

# AVIOSE19 - 1st Workshop on Software Engineering for Avionics Systems

*February 19, 2019, Stuttgart, Germany*

Software development in the aerospace domain is driven by increasing complexity, new application potentials, and rising certification effort. Future applications demand for new software development methodologies, e. g. autonomous air transport and commercial UAVs and further enhancement of existing functionality. At the same time, there are issues in communication and navigation in airspace, multi-core processors or artificial intelligence. The objective of the workshop is the exchange of new software engineering methods and tools within the avionics domain.

## Topics (but not limited to):

- **Development technologies:** Requirements engineering, modelling languages and tools, transfer of modelling techniques to industrial application, verification via testing and formal methods, security & safety
- **Development methods:** Certification, agile development, interaction with other domains (e. g. physics, psychology)
- **Product technologies:** Applications of artificial intelligence (including verification), autonomous systems
- **Additional challenges:** Reference architectures for hard- and software and interfaces between sub-systems, sensors and sensor fusion, Integrated Modular Avionics (IMA), obsolescence (management)

## Important dates:

- **Jan 13, 2019 → Extended paper submission deadline**
- Jan 25, 2019 → Paper acceptance notification

Further information and registration:

[https://aviose2019.github.io/index\\_en.html](https://aviose2019.github.io/index_en.html)

Co-located with the

SE | 19

**Combined  
Conference  
Software  
Engineering &  
Management 2019  
(SE19)**

18.-22. of February  
2019

<https://se19.uni-stuttgart.de/en/index.html>

## Short info:

- Short or full paper
- Peer-review by international academic and industrial committee
- CEUR-WS publication

