

# Faculty Club - December 4, 2020

12:00 - 1:30 pm, Multimedia presentation (45 min) with detailed discussion

Prof. Iyad Rahwan, Max Planck Institute for Human Development

## *Experiments in Machine Behavior: Cooperating with and through machines*

Human cooperation is fundamental to the success of our species. But emerging machine intelligence poses new challenges to human cooperation. This talk explores two interrelated problems: How can we humans cooperate *through* machines - that is, agree among ourselves on how machines should behave? And how can we cooperate *with* machines - that is, convince self-interested machines to cooperate with us. The talk will then propose an interdisciplinary agenda for understanding and improving our human-machine ecology.



Iyad Rahwan holds a PhD in Information Systems (Artificial Intelligence) from the University of Melbourne, Australia and is a director of the Max Planck Institute for Human Development in Berlin, where he founded and directs the Center for Humans & Machines. He is an honorary professor of Electrical Engineering and Computer Science at the Technical University of Berlin. From 2015 until 2020, he was an Associate Professor of Media Arts & Sciences at the Massachusetts Institute of Technology (MIT). Rahwan's work lies at the intersection of computer science and human behavior, with a focus on collective intelligence, large-scale cooperation, and the societal impact of Artificial Intelligence and social media. Through a series of projects, he also exposed tens of millions of people worldwide to new implications of AI, such as bias in machine learning, human-AI creativity and the ability of AI to induce fear and empathy in humans at scale. Another theme that interests Rahwan is the future of work and human-machine cooperation. He demonstrated the world's first human-level strategic cooperation by an AI,

and innovated new methods to anticipate the potential impact of AI on human labor. Iyad Rahwan's work appeared in major academic journals, including Science, Nature and PNAS, and features regularly in major media outlets, including the New York Times, The Economist, and the Wall Street Journal.

## Registration

Please send an informal e-mail to [facultyclub@ers.rwth-aachen.de](mailto:facultyclub@ers.rwth-aachen.de) by Monday, 30 November 2020.

The lecture with subsequent discussion will be held via zoom conference.