



REBLS 2018

5TH WORKSHOP ON REACTIVE AND EVENT-BASED LANGUAGES & SYSTEMS
CO-LOCATED WITH SPLASH 2018

DEADLINES

Aug 17th - Submission
Sep 25th - Notification

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CALL FOR PAPERS

Reactive programming and event-based programming are two closely related programming styles that are becoming ever more important with the advent of advanced HPC technology and the ever increasing requirement for our applications to run on the web or on collaborating mobile devices. A number of publications on middleware and language design — so-called reactive and event-based languages and systems (REBLS) — have already seen the light, but the field still raises several questions. For example, the interaction with mainstream language concepts is poorly understood, implementation technology is in its infancy and modularity mechanisms are almost totally lacking. Moreover, large applications are still to be developed and patterns and tools for developing reactive applications is an area that is vastly unexplored.

We welcome all submissions on reactive programming, aspect- and event-oriented systems, including but not limited to:

- Language design, implementation, runtime systems, program analysis, software metrics, patterns and benchmarks.
- Study of the paradigm: interaction of reactive and event-based programming with existing language features such as object-oriented programming, mutable state, concurrency.
- Advanced event systems, event quantification, event composition, aspect-oriented programming for reactive applications.
- Functional-reactive programming, self-adjusting computation and incremental computing.
- Synchronous languages, modeling real-time systems, safety-critical reactive and embedded systems.
- Applications, case studies that show the efficacy of reactive programming.
- Empirical studies that motivate further research in the field.
- Patterns and best-practices.
- Related fields, such as complex event processing, reactive data structures, view maintenance, constraint-based languages, and their integration with reactive programming. IDEs, Tools.
- Implementation technology, language runtimes, virtual machine support, compilers.
- Modularity and abstraction mechanisms in large systems.
- Formal models for reactive and event-based programming.

<https://2018.splashcon.org/track/rebbs-2018-papers>

