OPINION FORMATION MODELS

Lecture 1: INTRODUCTION.
Introduction to Complex Systems. Physics and Emergence. Elements that define it. How it is modeled. The Standing Ovation Problem. Tools for modeling Complex Systems: ABM - Networks - Master Equations. The Granovetter model. Applications to the Granovetter model.

Lecture 2: DISCRETE OPINION MODELS
Introduction to opinion models. Sociological theories and mechanisms. Different approaches. Discrete opinion models. Voter Model: Ingredients, Master equations. Applications.

Lecture 3: CONTINUOUS OPINION MODELS
Continuous models: De Groot – Deffuant – Negative Influence – Mas & Flaché. PAT Models. Applications

Lecture 4: MULTIDIMENSIONAL OPINION MODELS
Introduction to multidimensional models. The Axelrod cultural model. Theoretical approaches. The Baumann model: correlations and ideological states. Applications.