

IIASA-MABM workshop

Program

Day 1 – Thursday 18 April 2024

13:00–14:15	Registration
14:15–14:30	Welcome words Sebastian Poledna, Celian Colon, Luca Fierro
14:30–15:30	Keynote I Herbert Dawid, Bielefeld University <i>The quest for unified behavioral rules in (macro-economic) agent-based models</i>
15:30–16:00	Coffee break // open-laptop session I
16:00–17:30	Research Institute session Chair: Sean Dougherty, OECD Serguei Kaniovski, Austrian Institute of Economic Research (WIFO) <i>Leveraging microdata in agent-based modelling for impact assessment</i> Christian Kimmich & Klaus Weyerstrass, Institute for Advanced Studies Vienna (IHS) <i>Economic impact of reduced labor productivity due to heat stress</i> Yeonhee Lee, Electronics and Telecommunications Research Institute (ETRI) <i>Creating a fiscal economy digital twin using agent-based macroeconomic models: Challenges and opportunities</i>
18:00–18:30	Bus
18:30–22:00	ETRI Dinner

Day 2 – Friday 19 April 2024

09:00–09:30	Morning coffee
09:30–10:30	<p>Implementation session Chair: Sebastian Poledna, IIASA</p> <p>Aldo Glielmo, Bank of Italy <i>A fast and modular Julia package for macroeconomic simulations: solid foundations for a world of extensions</i></p> <p>Amit Gill & Maddegedara Lalith, Earthquake Research Institute, The University of Tokyo <i>HPC-enhancement and infrastructure integration of an agent-based economic model for 1:1 scale, end-to-end simulation of disaster and economy</i></p> <p>Sina Shahandeh, The Markets Replica Project <i>The Path for Building a Digital Twin of the Global Economy</i></p>
10:30–11:00	Coffee break // open-laptop session II
11:00–12:30	<p>Academic session Chair: Luca Fierro, IIASA</p> <p>Nikita Strelkovskii, IIASA <i>Economic and Labour Market Impacts of Migration in Austria: An Agent-Based Modelling Approach</i></p> <p>Luca Riccetti and Jacopo Di Domenico, University of Macerata <i>Italian economy, scale and long-run analyses</i></p> <p>Samuel Wiese, INET Oxford <i>Calibration of a Large-Scale Economic ABM</i></p>
12:30–14:00	Lunch
14:00–15:00	<p>Keynote II</p> <p>Yang Zhang, Bank of Canada <i>Understanding Post-Pandemic Era Inflation in a Complex Evolving Economy</i></p>
15:00–16:00	<p>Central Bank session Chair: Celian Colon, IIASA</p> <p>Adrián Carro Patiño, Bank of Spain <i>The impact of prudential regulations on the UK housing market and economy: Insights from an agent-based model</i></p> <p>Balázs Világi, Hungarian Central Bank (MNB) <i>Mini CANVAS – The analytical properties of a simplified version of the CANVAS model</i></p>
16:00–16:30	Concluding Remarks