Research Topics

Topics of the interdisciplinary research are new approaches for discrete optimization under uncertainty and their use for the optimization of technical systems in particular from the areas logistics, chemical production techniques and IT systems. One key aspect is the development of new application oriented methods and the inclusion of human decision makers as part of the optimization process.

The research program is based on associated projects. An overview of the research projects can be found under gkdots.tu-dortmund.de. Research is done in interdisciplinary research groups and is accompanied with a qualification program offering training in technical and soft skills. The program is completed by scientific talks of international researchers and a short stay at a foreign university or research institute to support the integration in the internal research community.

Requirements

Applicants for the PhD positions should hold an excellent master/diploma degree in computer science, mathematics, engineering or psychology and have to be interested in interdisciplinary and application oriented research. Basic knowledge in optimization and modeling are helpful. Good English language skills are mandatory. PhD candidates should finish their dissertation within the time frame of 3 years.

The Dortmund University of Technology aims to increase the percentage of women in the involved faculties and therefore applications from women are particularly welcome.

The same applies to qualified disabled people.

PhD candidates

Contracts are given until 31.03.2018, starting 01.10.2016 or 01.01.2017. After a successful evaluation of the graduate school, contracts can be extended to a maximal duration of 3 years. The salary follows the regulations of the collective bargaining law in salary class 13 TV-L or, if applicable, by transitional law (TVÜ-L). These are full-time positions. The positions are, in principle, also appropriate for part time employment.

Application should include the relevant documents (curriculum vitae, list of publications if available, certificates of academic qualifications), a reference letter written by a professor and an accompanying statement mentioning one or two research projects where the applicant wants to do her or his dissertation.

Applications enclosing the usual material may be sent until 04.07.2016 under reference number w36-16 to:

Technische Universität Dortmund
Prof. Dr. Peter Buchholz
Fakultät für Informatik
LS Informatik 4
TU Dortmund
D 44221 Dortmund
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Email: peter.buchholz@tu-dortmund.de

Additional information about the research training group and the research areas can be found under gkdots.tu-dortmund.de.

Dortmund, 23.05.2016