

05-06 DECEMBER 2019

CAMPUS WU
VIENNA UNIVERSITY OF
ECONOMICS AND BUSINESS

BUILDING AD, CONFERENCE ROOM 1
WELTHANDELSPLATZ 1, 1020 VIENNA

INTERNATIONAL WORKSHOP ON

HETEROGENEOUS DYNAMIC MODELS OF ECONOMIC AND POPULATION SYSTEMS

The Viennese Vintage Workshop is organised by the Vienna University of Technology, in particular the Institute of Mathematical Methods in Economics (research group on Operations Research and Control Systems ORCOS and research group Economics ECON) and the Wittgenstein Centre for Demography and Global Human Capital (IIASA, VID/ÖAW, WU), in particular the Vienna Institute of Demography (VID) of the Austrian Academy of Sciences (ÖAW).

The workshop is supported by the Austrian Society of Operations Research (ÖGOR), working group for optimal control and dynamic games.

THURSDAY, 5 DECEMBER 2019

08:30 – 08:50 **Registration**

08:50 – 09:00 **Opening**

Session 1

Chair: Ben Heijdra

09:00 – 09:30 **Lancker, K.**; Quaas, M.; Tahvonen, O.
Vintages of wind turbines

09:30 – 10:00 **Palokangas, T.**
Optimal Taxation with Endogenous Population Growth and the Risk of Environmental Disaster

10:00 – 10:30 **Heijdra, B.J.**; Heijnen, P.
Reversible environmental catastrophes with disconnected generations

10:30 – 11:00 COFFEE BREAK

Session 2

Chair: Herbert Dawid

11:00 – 11:30 **Kort, P.M.**; Hart, R.F.; Wrzaczek, S.
Planned obsolescence: a dynamic analysis

11:30 – 12:00 **Faggian, S.**; Kort, P.M.
A dynamic model of the firm with one-hoss shay depreciation

12:00 – 12:30 **Dawid, H.**; Muehlheusser, G.
Smart Products: Liability, Timing of Market Introduction, and Investments in Product Safety

12:30 – 14:00 LUNCH BREAK

Session 3

Chair: Alexey Davidov

14:00 - 14:30 **De Frutos, J.**; Lopez, P.; Martin-Herran, G.
Analytical characterization of equilibrium strategies in a multiregional transboundary pollution differential game with spatially distributed controls

14:30 – 15:00 **Augeraud-Veron, E.**; Ducrot, A.
Taking into account perception of environmental quality: how space matters?

15:00 – 15:30 **Davidov, A.**
On optimal steady state in the dynamic of exploited population with diffusion

16:30 – 16:00 COFFEE BREAK

Session 4

Chair: Michael Kuhn

16:00 – 16:30 **Freiberger, M.**; Kuhn, M.; Wrzaczek, S.
Prepare or react? Integrating large health shocks into life-cycle models

16:30 – 17:00 **Prettner, K.**; Strulik, H.
Innovation, automation and inequality: Policy challenges in the race against the machine

17:00 – 17:30 **Sánchez-Romero, M.**; Schuster, P.; Prskawetz, A.
The impact of introducing a pension sustainability factor on inequality and growth

17:30 – 18:00 **Kuhn, M.**; Sánchez-Romero, M.
Medical progress as a driver of (unequal) life cycle outcomes

18:30 DINNER

FRIDAY, 6 DECEMBER 2019

Session 5

Chair: Fausto Gozzi

- 09:00 – 09:30 **Kühn, C.**
Adaptive network dynamics
- 09:30 – 10:00 **Federico, S.;** Boucekkine, R.; Fabbri, G.; Gozzi, F.
Growth and agglomeration in the heterogeneous space: a generalized AK approach
- 10:00 – 10:30 **Upmann, T.;** Uecker, H.; Hammann, L.; Blasius, B.
Optimal stock-enhancement activities for a spatially distributed renewable resource
- 10:30 – 11:00 **Gozzi, F.**
A mean field game approach to economic inequalities across space
- 11:00 – 11:30 COFFEE BREAK

Session 6

Chair: Raouf Boucekkine

- 11:30 – 12:00 **Tavhonen, O.;** Quaas, M.
Optimal and Markov-perfect Nash equilibria in harvesting age-structured semelparous species
- 12:00 – 12:30 **Dijk, H.**
Health and labor supply over the life cycle: How important is mental health?
- 12:30 – 13:00 **Boucekkine, R.;** Melindi-Ghidi, P.
Particularism, dominant minorities and institutional change
- 13:00 – 13:45 LUNCH BREAK

Session 7

Chair: Sebastian Anita

- 13:45 – 14:15 **Fabbri, G.**
A spatiotemporal framework for the analytical study of optimal growth under transboundary pollution
- 14:15 – 14:45 **Yegorov, Y.**
Economic geographical model of historical dynamics of countries
- 14:45 – 15:15 **Anita, S.**
Regional control problems for structured population dynamics