



International Workshop on

Control of Alternatives and Quality

held in conjunction with SPLC2019 - 23rd International Systems and Software Product Line Conference, Sept 9-13 2019, Paris, France

<https://ctrl-alt-q.github.io/2019>

TOPICS

Quality Assurance and Variability

- Quality-of-service of variability-aware systems
- Safety-critical configurable systems
- Cyber-security and configurable systems
- Performance, usability, energy consumption, resource limitations, strict real-time constraints, and, in general, any domain-specific quality attribute on configurable systems
- Testing functional and non-functional properties of configurable systems
- Case studies of configurable systems using variability models with quality attributes
- Metrics for quality attributes enabling alternatives exploration
- Theoretical or empirical validation of aggregated quality assurance
- Surveys, mapping studies, comparative analysis, and literature reviews
- Tools

Alternatives/Space Exploration

- Mono-criteria optimization of configurations
- Multi-criteria optimization of configurations
- Design alternatives exploration
- Architecture alternatives exploration
- Implementation alternatives exploration
- Tools to support alternatives/space exploration
- Case studies on specific domains

Quality Aspects across the Product Life-Cycle

- Inter-dependency analysis of quality attributes in variability-aware systems and Software Product Lines
- Product life-cycle and aggregated quality assurance of systems
- Early identification of quality attribute tradeoffs vs. expensive late detection
- Co-engineering regarding quality attributes in variability-aware systems and SPLs
- Quality-driven product configuration
- Organizational issues in dealing with several quality attributes
- Quality assessment activities in SPL development processes
- Quality assurance as part of regulations and standards conformance of configurable systems
- Criticality level comparison among system qualities
- Mediation techniques among system qualities inside organizations dealing with SPLs and configurable systems

Scenarios

- Quality aspects of self-adaptive systems and dynamic product lines
- Model-driven approaches for aggregated quality assurance and variability
- Simulation and aggregated quality assurance
- Testing and aggregated quality assurance

IMPORTANT DATES

Paper submissions: May 28, 2019

- Short or long papers (4 or 8 pages)

Paper notifications: June 18, 2019

Final version of papers: July 2, 2019

Workshop: 9 or 10 September 2019 TBD

SPLC 2019 Conference: 9-13 September 2019

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