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 Gabriel A. Moreno, Alessandro Vittorio Papadopoulos, Konstantinos Angelopoulos, Javier Câmara 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*

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


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


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]