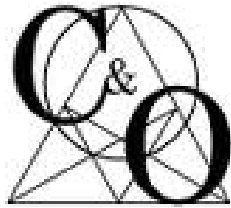


Around Viability Boundaries Aux Frontières de la Viabilité

December 12-14, 2012

Projet Combinatoire & Optimisation



Wednesday, December 12, Amphi 15 Chairwoman: Hélène Frankowska

- 08:45-09:00 **Registration**, Lane 15-16, first floor, Room 101
- 09:05-09:10 **Wellcome**, Hélène Frankowska, Amphi 15
- 09:10-09:25 **Opening** by George Haddad (UNESCO)
- 09:30-10:10 **Bernhard Pierre** Option pricing in a tychastic market model
- 10:15-10:55 **Cannarsa Piermarco** *Singularities in dynamic programming*
- 11:00-11:30 **Coffee Break**
- 11:30-12:10 **Colombo Rinaldo** *Confinement problems in individuals - population interactions*
- 12:15-12:55 **Lorenz Thomas** *Differential equations in (possibly) nonlinear spaces: A short excursion*
- 13:00-14:30 **Lunch Break**
- 14:30-15:10 **Gruene Lars** *On the role of viability in model predictive control*
- 15:15-15:55 **Goebel Rafal** *Hybrid Control: How set-valued analysis helps establish robust stability theory*
- 16:00-16:30 **Coffee Break**
- 16:30-17:10 **Vinter Richard** *Stability of nonlinear systems with discontinuous control laws*
- 17:10-17:50 **Caraballo Tomas** *Stabilizing differential inclusions and PDEs without uniqueness by noise*

Thursday, December 13, Lane 15-25, Room 104 Chairman: Georges Haddad

- 09:00-09:40 **Danchin Antoine** *Antifragility and tinkering in biology (and in economy).*
Flexibility is an efficient epigenetic solution for risk management
- 09:45-10:25 **Burnod Yves** *Developing cerebral architecture for multiple acquisitions and adaptations by young children*
- 10:30-11:10 **Peyrieras Nadine** *Embryonic development as a viability screen for potential evolutionary innovations*
- 11:10-11:30 **Coffee Break**
- 11:30-12:10 **Cartelier Jean** *A model of viability for a monetary economy*
- 12:15-12:55 **Lozève Vladimir** *Application of viability theory to macroeconomics growth theory and to financial modelling*
- 13:00-14:30 **Lunch Break**
- 14:30-15:10 **Dordan Olivier, Chen Luxi** *Viabilist and tychastic approaches to guaranteed ALM problem*
- 15:15-15:55 **Terreaux Jean-Philippe** *Biodiversity evaluation, modelling and viability*
- 15:55-16:15 **Coffee Break**
- 16:15-16:55 **Proust Joëlle** *Epistemic viability and the dynamics of acceptances*
- 17:00-17:40 **Besnier Jean-Michel** *Title to be announced*

Friday, December 14, Lane 15-25, Room 104 Chairman: Patrick Saint-Pierre

- 09:00-09:40 **Moulin Hervé** *Impartial division of an euro*
- 09:45-10:25 **Cornet Bernard** *Computing and characterizing the cost spread of a financial structure with bid/ask*
- 10:25-11:05 **Quincampoix Marc** *Average long time behaviour for optimal control and differential games*
- 11:05-11:35 **Coffee Break**
- 11:35-12:15 **Najman Laurent, Géraud Thierry** *Discrete set-valued interpolation in the Alexandrov topology*
- 12:15-12:55 **Cardaliaguet Pierre** *On some non standard control problems*
- 13:00-14:30 **Lunch Break**
- 14:30-15:10 **Doyen Luc** *Co-viability modelling for the sustainable management of biodiversity*
- 15:10-15:50 **Durand Marie-Hélène** *Sustainability and intergenerational equity*
- 15:50-16:20 **Coffee Break**
- 16:20-17:00 **Désilles Anya, Fronville Alexandra**
- 17:00-17:40 **Seube Nicolas** *Title to be announced*
- 17:40-18:00 **Open Problems and Conclusions**