

Call for Papers · SeAC 2021

AT ACSOS 2021, SEPTEMBER 27TH - OCTOBER 1ST, WASHINGTON DC, USA (OR VIRTUAL)

🏠 seac2021.informatik.uni-wuerzburg.de

Important Dates & Info

The workshop on self-aware computing (SeAC) provides a forum to foster interaction and collaborations between the respective research communities, raising the awareness about related research efforts and synergies that can be exploited to advance the state of the art. The workshop was initiated by the 2015 Dagstuhl Seminar 15041 on model-driven algorithms and architectures for self-aware computing systems, which brought together 45 international experts.

Paper submission deadline	July 09th, 2021
Talk submission deadline	July 09th, 2021
Author notification	July 31st, 2021
Final Manuscript (paper)	August 13th, 2021
Workshop Day	September 27th
or	October 1st, 2021

List of Topics

This workshop is interested in all the topics concerning self-aware computing systems. Please find below several examples of possible topics:

- Fundamental science and theory of self-aware systems
- Levels and aspects of self-aware systems
- Architectures for individual and collective systems
- Methods and algorithms for model learning (self-modeling) and reasoning
- Self-adaptation in individual and collective systems
- Synthesis and verification metrics and benchmarks
- Tool support for evaluation and measurements, and quality assurance
- Open challenges and future research directions
- Ethical concerns in self-aware computing
- Applications and case studies: cloud computing, cyber-physical systems, data centers, dependable computing, industrial internet / industry 4.0, internet of things, mobile computing, service-oriented systems, smart buildings, smart city, smart grid / energy management, smart factory, traffic management, autonomous robotics, and space applications.

Submission Guidelines

The workshop participants will be selected based on their experience and ideas related to the field of self-aware computing. There are two ways to participate: i) present a talk without a respective paper published in the workshop proceedings, ii) submit a paper to be presented at the workshop and published in the workshop proceedings. We solicit the following types of contributions:

- **Full workshop paper** limited to 6 pages (double column, IEEE format, including references)
- **Short workshop paper** limited to 4 pages (double column, IEEE format, including references)
- **Talk extended abstract** limited to 1 page (without formatting restrictions)

Contributions in the 1st and 2nd category (technical papers) must represent original and unpublished work that is not currently under review. Full papers may report on original research, lessons learned from realizing an approach, or experiences on transferring a research prototype into practice. Short papers may report on work-in-progress or present a vision or (controversial) position motivating the community to address new challenges. Contributions in the 3rd category may present ideas in their very first stage or a (controversial) opinion. Papers will be reviewed by three PC members and judged on originality, significance, interest, correctness, clarity, and relevance to the broader community. At least one author of each accepted submission is required to attend the workshop. Technical papers will be published by IEEE Computer Society Press and made available as a part of the IEEE Xplore Digital Library. In addition, papers will be part of the ACSOS conference proceedings. Technical papers should follow the double column, IEEE format and need to be submitted electronically via EasyChair. Extended abstracts need to be submitted as “abstract” submissions via EasyChair. Submission can be done via EasyChair: <https://easychair.org/conferences/?conf=seac2021>

Organization

- **Christian Krupitzer**, University of Hohenheim, Germany, christian.krupitzer@uni-hohenheim.de
- **Claudia Raibulet**, Università degli Studi di Milano-Bicocca, Milan, Italy, claudia.raibulet@unimib.it
- **Veronika Lesch**, University of Würzburg, Germany, veronika.lesch@uni-wuerzburg.de (Web and Publicity Chair)