

DETAILED PROGRAM

DAY 1: 16 October 2019

Room: SIROCCO

08:00 - 09:00	Registration
09:00 - 09:30	Welcome Note
09:30 - 10:30	Session I – Safety Models and Languages I
	Title 1: Modeling functional allocation in AltaRica to support MBSE/ MBSA consistency <i>Mathilde Machin, Estelle Saez, Pierre Virelizier and Xavier de Bossoreille</i>
	Title 2: Model Based approach for RAMS analyses in the Space domain with Capella open-source tool <i>Lorenzo Bitetti, Régis De Ferluc, David Mailland, Guy Gregoris and Fulvio Capogna</i>
	Title 3: Modeling patterns for the assessment of maintenance policies with AltaRica 3.0 <i>Michel Batteux, Tatiana Prosvirnova and Antoine Rauzy</i>
10:30 - 11:00	Coffee Break
11:00 - 12:30	Poster Session
	Title 1: Towards Assessing Risk of Reality Augmented Safetycritical Socio-technical Systems <i>Soheila Sheikh Bahaei and Barbara Gallina</i>
	Title 2: Safety and Security of IoT-based Solutions for Autonomous Driving: Architectural Perspective <i>Omar Veledar, Georg Macher, Eric Armengaud, Stefan Jakšić, Christoph Schmittner, Violeta Damjanovic-Behrendt, Christos Thomos, Kay Roemer, Konrad Diwold, Leo Happ Botler, Mario Drobnics and Eva Maria Holzer</i>
	Title 3: Tsunami Evacuation Modeling Using an Agent-Based Simulation: A Case of Barrio Barretto City, the Philippines <i>Karintorn Jirajarus, Jiranont Khorsuwandee, Kanin Thaviyonchai, Natt Leelawat, Jing Tang, Patchanok Srivihok and J Elaine Layug</i>
	Title 4: Production Planning Process Model Redesign Through Enterprise Engineering: A Case of Printing Company <i>Jaruwit Kanitthum, Kelwalin Eiamkuekool, Hemvitee Suttinont, Jing Tang and Natt Leelawat</i>
	Title 5: Towards compliance assurance for automotive safety-critical development: a model-based approach
12:30 - 14:00	Lunch Break



14:00 - 15:30	Session II - Dependability Analysis Processes I
	Title 1: A Conceptual Framework to Incorporate Complex Basic Events in HiP-HOPS <i>Sohag Kabir, Koorosh Aslansefat, Ioannis Sorokos, Youcef Gheraibia and Yiannis Papadopoulos</i>
	Title 2: Compositionality of Component Fault Trees <i>Simon Greiner, Peter Munk and Arne Nordmann</i>
	Title 3: Tiered Model-Based Safety Assessment <i>Kevin Delmas, Christel Sequin and Pierre Bieber</i>
	Title 4: Model synchronization: a formal framework for the management of heterogeneous models of complex technical systems <i>Michel Batteux, Tatiana Prosvirnova and Antoine Rauzy</i>
15:30 - 16:00	Coffee Break
16:00 - 17:30	Session III - Security Assessment
	Title 1: A Serverless Architecture for Wireless Body Area Network Applications <i>Pangkaj Chandra Paul, John Loane, Fergal McCaffery and Gilbert Regan</i>
	Title 2: Automated Model-based Attack Tree Analysis using HiP-HOPS <i>Declan Whiting, Ioannis Sorokos, Yiannis Papadopoulos, Gilbert Regan and Eoin O'Carroll</i>
	Title 3: What Today's Serious Cyber Attacks on Cars Tell Us: Consequences for Automotive Security and Dependability <i>Markus Zoppelt and Ramin Tavakoli Kolagari</i>
	Title 4: Safety and Security Aspects of Fail-operation Urban Surround perceptiON(FUSION) <i>Georg Macher, Norbert Druml, Omar Veledar and Jakob Reckenzaun</i>
18:00 - 19:00	Welcome Reception

DETAILED PROGRAM

DAY 2: 17 October 2019

Room: SIROCCO

08:00 - 08:30	Registration
08:30 - 09:30	Keynote Talk Using Model Checking for Fault Tree Analysis Title: Up-to-date topics on using model checking for fault-tree analysis <i>Joost-Pieter Katoen</i>
09:30 - 10:30	Session IV - Safety Assessment in Automotive Industry
	Title 1: An Approach for Validating Safety of Reception Software in Autonomous Driving Systems <i>Deepak Rao, Plato Pathrose, Felix Huening and Jithin Sid</i>
	Title 2: Stochastic modeling of autonomous vehicles driving scenarios using PEPA <i>Wei Chen and Leila Kloul</i>
	Title 3: A Runtime Safety Analysis Concept for Open Adaptive Systems <i>Sohag Kabir, Ioannis Sorokos, Koorosh Aslansefat, Yiannis Papadopoulos, Youcef Gheraibia, Jan Reich, Merve Saimler and Ran Wei</i>
10:30 - 11:00	Coffee Break
11:00 - 12:30	Session V - Safety Models and Languages II
	Title 1: A Domain Specific Language to support HAZOP Studies of SysML Models <i>Arut Prakash Kaleeswaran, Peter Munk, Samir Sarkic, Thomas Vogel and Arnze Nordmann</i>
	Title 2: Intergating Existing Safety Analyses into SysML <i>Kester Clegg, John McDermid, Mole Li, David Stamp and Alan Grigg</i>
	Title 3: FDS-ML: A New Modeling Framework For Probabilistic Risk and Safety Analyses <i>Liu Yang and Antoine Rauzy</i>
	Title 4: Integrating Safety Design Artifacts into System Development Models using SafeDeML <i>Tim Gonschorek, Frank Ortmeier, Marco Filax and Philipp Bergt</i>
12:30 - 14:00	Lunch Break



14:00 - 15:30	Session VI - Dependability Analysis Processes II
	Title 1: DPN - Dependability Priority Numbers <i>Zhensheng Guo and Marc Zeller</i>
	Title 2: Towards dependability and energy aware asset management framework for maintenance planning in smart grids <i>Jose Ignacio Aizpurua, Unai Garro, Enaut Muxika, Mikel Mendicutu and Ian Paul Gilbert</i>
	Title 3: Network Interlocking Control by Distributed Signal Boxes <i>Stylianos Basagiannis and Panagiotis Katsaros</i>
	Title 4: SQUADfps: Integrated model-based machine safety and product quality for flexible production systems <i>Chee Hung Koo, Stefan Rothbauer, Marian Vorderer, Kai Hofig and Marc Zeller</i>
15:30 - 16:00	Coffee Break
16:00 - 17:30	Session VII - AI in Safety Assessment
	Title 1: Clustering Environmental Conditions of Historical Accident Data to efficiently generate Testing Sceneries for Maritime Systems <i>Tim Wullner, Sebastian Feuerstack and Axel Hahn</i>
	Title 2: Pattern-Based Formal Approach to Analyze Security and Safety of Control Systems <i>Inna Vistbakka and Elena Troubitsyna</i>
17:30 - 18:00	Closing Session
19:30 - 22:00	Conference Dinner



DETAILED PROGRAM

DAY 3: 18 October 2019

Room: SIROCCO

08:00 - 08:30	Registration
08:30 - 09:30	Tutorial I Modelling Software Systems Security with SAM and EAST-ADL <i>Ramin Tavakoli</i>
09:30 - 10:30	Tutorials II Modeling and Verification with VECS and SAML <i>Tim Gonschorek</i>
	Tutorials III Rigorous Component-based Design in BIP <i>Simon Bludze</i>
10:30 - 11:00	Coffee Break
11:00 - 13:15	Tutorials IV Safety Modelling and Assessment with AltaRica 3.0 <i>Michel Batteux et al.</i>
	Tutorials V Model-based safety assessment of complex system using the Component Fault Tree (CFT) methodology <i>Marc Zeller</i>
	Tutorials VI Using Digital Dependability Identities for Dependability Model Exchange and Integration across the Supply Chain <i>Sorokos et al.</i>
13:15 - 14:30	Lunch