

## APPLIED MATHEMATICS

### **Algorithms in game theory**

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study form: full time

Annotation: The doctoral student will have an opportunity to get acquainted with the newest trends in the area of Computational Social Choice and solve the newest open problems in voting theory, resource allocation or matching under preferences. We intensively use the language and methods of graph theory; the most relevant areas of theoretical computer science are the design and analysis of exact and approximate algorithms and the analysis of their computational complexity. The topic is suitable also for graduates in Informatics.