Job posting

Type of position

☒ scientific
☐ administrative

Target group

☒ graduates
☐ post docs
☐ other

Title
Several positions in the PhD program “Advanced Optimization in a Networked Economy”

Institution
Technical University of Munich, Research Training Group “Advanced Optimization in a Networked Economy” (AdONE)

Position
About us
The challenges of a networked economy are fundamental and necessitate new research at the intersection of management science, computer science, and mathematics. New computational techniques are needed to solve large-scale optimization problems and to handle large data sets; incentive structures have to be considered in situations with multiple decision makers; uncertainties and other dynamics in the parameters of resource allocation problems require new modeling tools and solution strategies. The research program focuses on important application-oriented projects that would benefit from an interdisciplinary approach, including shared mobility, resource pooling, retail coordination, sales and operations planning, IT management, and airport operations.

Responsibilities
We offer
Students with a background in applied mathematics, computer science, industrial engineering, operations management, operations research, or a related field and a strong interest in interdisciplinary work will be offered a comprehensive study, training, and research program. Custom-made PhD projects will help to develop the ability to model, analyze, solve, and implement solutions for challenging real-world problems. A description of some projects, participating researchers, and further information regarding the application process is available at our website http://www.gs.tum.de/adone/application/

TUM strives to raise the proportion of women in its workforce and explicitly encourages applications from qualified women. Applications from disabled persons with essentially the same qualifications will be given preference.
### Requirements
Your qualifications
We expect a degree in Management, Economics, Industrial Engineering, Computer Science, Mathematics or a related field and experience with Operations Research methods. Further, excellent written and verbal communication skills in English are required.

### Application procedure (deadline etc.)
Applications in English should include:
- Cover letter
- CV
- Copies of earned university degrees and transcripts of individual grades
- Writing sample
- Research proposal (about 2 pages) motivating your specific interest in "Advanced Optimization in the Networked Economy"
- One letter of recommendation and the names and e-mail addresses of two further referees (university professors)

and be submitted in digital form (one pdf document) to adone@tum.de by March 15th, 2020. For the written application, we request to submit only copies of official documents, as we cannot return materials after completion of the application process.

### Contact
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