The Automation and Control Institute (ACIN) at TU Wien is offering the following

Postdoc-Position (m/f/d): „Intelligent Process Control“

What you'll be doing

In the Complex Dynamical Systems Group (Prof. Andreas Kugi) and in close cooperation with an internationally active, industrial research partner you will develop new methods for modeling, monitoring, control, and optimization of industrial production processes. An application focus of the research is on production processes in the steel industry.

Research topics

- Data-driven and physics-informed modeling and system identification of production processes
- Data-based estimation and soft-sensing of non-measurable system quantities
- nonlinear and optimization-based control of complex dynamical processes
- Adaptive control methods in combination with machine learning
- Optimization-based design of production processes, production plants, and experiments
- Realization, validation, and test on production processes in the steel industry

Your profile

- Successful completion of a PhD degree in the relevant field
- Experience in academic research and teaching, willingness to supervise students
- Commitment to high performance
- Motivation and ability to initiate research projects and to acquire third-party funding
- Team spirit, strong communication skills, goal orientation, structured, and responsible way of working
- Very good command of written and spoken English, basic skills in German favorable

We offer

- Future-oriented research and innovative solutions for the latest problems
- Scientific freedom and opportunities for independent developments in a research area
- Promotion of your scientific career
- Dialog, and cooperation in a motivated and interdisciplinary team
- Cooperation with a renowned, internationally active, industrial research partner
- Secured funding and well equipped infrastructure and laboratories
- Employment contract for 2 to 3 years (40 hours a week) with option for extension
- Gross salary of € 70.200,20 p.a.

We are committed to increasing the proportion of women in our research group. Therefore, female applicants are explicitly encouraged to apply. Preference will be given to women when equally qualified.

We try to hire people with special needs and explicitly encourage them to apply.

We are looking forward to receiving your application including the usual documents (at least CV, list of publications, description of teaching activities, transcript of records, graduation certificates) via e-mail sent to Andreas Steinböck (e-mail: steinboeck@acin.tuwien.ac.at). In case of questions, please also contact this address.

About us

The Automation and Control Institute (ACIN) belongs to the Faculty of Electrical Engineering and Information Technology of TU Wien. At ACIN, more than 50 researchers conduct basic research, solve challenging practical problems, cooperate with industrial research partners, develop innovations, and offer students excellent academic teaching in the fields systems theory, automation, and control engineering. More info at https://www.acin.tuwien.ac.at/komplexe-dynamische-systeme-cds/.