

Ranking Systems

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Abstract

This talk will survey our recent work in applying the axiomatic approach to ranking systems. Ranking systems are systems in which agents rank each other to produce a social ranking. In the axiomatic approach we study ranking systems under the light of basic properties, or axioms. In this talk I will present our axiomatization theorem for the PageRank ranking system, prove an impossibility and possibility result for general ranking systems, and discuss the issue of incentives in ranking systems. Finally, I will show initial results regarding personalized ranking systems, where a specialized ranking is generated for each agent. Joint work with Alon Altman.

References

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