

October 26–29, 2021 | Online

# Mean Field Games on Networks Workshop

Mean Field Game (MFG) theory studies strategic decision problems in large populations of interacting agents, which is now widely applied in economics, financial markets, engineering, social science, and many other areas. The generalization of classical mean field game theory to the study of problems on networks that exhibit heterogeneity, bounded local connections, dynamic dependence, and uncertainties in structure is extremely important in terms of theoretical development and practical applications; it is the focus of the proposed workshop.

The objective of this workshop is to bring together researchers in applied mathematics, mean field games, network science, network games, and systems and control theory to exchange ideas and to work on the extensions of mean field game theory to dynamic game problems on heterogeneous large-scale networks. The expected outcome of the workshop is the significant development of the subject and consequently its enhanced progress in terms of mathematical theory, computational algorithms, and the applications methodologies of MFG on general networks. The workshop will offer a platform to present current results and stimulate discussions on the open challenges in this emerging field.

## CONFIRMED SPEAKERS

**Tamer Basar**, University of Illinois  
**Dario Bauso**, University of Groningen  
**Erhan Bayraktar**, University of Michigan  
**René Carmona**, Princeton University  
**Fabio Coppini**, University of Florence  
**François Delarue**, University of Nice-Sophia  
**Peter E. Caines**, McGill University  
**Rinel Foguen Tchuendom**, McGill University  
**Levon Nurbekyan**, University of California Los Angeles  
**Shuang Gao**, McGill University  
**Francesca Parise**, Cornell University  
**Minyi Huang**, Carleton University  
**Manh-Khang Dao**, LMI, INSA de Rouen  
**Daniel Lacker**, Columbia University  
**Mathieu Laurière**, Princeton University  
**Olivier Ley**, Institut de Recherche Mathématique de Rennes  
**Roland Malhamé**, Polytechnique Montréal  
**Yaroslav Saliı̄**, McGill University  
**Joao Saude**, Systems and Robotics Institute in Lisbon  
**Qingshuo Song**, Worcester Polytechnic Institute  
**Agathe Soret**, Columbia University  
**Ruoyu Wu**, Iowa State University

For more information and to register:

<https://www.pims.math.ca/scientific-event/211026-mfgnw>