

Monday (22 May)

09:00-10:30 S1: Keynote 1: Siobhán Clarke [Chair: Bashar Nuseibeh]

11:00-12:30 S2: Requirements and Monitoring [Chair: Hausi Muller]

- L Antoine Cailliau and Axel van Lamsweerde. *Runtime Monitoring and Resolution of Probabilistic Obstacles to System Goals*
 - L Stepan Shevtsov, Danny Weyns and Martina Maggio. *Handling New and Changing Requirements with Guarantees in Self-Adaptive Systems using SimCA*
 - A Davi Monteiro Barbosa, Rômulo Gadelha de Moura Lima, Paulo Henrique Mendes Maia and Evilásio Costa Junior. *Lotus@Runtime: a tool for runtime monitoring and verification of self-adaptive systems*
-

14:00-15:30 S3: Learning and Prediction [Chair: Ilias Gerostathopoulos]

- L Pooyan Jamshidi, Miguel Velez, Christian Kästner, Norbert Siegmund and Prasad Kawthekar. *Transfer Learning for Improving Model Predictions in Highly Configurable Software*
 - L Gabriel A. Moreno, Alessandro Vittorio Papadopoulos, Konstantinos Angelopoulos, Javier Cámara and Bradley Schmerl. *Comparing Model-Based Predictive Approaches to Self-Adaptation: CobRA and PLA*
 - L Peter Pilgerstorfer and Evangelos Pournaras. *Self-adaptive Learning in Decentralized Combinatorial Optimization -- A Design Paradigm for Sharing Economies*
-

16:00-17:30 S4: Applications and Exemplars [Chair: Javier Cámara]

- L Cornel Barna, Hamzeh Khazaei, Marios Fokaefs and Marin Litoiu. *Delivering Elastic Containerized Cloud Applications to Enable DevOps*
- A Muhammad Usman Iftikhar, Gowri Sankar Ramachandran, Danny Weyns and Danny Hughes. *Applying Self-adaptation in Internet of Things using ActivFORMS*
- A Simos Gerasimou, Radu Calinescu, Stepan Shevtsov and Danny Weyns. *UNDERSEA: An Exemplar for Engineering Self-Adaptive Unmanned Underwater Vehicles*
- L Eric Lloyd, Shihong Huang and Emmanuelle Tognoli. *Improving Human-in-the-Loop Adaptive Systems Using Brain-Computer Interaction*

19.30-* Banquet [Place: <http://www.elmirasol.com.ar/es>]

Tuesday (23 May)

09:00-10:30 S5: Keynote 2: René Doursat [Chair: David Garlan]

11:00-12:30 S6: Planning & Decision Making [Chair: Nelly Bencomo]

L Gabriel A. Moreno, Sagar Chaki, Ofer Strichman and Radislav Vaisman. ***Decision-Making with Cross-Entropy for Self-Adaptation***

A Sanny Schmid, Ilias Gerostathopoulos, Christian Prehofer and Tomas Bures. ***Self-Adaptation Based on Big Data Analytics: A Model Problem and Tool***

S Ashutosh Pandey, Ivan Ruchkin, Bradley Schmerl and Javier Cámara. ***Towards a Formal Framework for Hybrid Planning in Self-Adaptation***

A Filip Krijt, Zbynek Jiracek, Tomas Bures, Petr Hnetynka and Ilias Gerostathopoulos. ***Intelligent Ensembles – a Declarative Group Description Language and Java Framework***

A Martina Maggio, Alessandro Vittorio Papadopoulos, Antonio Filieri and Henry Hoffmann. ***Self-Adaptive Video Encoder: Comparison of Multiple Adaptation Strategies Made Simple***

14:00-15:30 S7: Adaptation Strategies and Runtime Verification [Chair: Danny Weyns]

L Gustavo Sousa, Walter Rudametkin and Laurence Duchien. ***Extending Dynamic Software Product Lines with Temporal Constraints***

L Pascal Weisenburger, Manisha Luthra, Boris Koldehofe and Guido Salvaneschi. ***Quality-Aware Runtime Adaptation in Complex Event Processing***

L Yasuyuki Tahara, Akihiko Ohsuga and Shinichi Honiden. ***Formal Verification of Dynamic Evolution Processes of UML Models Using Aspects***

16:00-17:30 S8: Languages and Policies [Chair: Bradley Schmerl]

A Bo Zhang, Filip Krikava and Romain Rouvoy. ***Hadoop-Benchmark: Rapid Prototyping and Evaluation of Self-Adaptive Behaviors in Hadoop Clusters***

L Oliviero Riganelli, Daniela Micucci and Leonardo Mariani. ***Policy Enforcement with Proactive Libraries***

L Carlos Eduardo Da Silva, José Diego Saraiva Da Silva, Colin Paterson and Radu Calinescu. ***Self-Adaptive Role-Based Access Control for Business Processes***

17:30-18:00 Closing Remarks and SEAMS 2018 Presentation (30 mins) [Chair: David Garlan]