

Formal methods in control (Munich, Germany)

We invite applications for an EU funded post-doctoral researcher position in the field of formal methods in control. The successful candidate is expected to advance the state of the art of abstraction-based synthesis and verification for nonlinear continuous-state plants and to extend existing synthesis software. Depending on background and interests of the candidate, possible research foci are: automated determination of error bounds for floating-point implementations of numerical algorithms; parallelizable on-the-fly synthesis algorithms; adaptive state discretization; input-output interface of synthesis software.

Required qualifications:

- PhD degree in Systems and Control, Computer Science, Mathematics, or a related field. Exceptionally qualified and experienced candidates with an MSc degree will also be considered.
- Solid experience in one of the following fields: Set-valued numerics; validated floating-point arithmetic; dynamic programming; formal methods in control.
- Programming proficiency (C or Ada).
- Efficient communication skills in English.

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 33000 net p.a. (E-13/EUR 31000 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 28, 2021**): 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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