



ALEXIS TSOUKIÀS

VISITING PROFESSOR

CNRS-LAMSADE, PSL UNIVERSITY, UNIVERSITÉ PARIS



LECTURE SERIES

DECISION AIDING FOR POLICY DESIGN AND EVALUATION

a cura di

Alessandra Oppio, DASTU Politecnico di Milano

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PIAZZA LEONARDO DA VINCI, 26

ORE 14⁰⁰ - 16⁰⁰

Preference aggregation.

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From Borda and Condorcet
to Arrow's theorem.

Trade-offs and power indices.

In this talk we focus upon the preference aggregation problem: supposing having a set of preference relations applied upon a given set A , how these can be aggregated to a single overall binary relation? Which properties can be satisfied and which are the ones we want to be satisfied? Under which conditions such an aggregated preference relation has a numerical presentation? We introduce the archetypes of the Borda and Condorcet preference aggregation procedures and we show Arrow's impossibility theorem. We then show why second order preference relations are not primitives and how can be constructed out of multi-attribute preference profiles.

WELCOMING & INTRODUCTION

Alessandra Oppio, DASTU Politecnico di Milano

DISCUSSANT

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DIPARTIMENTO DI ARCHITETTURA
E STUDI URBANI

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