MATTHIAS TAKOUDA, Laurentian University

Rankings and Doubly Stochastic Matrices

We present an approach to group decision-making where solutions to doubly stochastic matrix approximation problems are used to determine a ranking on a set of alternatives, only known a posteriori, that aggregate preferences or opinions of various experts. The proposed approach is applied in real life settings, where Alternating Projections and Douglas-Rachford feasibility methods are used.