



AVIOSE'21



3rd Workshop on Avionics Systems and Software Engineering
February 23, 2021, Virtual Conference

Software development in the aerospace domain is driven by demanding fault tolerance, increasing complexity, new application potentials, rising certification effort, and increasing cost pressure. Future applications request for new software development methodologies, e.g., autonomous air transport, aircrew workload reduction, commercial UAVs, and further enhancement of existing functionality. At the same time, there are challenges in communication and navigation in airspace, certification for multi-core processors, artificial intelligence as well as security of software, hardware, and connectivity.

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:** Agile development vs. certification, interaction with other domains (e. g. physics, psychology)
- **Product technologies:** Applications of artificial intelligence (including verification and certification), autonomous systems, sensors, sensor fusion, sensor management, Integrated Modular Avionics (IMA), Human-Machine-Interface (HMI)

Modalities:

- Virtual conference
- Language: English
- Short paper (4 pages) or full paper (8 pages)
- Peer-review by international committee
- CEUR-WS publication
- Excellent papers can be proposed for the *CEAS Aeronautical Journal!*
- Keynotes and panel session

Dates:

- Nov 30, 2020 → Paper submission
- Dec 12, 2020 → Paper acceptance
- Jan 20, 2021 → Final manuscript

Further information and registration:
<https://aviose-workshop.github.io/>

Co-located with:



Supported by:



22.-26. of February 2021, <https://se-2021.tu-bs.de/>