

**SPICE Conference 2017
Wednesday 4 October**



Universitat
de les Illes Balears

8.30 – 9.00	Registration	
9.00 – 9.30	Conference Opening and Welcome Address	
9.30 – 10.30	Keynote 1: Lean & Agile Actionable Metrics. <i>Håkan Jegebo</i> Chair: <i>Terry Rout</i>	Conference room (ground floor)
10.30 – 11.00	Coffee Break	
11.00 – 12.15	Technical Session 1: SPI in Agile Approaches Room 28 Chair: <i>Paul Clarke</i> Towards the Development of a sequential Framework for Agile Adoption <i>Miloš Jovanović, Antoni-Lluís Mesquida, Antònia Mas and Bojan Lalić</i> NDT-Agile: An Agile, CMMI-Compatible Framework for Web Engineering <i>Carlos Torrecilla-Salinas, Tatiana Guardia, Olga De Troyer, Manuel Mejías and Jorge Sedeño</i> DevSecOps: A Multivocal Literature Review <i>Håvard Myrbakken and Ricardo Colomo-Palacios</i>	Technical Session 2: SPI and Models I Room 29 Chair: <i>Clenio Salviano</i> Applying Agent-based Simulation to the Improvement of Agile Software Management <i>Nuria Hurtado, Mercedes Ruiz, Cristina Capitas and Elena Orta</i> An Exploratory Study on Usage of Process Mining in Agile Software Development <i>Sezen Erdem and Onur Demirörs</i> A Formalization of the ISO/IEC 15504 - Enabling Automatic Inference of Capability Levels <i>Diogo Proença and Jose Borbinha</i>
12.15 – 12.45	Tapas Majorcan style	
12.45 – 14.00	Technical Session 3: SPI and Assessment I Room 28 Chair: <i>Eva Breske</i> The Maturity of Usability Maturity Models <i>Carmen Carvajal and Ana María Moreno</i> Comparative study of cybersecurity capability maturity models <i>Angel Marcelo Rea-Guaman, Tomás San Feliu, Jose A. Calvo-Manzano and Isaac Daniel Sánchez-García</i> The Evolution of the TIPa Framework: Towards the Automation of the Assessment Process in a Design Science Research Project <i>Beatrix Barafort, Anup Shrestha and Stéphane Cortina</i>	Technical Session 4: SPI in Small Settings Room 29 Chair: <i>Ricardo Colomo-Palacios</i> Assessment Model for HCI Practice Maturity in Small and Medium Sized Software Development Companies <i>Abiodun Ogunyemi, David Lamas, Jan Stage and Marta Lárusdóttir</i> Cultural Issues and Impacts of Software Process in Very Small Entities (VSEs) <i>Tatsuya Nonoyama, Lian Wen, David Tuffley and Terry Rout</i> Comparing SPI survival studies in small settings <i>Xabier Larrucea and Izaskun Santamaria</i>

14.00 – 15.30 Lunch at Sandro Restaurant

15.30 – 17.10 **Technical Session 5: SPI and Functional Safety** **Room 28**

Chair: *Fergal Mc Caffery*

How does Scrum Conform to the Regulatory Requirements Defined in MDevSPICE?

Özden Özcan - Top and Fergal Mc Caffery

Testing in Automotive SPICE and TestSPICE - synergies and benefits

Tomas Schweigert and Klaudia Dussa-Zieger

Deep Learning in Automotive: Challenges and Opportunities

Fabio Falcini and Giuseppe Lami

A Proposed Approach to the Revision of IEC 80001-1 following Annex SL

Silvana Togneri Macmahon, Todd Cooper and Fergal Mc Caffery

Technical Session 6: SPI in Various Settings **Room 29**

Chair: *Xabier Larrucea*

Enterprise SPICE Extension for Smart Specialization Based Regional Innovation Strategy

Michael Boronowsky, Ieva Mitasiunaite-Besson, Antanas Mitasiunas, David Wewetzer and Tanja Woronowicz

Developing an Integrated Risk Management Process Model for IT Settings in an ISO Multi-Standards Context

Béatrix Barafort, Antoni Lluís Mesquida and Antonia Mas

A Framework for Assessing Organisational IT Governance, Risk and Compliance

Mikhel Vunk, Nicolas Mayer and Raimundas Matulevicius

A Process Reference Model and a Process Assessment Model to Foster R&D&I Management in Organizations: MGPDI

Kival Weber, Cristina Machado, Renato Machado, Ana Liddy Magalhães, Ana Marcia Duarte, Maria Teresa Villalobos-Aguayo, Cristiano Schwening, Rosane Melchiona and Jose Antonio Antonioni

19.30 - late Welcome cocktail and Conference banquet at Es Baluard



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9.00 – 9.15	Registration			
9.15 – 10.30	<p>Technical Session 7: SPI and Assessment II Room 28</p> <p>Chair: <i>Tomas Schweigert</i></p> <p>Development of an Assessment Model for Industry 4.0: Industry 4.0-MM <i>Ebru Gökalp, Umut Şener and P. Erhan Eren</i></p> <p>A SPICE-based Maturity Model for the Governance and Management of Green IT <i>J. David Patón-Romero, Moisés Rodríguez and Mario Piattini</i></p> <p>A Multi-layer Representation Model for the ISO/IEC 33000 Assessment Framework: Analysing composition and behaviour <i>Alvaro Fernández Del Carpio</i></p>	<p>Technical Session 8: SPI and Models II Room 29</p> <p>Chair: <i>Terry Rout</i></p> <p>A model-driven proposal to execute and orchestrate processes: PLM4BS <i>Julián Alberto García García, Ayman Meidan, Antonio Vázquez Carreño and Manuel Mejías Risoto</i></p> <p>An Axiom based Metamodel for Software Process Formalisation: An Ontology Approach <i>Edward Kabaale, Lian Wen, Zhe Wang and Terry Rout</i></p> <p>Towards a semi-automated tool for interoperability assessment: an ontology-based approach <i>Gabriel Leal, Wided Guédria, Hervé Panetto and Erik Proper</i></p>		
10.30 – 11.00	Coffee Break			
11.00 – 12.00	<p>Keynote 2: Quo Vadis Software Process Improvement? DevOps, continuous software engineering and more. <i>Ricardo Colomo-Palacios</i></p> <p align="right">Conference room (ground floor)</p> <p>Chair: <i>Antonia Mas</i></p>			
12.00 – 13.15	<p>Technical Session 9: SPI and Gamification Room 28</p> <p>Chair: <i>Rory O'Connor</i></p> <p>Gamification for Improving IT Service Incident Management <i>Elena Orta, Mercedes Ruiz, Alejandro Calderón and Nuria Hurtado</i></p> <p>A systematic investigation into the use of game elements in the context of software business landscapes: A Systematic Literature Review <i>Serhan Olgun, Murat Yilmaz, Paul Clarke and Rory O'Connor</i></p> <p>Coverage of the ISO 21500 Standard for Project Management by a Simulation-based Serious Game <i>Alejandro Calderón Sánchez, Mercedes Ruiz and Rory O'Connor</i></p>	<p>Technical Session 10: Strategic and Knowledge Issues in SPI Room 29</p> <p>Chair: <i>Béatrix Barafort</i></p> <p>The impact of situational context on the software development process – A case study of a highly innovative start-up organization <i>Gerard Marks, Rory O'Connor and Paul Clarke</i></p> <p>Aspects you should consider in your action plan when implementing an improvement strategy <i>Peter H. Carstensen and Otto Vinter</i></p> <p>Exploring Knowledge Loss in Open Source Software (OSS) Projects <i>Mehvish Rashid, Paul Clarke and Rory O'Connor</i></p>		

13.15 – 15.00	Lunch at Sandro Restaurant			
15.00 – 16.15	Technical Session 11: SPI Case Studies Chair: <i>Tanja Woronowicz</i> Exploration of a Practical Approach for Assessing the Measurement Capability of Software Organizations <i>Murat Salmanoglu, Onur Demirörs, Ali Yildiz and Ahmet Coşkunçay</i> SPICE in the Real World: Success for Large Infrastructural Projects with ISO/IEC 15504 Part 6 <i>Dirk Pfaunder, Tomas Schweigert and Paul Hendriks</i> The Role of International Standards to Corroborate Artefact Development and Evaluation: Experiences from a Design Science Research Project in Process Assessment <i>Anup Shrestha, Aileen Cater-Steel, Mark Toleman and Terry Rout</i>	Room 28	Technical Session 12: Education Issues in SPI Chair: <i>Toni Mesquida</i> Relating Student, Teacher and Third-Party Assessments in a Bachelor Capstone Project <i>Vincent Ribaud and Leilde Vincent</i> Evaluation Model of PRO2PI-WORK4E Method for teaching Software Process Improvement <i>Clenio F. Salviano</i> Towards a Strategy for Process Improvement Education and Training <i>Linda Ibrahim and Antanas Mitasiunas</i>	Room 29
16.15 – 17.00	Panel Session		Room 29	
17.00	Conference Close		Room 29	