

**ELEVENTH ANNUAL SYMPOSIUM
OF
THE SOCIETY FOR NONLINEAR DYNAMICS AND ECONOMETRICS**

VILLA LA PIETRA IN FLORENCE, ITALY

MARCH 13-15, 2003

THURSDAY, MARCH 13

8:15 A.M. - 8:45 A.M.

REGISTRATION

8:45 A.M. - 9:00 A.M.

WELCOMING REMARKS

James Ramsey (New York University)

9:00 A.M. - 10:30 A.M.

INFORMATION IN FINANCE

Chair: Gerald P. Dwyer, Jr. (Federal Reserve Bank of Atlanta)

“The Equilibrium Allocation of Diffusive and Jump Risks with Heterogeneous Agents”

Stephan Dieckmann (Carnegie Mellon University)

Michael Gallmeyer (Carnegie Mellon University)

“An Examination of Heterogeneous Beliefs with a Short-Sale Constraint”

Michael Gallmeyer (Carnegie Mellon University)

Burton Hollifield (Carnegie Mellon University)

“Day Traders, News Arrival and Exchange Rate Dynamics”

Frank Westerhoff (University of Osnabrueck)

Sebastiano Manzan (University of Amsterdam)

10:30 A.M. - 11:00 A.M.

BREAK

11:00 A.M. - 12:30 P.M.

ECONOMETRICS

Chair: Phil Rothman (East Carolina University)

“A Vector Error Correction Model with Non-Linear Adjustments”

Frederique Bec (CREST-ENSAE)

Anders Rahbek (University of Copenhagen)

“Measuring Network Externalities: A Structural Econometric Model for Non-Durables”

Michal Grajek (Social Science Center Berlin and Humboldt University)

“Non-Stationary and No Moments Asymptotics for the ARCH Model”

Anders Rahbek (University of Copenhagen)

Soren Tolver Jensen (University of Copenhagen)

“Modelling Realized Volatility: Long Memory, Structural Breaks and Nonlinearity”

Dick Van Dijk (Econometric Institute, Erasmus University Rotterdam)

12:30 P.M. - 2:00 P.M.

LUNCH

2:00 P.M. - 3:30 P.M.

AGENT BASED MODELING

Session organized by Giulia Iori (Kings College London)

Chair: Willi Semmler (CEM Bielefeld and New School University)

“Institutional Architectures and Behavioral Ecologies in the Dynamics of Financial Markets: A Preliminary Investigation”

Giulio Bottazzi (Sant'Anna School of Advanced Studies)

Giovani Dosi (Sant'Anna School of Advanced Studies)

“A Model of Asset Price and Wealth Dynamics with Heterogeneous Agents”

Roberto Dieci (Università degli Studi di Bologna)

Carl Chiarella (University of Technology - Sydney)

Laura Gardini (University of Urbino)

“Complex Dynamics and Financial Fragility in an Agent Based Model”

Mauro Gallegati (Università Politecnica delle Marche)

Gianfranco Giulioni (Università Politecnica delle Marche)

Nozomi Kichiji (University of Hokkaido)

“On Continuous Beliefs Systems and Herding”

Roy van der Weide (University of Amsterdam)

Cees Diks (University of Amsterdam)

3:30 P.M. - 4:00 P.M.

BREAK

4:00 P.M. - 5:30 P.M.

NONLINEAR METHODS IN ECONOMETRIC TIME SERIES MODELING

Session organized by Cees Diks (CeNDEF, University of Amsterdam)

Chair: Mark Jensen (Brigham Young University)

“Detecting Serial Dependence in Tail Events: A Test Dual to the BDS Test”

Cees Diks (CeNDEF, University of Amsterdam)

“Nonlinear Model Estimation using Genetic Programming with Random Shocks and Measurement Errors”

Jordan Milev (Yale University)

“Bootstrapping the Economy - A Non-Parametric Method of Generating Consistent Future Scenarios”

Ulrich Mueller (Converium)

Peter Blum (Converium and ETH Zurich)

Ake Wallin (Converium)

“Cyclical Behaviour of Prices in the G7 Countries through Wavelets Analysis”

Antonio Palestrini (Università Politecnica delle Marche)

Mauro Gallegati (Università Politecnica delle Marche)

Milena Petrini (Università Politecnica delle Marche)

5:30 P.M. - 7:00 P.M.

RECEPTION

FRIDAY, MARCH 14

9:00 A.M. - 10:30 A.M.

FINANCE

Chair: Dick van Dijk (Econometric Institute, Erasmus University Rotterdam)

“Modeling Long Memory in Exchange Rate Volatility: A Multivariate Asymmetric GARCH Approach with Time-Varying Correlations”

Kin-Yip Ho (National University of Singapore)

Albert Tsui (National University of Singapore)

“Forecasting Stock Market Volatility with Regime-Switching GARCH Models”

Juri Marcucci (University of California - San Diego)

“Breaks and Persistency: Macroeconomic Causes of Stock Market Volatility”

Claudio Morana (Universita del Piemonte Orientale)

Andrea Beltratti (Bocconi University)

10:30 A.M. - 11:00 A.M.

BREAK

11:00 A.M. - 12:30 P.M.

INFORMATION - THEORETIC SOLUTIONS TO NONLINEAR, DYNAMIC ECONOMETRIC PROBLEMS

Session organized by Amos Golan (American University)

Chair: James Ramsey (New York University)

“An Information Theoretic Approach for Estimating Nonlinear Dynamic Models”

Amos Golan (American University)

“The Next Tick on Nasdaq: Does Level II Information Matter?”

Bruce Mizrach (Rutgers)

“Predicting Real Growth and the Probability of a Recession in the Euro Area Using the yield Spread”

Ivan Paya (Cardiff University)

Agustin Duarte (University of Alicante, Spain)

Ioannis Venetis (Cardiff University)

12:30 P.M. - 2:00 P.M.

LUNCH

2:00 p.m. - 3:30 p.m.

Networks

Session organized by Giulia Iori (Kings College London)

Chair: Gerald P. Dwyer, Jr. (Federal Reserve Bank of Atlanta)

“Coordination, Local Interactions and Endogenous Neighborhood Formation”

Giorgio Fagiolo (Scuola Superiore Sant'Anna)

“Systemic Risk and Random Networks”

Giulia Iori (Kings College London)

Saqib Jaffarey (University of Liverpool)

Francisco Padilla (Kings College London)

“The Emergence of Economic Networks”

Alan Kirman (G.R.E.Q.A.M.)

“The Dynamics of the Al-Qaeda Network”

Gordon Woo (Risk Management Solutions)

3:30 P.M. - 4:00 P.M.

BREAK

4:00 P.M. - 5:30 P.M.

The Craig Hiemstra Memorial Lecture

“Classic Macro and Nonlinear Structure”

Richard H. Day (University of Southern California)

Laurent Cellier (University of Southern California)

Chengyu Yang (University of Southern California)

SATURDAY, MARCH 15

9:00 A.M. - 10:30 A.M.

MACROECONOMICS AND FINANCE

Chair: Bruce Mizrach (Rutgers)

“Universal Properties of Financial Markets as a Consequence of Traders' Behavior: An Analytical Solution”

Simone Alfarano (University of Kiel)
Friederich Wagner (University of Kiel)
Thomas Lux (University of Kiel)

“Momentum and Reversal Dynamics in US Valuation Ratios”

Ana-Maria Fuertes (Cass Business School, City University)
Jerry Coakley (University of Essex)

“Non-linear Inflationary Dynamics: Evidence from the UK”

Costas Milas (Brunel University)
Michael Arghyrou (Brunel University)
Christopher Martin (Brunel University)

“Monetary Policy Under Model Uncertainty: Empirical Evidence, Adaptive Learning and Adaptive Control”

Wenlang Zhang (CEM Bielefeld and New School University)
Willi Semmler (CEM Bielefeld and New School University)

10:30 A.M. - 11:00 A.M.

BREAK

11:00 A.M. - 12:30 P.M.

ROUNDTABLE DISCUSSION

Confirmed Participants:

Richard H. Day (University of Southern California)
Cees Diks (CeNDEF, University of Amsterdam)
Gerald P. Dwyer, Jr. (Federal Reserve Bank of Atlanta)
Amos Golan (American University)
Giulia Iori (Kings College London)
Mark Jensen (Brigham Young University)
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