16:00	**Coffee/Tea Break**
16:00 – 17:15	**Industrial Panel** *Moderator: Tim Kelly*
17:15 – 17:30	**Wrap up & Closure**