Semi-discrete principal-agent problem

Xavier Dupuis*

xdupuis@luiss.it

The principal-agent problem describes a principal economic agent willing to contract with a population of heterogeneous agents. It has several connections with optimal transportation. Its semi-discrete version consists in a continuous distribution of agents (source measure) and a discrete distribution of products contracted (unknown target measure). With J-D. Benamou (Inria Paris), using codes developed by Q. Mérigot (Université Paris-Dauphine) for semi-discrete optimal transportation, we investigate numerically this problem.

*Department of Economics and Finance, LUISS Guido Carli, Viale Romania, 32, 00197 Roma, ITALY