

**8th Workshop on Software Engineering and Architectures for Realtime Interactive Systems**

23- or 24- of March in Arles, Camargue, Provence, France

In conjunction with IEEE Virtual Reality 2015

**SEARIS 2015**

**Description**

SEARIS provides a forum for researchers and practitioners working on the design, development, and support of realtime interactive systems (RIS). These systems span from Virtual Reality (VR), Augmented Reality (AR), and Mixed Reality (MR) environments to novel Human-Computer Interaction systems (such as multimodal or multitouch architectures) and entertainment applications in general. Their common principle is a strong user centric orientation which requires real-time processing of simulation aspects as well as input/output events according to perceptual constraints. Therefore, we encourage researchers and developers of real-time human computer interaction systems of all flavors to share their experiences and learn from each other during this workshop.

SEARIS wants to account the state-of-the-art in software design and software engineering for realtime interactive systems, to shape a common understanding, to compare systems and approaches and derive common paradigms, to develop useful and necessary methods and techniques, and to foster new ideas. Topics of interest include (but are not limited to):

- **Architectures**: data-flow-oriented, object-oriented, component-based, scene graph(s), etc.
- **Abstraction mechanisms**: entity centered design, world descriptions, semantic modeling
- **Reusability/Extensibility**: plugins, components, modules, extension points, etc.
- **RIS Programming**: class libraries, scripting & core implementation languages, declarative languages and solutions
- **System Issues**: operating systems, portability, networking, distribution, etc.
- **Adaptivity**: support of configurability, personalization, adaptation
- **Behavior**: support and integration of behavioral components (physics, AI, etc.)
- **Implementation and Testing** of Realtime Interactive Systems
- **Performance**: consideration of evaluation strategies, latency, synchronization, etc.

We highly welcome reflective and even controversial contributions.
Deadlines

- Abstract submission: January 9, 2015
- Short/long paper submission: January 23, 2015
- Notification of acceptance: February 9, 2015
- Camera-ready: February 20, 2015
- Workshop: March 23 or 24, 2015 (please check http://www.searis.net for updates)

Contributions

Following last years, contributions are planned to be included and indexed in the IEEE digital library.

**Research Papers** (6-8 pages)
Novel results in the field in the above mentioned categories related to RIS development.

**Short Papers** (up to 4 pages)
Preliminary results or work in progress.

**Position Paper** (6-8 pages)
Interesting and possibly controversial points of view of technical or technological advancements and approaches to foster a lively discussion at the event.

**State of the Art Reports** (6-8 pages)
Surveys on the main results in this field, which will allow us to understand and compare achievements and approaches in tackling RIS issues from the VR/AR/MR/HCI communities.

Papers must be written in English and follow the IEEE Computer Society format found at: http://www.cs.sfu.ca/~vis/Tasks/camera.html

Abstracts, full papers, and camera-ready versions have to be submitted electronically using the conference management tool found at the SEARIS website: http://www.searis.net/
Workshop Format

The SEARIS workshop will be a full-day event. Accepted authors for state of the art descriptions and discussion essays will present their ideas in a panel-like format. Accepted contributions for research papers will be organized in sessions consisting of presentations and discussions.

During panels we will encourage the active participation of the audience. We expect this structure to provide a more focused discussions and a lively environment. Presenters will be asked to prepare a slide presentation of their accepted contribution. The general audience of this workshop will receive the workshop’s program with a set of questions in advance, which will guide the discussion in each topic’s panel.

Organizers

- Marc Erich Latoschik, University of Würzburg, Germany
- Dirk Reiners, University of Louisiana, Lafayette, USA
- Roland Blach, Fraunhofer IAO, Stuttgart, Germany
- Pablo Figueroa, Universidad de los Andes Bogota, Colombia

Contact

- SEARIS email address (all co-organizers): searis@searis.net
- SEARIS web: http://www.searis.net/

Program Committee

–to be confirmed–

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Pablo Figueroa (Universidad de los Andes Bogota, Colombia)
Marc Erich Latoschik (University of Würzburg, Germany)
Jean-Luc Lugrin (University of Würzburg, Germany)
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