

Score aggregation in social choice



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Time : 10:30 a.m. – 11:30 a.m.

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The Hong Kong Polytechnic University

► Abstract

In a score aggregation system, several agents give scores to a set of candidates independently, and we are going to combine the individual scores to get a final score for each candidate. This is a fundamental problem with a broad range of applications in social choice and many other areas. The simple and commonly used method is to sum up (or average) all scores of each candidate. In this talk, we will give good algebraic and geometric explanations for score aggregation, and introduce a new aggregation model based on the spectral method.

Some parts of the talk are based on the joint work with Yuqing Wang presented on IJCAI 2017.

► About the Speaker

Mingyu Xiao is a professor and vice dean in the school of computer science and engineering, University of Electronic Science and Technology of China. He received his Ph.D in computer science from the Chinese University of Hong Kong under the supervision of Andrew Yao and Leizhen Cai in 2008. His research interests include: design and analysis of algorithms, optimization, and graph theory. He has published more than 50 papers in JCSS, I&C, Algorithmica, IJCAI, AAI and many other reputable journals and conferences.

All are welcome!

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