

HCSE + HESSD 2016

6th International Working Conference on Human-Centred Software Engineering
8th International Working Conference on Human Error, Safety, and System Development

KTH, Stockholm, Sweden August 29th–31st, 2016



WG 13.2: Methodologies for User-Centered Systems Design
WG 13.5 Resilience, Reliability, Safety and Human Error in System Development

HCSE and HESSD are IFIP TC 13 working conferences that bring together researchers and practitioners. For the first time, they will be jointly organized by IFIP Working Groups WG 13.2 and WG 13.5. HCSE is targeted towards user interface design, combining software engineering and human-computer interaction and integrating human-centered design with software engineering processes. HESSD is concerned with the role and impact of human error in design, management and operation of safety-critical systems and leading edge techniques for mitigating the impact of human error in complex systems.

Topics of HCSE interest include, but are not limited to:

- contributions to the theory and best practices of user-centered design
- design and architectural patterns for inter-active systems
- involvement of end-users, clients and stakeholders in the development process of interactive systems
- innovative methods for identifying end-user requirements for interactive systems
- integration of user experience in development processes
- methods for designing, building and assessing interactive systems beyond the desk-top (e.g. the living room, ubiquitous and multi-display, cockpits, etc.)
- models and model-based approaches for building interactive systems
- integration of multiple properties (e.g. usability, security, reliability, user experience, privacy, accessibility, etc.) in software development
- socio-technical aspects of interactive software development
- software architectures for interactive systems
- rational design and traceability of design choices.

Topics of HESSD interest include, but are not limited to:

- risk-based approaches to critical inter-active systems and infrastructure security
- reliability and dependability of interactive systems
- accident investigation and 'lessons learned' techniques
- designing for human error forecasting, prevention, tolerance and removal
- techniques for analyzing technical failure as well as human and managerial 'error'
- usability in safety-critical systems
- management of conflicting properties for the design, development and operation of critical systems
- from design and development to training of operators
- collaboration and collaborative systems as dependability mechanism for command and control systems
- automation design, function allocation and task migration as design option for dependable operations.

Submissions are solicited in the following categories:

Technical full papers (up to 20 pages) should describe substantial research contributions of novel work that has produced advanced results including validation of results. Late Breaking Results short papers (up to 12 pages) should present work in progress, new practice and experience reports containing good (and bad) practices and/or recent practical evaluations of methods, techniques and tools.

Demonstration and Poster submissions

(5–8 pages, plus poster design draft for the latter) should present ongoing work and/or late breaking results related to the use of innovative tools and cutting-edge systems not described in other paper submissions. Demonstration papers should provide description of tools including user tasks and evidence of use to end-users.

They should summarize the system's significance and its performance and should either include screenshots or link to an online-accessible resource. The poster design draft should show the planned design and content of the poster that will be presented at the conference. Industry contributions to demos and posters are particularly welcome and highly encouraged.

All accepted submissions will be presented in the joint conference program of HCSE + HESSD 2016 and published in the conference proceedings. It will be possible for authors of accepted Technical full papers and Late Breaking Results short papers to give tool demos as well without submitting additional demo papers.

All submissions must be formatted according to the guidelines of the Lecture Notes in Computer Science (LNCS) series of Springer that are available at: <http://www.springer.com/computer/lncs?S-GWID=0-164-12-73062-0>. Authors are requested to prepare submissions as close as possible to final camera-ready versions. Prior abstract submission by the given due date for Technical full papers and Late Breaking Results short papers is mandatory.

Reviews: All submissions will be peer-reviewed for their topical relevance, originality, technical contribution, and presentation quality by the members of the international program committee. For poster submissions, both paper and poster design draft will be assessed for review. It will be possible for the program committee to suggest accepting submissions in other than their original submission categories.

The submission and review process is managed in EasyChair using the installation: <https://www.easychair.org/conferences/?conf=hcsehessd2016>

Proceedings will be published by Springer in the Lecture Notes in Computer Science (LNCS) series. All submissions must be prepared according to the Springer LNCS format.

Important Dates (Technical full papers & Late Breaking results short papers)

<i>April 11, 2016</i>	<i>Abstract submission</i>
<i>April 18, 2016</i>	<i>Paper submission</i>
<i>May 20, 2016</i>	<i>Author notification</i>
<i>June 27, 2016</i>	<i>Final paper submission</i>

Important Dates (Demonstration and Poster submissions)

<i>May 17, 2016</i>	<i>Demo and poster submission</i>
<i>June 15, 2016</i>	<i>Author notification</i>
<i>June 27, 2016</i>	<i>Final paper submission</i>

Venue & Organization: HCSE+HESSD 2016 will be held at the KTH Royal Institute of Technology in Stockholm, the capitol city of Sweden.

Organizers:

General Conference Chairs:

Cristian Bogdan, KTH – Royal Institute of Technology, Stockholm, Sweden

Jan Gulliksen, KTH – Royal Institute of Technology, Stockholm, Sweden

Technical Program Chair:

Stefan Sauer, Paderborn University & Software Innovation Campus Paderborn, Germany

HCSE Technical Paper Chairs:

Peter Forbrig, University of Rostock, Germany

Marco Winckler, ICS-IRIT, Université Paul Sabatier, Toulouse, France

HESSD Technical Paper Chairs:

Chris Johnson, School of Computing Science, University of Glasgow, Scotland

Philippe Palanque, ICS-IRIT, Université Paul Sabatier, Toulouse, France

Demos and Posters Chair:

Regina Bernhaupt, ICS-IRIT, Université Paul Sabatier, Toulouse, France

Filip Kis, KTH – Royal Institute of Technology, Stockholm, Sweden

Proceedings Chair:

Stefan Sauer, Paderborn University & Software Innovation Campus Paderborn, Germany

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