

Safe Autonomous Flight (Munich, Germany)

We invite applications for an EU funded post-doctoral researcher position in the field of safe autonomous flight. The successful candidate is expected to develop, implement and deploy a combination of off-line planning and on-line safety verification and conflict resolution algorithms to formally guarantee safety of UAVs that fully autonomously operate in densely populated airspace. Results are to be practically evaluated in our indoor UAV lab.

Required qualifications:

- PhD degree in Systems and Control, Mechatronics, Electrical Engineering, or a related field. Exceptionally qualified and experienced candidates with an MSc degree will also be considered.
- Solid experience in modeling and identification of, and in designing low- and high-level feedback controllers for, aerial vehicles such as quad-rotors.
- Efficient communication skills in English.

Additionally, experience in one of the following fields would be an advantage: multi UAV-scenarios; occupancy prediction; conflict detection and resolution strategies; formal methods; large-scale research projects.

The position is full-time and paid according to pay scale “TVOeD Bund, E 14”. Actual income depends on marital status and professional experience, and starts from EUR 30750 net p.a. (E-13/EUR 28850 for applicants with an MSc degree). Reimbursement for travel expenses to conferences. No teaching load. The position is available immediately and for a duration until April 2023. It is open to applicants worldwide; no special security clearance necessary.

Your complete application consists of the following documents, which should be sent *as a single PDF file* to the email address given below (deadline: July 17, 2020): CV; one-page cover letter (clearly indicating available start date as well as relevant qualifications, experience and motivation); university certificates and transcripts (BSc, MSc and PhD degrees); up to three letters of recommendation; list of publications; possibly an English language certificate. All documents should be in English or German.

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