

Algorithmic Aspects of Manipulating Elections

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School of Physical and Mathematical Sciences

Voting and elections are at the core of democratic societies. People vote to elect leaders, decide policies, and organize their lives but elections also have natural applications in computer science where agents in multi-agent systems often need to reach a common decision. However, elections can be manipulated in multiple ways, e.g., voters may act dishonestly, election's chair might try to rag them via procedural tricks and some voters might be bribed. In this talk, I will give an algorithmic perspective on manipulating elections and attempts to protect elections via computational complexity.

Speaker Biography

Piotr Faliszewski is an assistant professor at the Department of Computer Science of the AGH University of Science and Technology in Krakow, Poland. He received his Ph.D. degree (2009) from the University of Rochester, where he worked under the supervision of Prof. Lane A. Hemaspaandra. Piotr's scientific interests include computational social choice, algorithms, computational complexity and game theory.

Host: Dr. Edith Elkind, Division of Mathematical Sciences, School of Physical and Mathematical Sciences

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