

ECSA 2017

11th European Conference on Software Architecture
11-15 September
Canterbury, UK



Program and Information

11th September - Workshops	
8:30 - 9:30	Registration
9:00 - 10:30	Grimond LT3
	SAEroCon - Software Architecture Erosion and Architectural Consistency
10:30 - 11:00	Break (Grimond Foyer)
11:00 - 12:30	
12:30 - 14:00	Lunch (Grimond Foyer)
13:30 - 15:00	
15:30 - 16:00	Break (Grimond Foyer)
16:00 - 17:30	

Monday: 11 September Workshops

Tuesday: 12 September

Workshops

Tuesday, 12th September - Workshops				
8:30 - 9:00	Registration			
9:00 - 10:30	Grimond LT3	Grimond SR2	Grimond SR3	Grimond SR4
	SAEroCon - Software Architecture Erosion and Architectural Consistency	CASA – Workshop on Context-aware, Autonomous and Smart Architecture	MeSSa - Monitoring and Measurability of Software and Network Security	SAGRA - Sustainable Architecture: Global Collaboration, Requirements, Analysis
10:30 - 11:00	Break (Grimond Foyer)			
11:00 - 12:30				
12:30 - 14:00	Lunch (Grimond Foyer)			
14:00 - 15:30				
15:30 - 16:00	Break (Grimond Foyer)			
16:00 - 17:30				

Wednesday: 13 September

Main Track – Doctoral Symposium – Tool Demos - Posters

Wednesday, 13th September 2017	
8:30 - 9:30	Registration
9:00 - 9:30	Grimond LT1
	Opening Session
9:30 - 10:30	Keynote Session chair: Antónia Lopes
	Paola Inverardi (Università degli Studi dell'Aquila, Italy) "Software Architectures: How Components can go Politely Social"
10:30 - 11:00	Break (Grimond Foyer)
11:00 - 12:30	Session 1 - Software Architecture Evolution Session chair: Flávio Oquendo
	<p>11:00-11:35 Georgios Digkas, Mircea Lungu, Alexander Chatzigeorgiou and Paris Avgeriou. "The evolution of Technical Debt in The Apache Ecosystem"</p> <p>11:35-12:10 Juarez Meneses Filho, Lincoln Rocha, Rossana Andrade and Ricardo Britto. "Preventing Erosion in Exception Handling Design using Static-Architecture Conformance Checking"</p> <p>12:10-12:30 Federico Giaimo, Christian Berger and Crispin Kirchner. "Considerations about Continuous Experimentation for Resource-Constrained Platforms in Self-Driving Vehicles"</p>
12:30 - 14:00	Lunch (Rutherford Dinning Hall)

14:00 - 15:30	Session 2 - Software Architecture Analysis and Verification Session chair: Khalil Drira
	<p>14:00-14:35 Javier Cámara Moreno, David Garlan and Bradley Schmerl. "Synthesis and Quantitative Verification of Tradeoff Spaces for Families of Software Systems"</p> <p>14:35- 15:10 Thanh Dat Nguyen, Yassine Ouhammou and Emmanuel Grolleau. "PARAD Repository: On the Capitalization of Performance Analysis Process for AADL Designs"</p> <p>15:10-15:30 Catia Trubiani and Raffaella Mirandola. "COntinuous REarchitecting of QoS Models: Collaborative Analysis for Uncertainty Reduction"</p>
15:30 -16:00	Break (Grimond Foyer)
16:00 - 18:00	Doctoral Symposium Session chair: Laurence Duchien
	<p>16:00-16:15 Manoj Bhat, Klym Shumaiev and Florian Matthes. "Towards a framework for managing architectural design decisions"</p> <p>16:15-16:30 Germania Rodriguez and Jennifer Pérez. "Towards a Reference Software Architecture for Improving the Accessibility and Usability of Open Course Ware"</p> <p>16:30-16:45 Eduardo Silva. "Taming Missions and Architecture in Software Intensive Systems-of-Systems"</p> <p>16:45-17:00 Andrew Leigh. "Architecture Analysis to Predict Project Risks"</p>
	Tool Demos Session chair: Khalil Drira
	<p>17:00-17:15 Leo Pruijt, Wiebe Wiersema and Jan Martijn Van Der Werf. "Software Architecture Reconstruction Research Support as Provided by HUSACCT"</p> <p>17:15-17:30 Mohammad Sharaf, Moamin Abughazala, Henry Muccini and Mai Abusair. "CAPSim: Simulation and Code Generation based on the CAPS"</p> <p>17:30-17:45 Philip Wizenty, Jonas Sorgalla, Florian Rademacher and Sabine Sachweh. "MAGMA: Build Management-based Generation of Microservice Infrastructures"</p>
	Posters Session chair: Catia Trubiani
	<p>17:45-18:00 Mohammad Sharaf, Moamin Abughazala, Henry Muccini and Mai Abusair. "Simulating Architectures of Situational-Aware Cyber-Physical Space"</p>
18:00 -20:00	Reception and Posters (Grimond Foyer)

Thursday: 14 September

Main Track – Women in Software Architecture

Thursday, 14th September 2017	
8:30 - 9:30	Registration
9:00 - 10:30	Grimond LT1
	Session 3 - Architectural Decisions Session chair: Henry Muccini
	<p>9:00-9:35 Andrzej Zalewski, Klara Popławska and Andrzej Ratkowski. "On the Biases in Architecture Decision-Making"</p> <p>9:35-10:10 Stefan Haselböck, Rainer Weinreich and Georg Buchgeher. "Decision Models for Microservices – Design Areas, Stakeholders, Use Cases, and Requirements"</p> <p>10:10-10:30 Georg Buchgeher, Rainer Weinreich, Mario Winterer, Johannes Luger, Roland Wingelhofer and Mario Aistleitner. "Microservices in a Small Development Organization - An Industrial Experience Report"</p>
10:30 - 11:00	Break (Grimond Foyer)
11:00 - 12:30	Session 4 - Automatic Generation Session chair: Laurence Duchien
	<p>11:00-11:35 Mohammad Sharaf, Moamin Abughazala, Henry Muccini and Mai Abusair. "An Architecture Framework for Modelling and Simulation of Situational-Aware Cyber-Physical Systems"</p> <p>11:35-12:10 Manoj Bhat, Klym Shumaiev, Andreas Biesdorf, Uwe Hohenstein and Florian Matthes. "Automatic extraction of design decisions from issue management systems: a machine learning based approach"</p> <p>12:10-12:30 Narges Khakpour. "Control of Self-Adaptation under Partial Observation: A Modular Approach"</p>
12:30 - 14:00	Lunch (Rutherford Dinning Hall)

Thursday: 14 September

Main Track – Women in Software Architecture

14:00 - 15:30	Women in Software Architecture (WSA) 1 Session chair: Jennifer Perez Benedi and Raffaella Mirandola
	<p>Claudia Raibulet and Francesca Arcelli Fontana. "Evaluation of Self-Adaptive Systems: A Women Perspective"</p> <p>Patrizia Scandurra, Elvinia Riccobene, Silvia Bonfanti and Valentina Centurelli. "The female contribution in architecting a set of tools for a formal method"</p> <p>Fahimeh Alizadeh Moghaddam, Robert Deckers, Giuseppe Procaccianti, Paola Grosso and Patricia Lago. "A Domain Model for Self-Adaptive Software Systems"</p> <p>Elisa Yumi Nakagawa. "Software Architecture and Reference Architecture of Software-intensive Systems and Systems-of-Systems: Contributions to the State of the Art"</p> <p>Maria Spichkova, Heinz Schmidt and Catia Trubiani. "Role of women in Software Architecture: An attempt of a systematic literature review"</p>
15:30 -16:00	Break (Grimond Foyer)
16:00 - 17:00	Women in Software Architecture (WSA) 2 Session chair: Jennifer Perez Benedi and Raffaella Mirandola
	<p>Panel: the role of diversity in software architectures: current and future issues</p>
17:30 -19:00	Canterbury Walking Tour (Free)
19:00-21:00	Banquet Canterbury Cathedral Lodge

Friday: 15 September

Main Track

Friday, 15th September 2017	
8:30 - 9:30	Registration
9:30 - 10:30	Grimond LT1
	Keynote Session chair: Rogério de Lemos
	Peter Eeles (IBM UK) "How to Architect Anything"
10:30 - 11:00	Break
11:00 - 12:15	Session 5 - Software Architecture Practice Session chair: Antónia Lopes
	<p>11:00-11:35 Chen Yang, Peng Liang, Paris Avgeriou, Ulf Eliasson, Rogardt Haldal and Patrizio Pelliccione. "Architectural Assumptions and their Management in Industry - An Exploratory Study"</p> <p>11:35-11:55 Eoin Woods and Rabih Bashroush. "A Model for the Prioritization of Software Architecture Effort"</p> <p>11:55-12:15 Andrew Leigh, Michel Wermelinger and Andrea Zisman. "Software Architecture Risk Containers"</p>
12:15 - 12:30	Closing Session

Practical Information

Conference Proceedings

The proceedings for the ECSA 2017 main conference are available on SpringerLink from September 4 to October 4, 2017.

<http://link.springer.com/openurl.asp?genre=issue&issn=0302-9743&volume=10475>

Companion Volume

The proceedings for ECSA 2017 Doctoral Symposium, Tool Demos, Posters and Workshop papers are available from ACM ICPS.

<http://dl.acm.org/citation.cfm?id=3129790>

WiFi

You can use **eduroam** or connect to **WifiGuest**.

Social Events

Wednesday, 13 September

- Reception and posters in Grimond Foyer.

Thursday, 14 September

- Canterbury Walking Tour. This event is included in the registration fee, please make sure registration desk has your name. A bus will take delegates from the University Campus to the city centre.
- Banquet Canterbury Cathedral Lodge. This event is included in the registration fee, if you need further tickets, please contact the registration desk. A bus will bring delegates back to the University Campus at the end of the banquet.

Lunch

Wednesday and Thursday

- Lunch will be at the Rutherford Dining Hall (**K4** on the map, Grimond is **J6**)

Cafés

- Templeman Library (**J11** on the map, entrance just in front of Grimond **J6**)
- Gulbenkian (**J10** on the map)
- Caffè Nero (**J14** on the map)



