



AMASES XLIII

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DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
DEPARTMENT OF ECONOMICS

UNIVERSITY OF PERUGIA

E-BOOK OF ABSTRACTS



Plenary Lectures

[Benchmarking: Retrospective and Open Problems](#)

Marco Li Calzi

[Algebraic Option Pricing](#)

Peter Carr

[Let's replace p-values with betting scores](#)

Glenn Shafer

AMASES Award

[Optimal Reinsurance and Investment in a Diffusion Model](#)

Matteo Brachetta and Hanspeter Schmidli

[A stochastic model to quantify demographic profit and loss coherent with the market consistent valuation](#)

Francesco Della Corte, Nino Savelli and Gian Paolo Clemente

[On time-consistent multi-horizon portfolio allocation](#)

Simone Cerreia-Vioglio, Fulvio Ortu, Francesco Rotondi and Federico Severino

[Social Preferences through Riesz Spaces: A First Approach](#)

Gaetano Vitale

Risk, Uncertainty, and Discovery: a tribute to Erio Castagnoli [RUDEC]

[Competitive risk measures](#)

Erio Castagnoli, Fabio Maccheroni, Claudio Tebaldi and Giacomo Cattelan

[Mixing without Randomness](#)

Paolo Ghirardato and Daniele Pennesi

[Multinomial logit processes and preference discovery - inside and outside the black box](#)

Simone Cerreia-Vioglio, Fabio Maccheroni, Massimo Marinacci and Aldo Rustichini

Advanced Methods in Financial Modeling [MMIF-FM]

[Capital Allocation Rules and Acceptance Sets](#)

Gabriele Canna, Francesca Centrone and Emanuela Rosazza Gianin

[A coupled model of returns and volumes in financial markets](#)

Filippo Petroni and Guglielmo D'Amico

[Anomalous diffusions in option prices: reconnecting trade duration and the volatility term structure](#)

Lorenzo Torricelli and Antoine Jacquier

[Portfolio optimization with self-exciting Lévy process](#)

Francesco Giuseppe Cordonì, Luca Di Persio and Andrea Veronese

[Finite Mixture Approximation of CARMA\(p,q\) model](#)

Lorenzo Mercuri, Andrea Perchiazzo and Edit Rroji

[Disentangling the role of the exchange rate in oil-related scenarios for the European stock market](#)

Javier Ojea Ferreiro

[On the asymmetry in interest rates](#)

Giacomo Morelli

[Diversify Diversification](#)

Gianluca Fusai and Domenico Mignacca

Agent-Based Models and Computational Economics [ABM-CE]

[On Modeling Heterogeneous Agents Avoiding Stiff Equations](#)

Michael Heinrich Baumann, Michaela Baumann, Lars Grüne and Bernhard Herz

[Emergence of Action Controls in the Course of Organizational Growth](#)

Friederike Wall

[Influence and Manipulation in Personal Finance Decisions](#)

Loretta Mastroeni, Maurizio Naldi and Pierluigi Vellucci

[Specific investments under negotiated transfer pricing: An agent-based simulation with fuzzy Q-learning agents](#)

Christian Mitsch

[A stylized procedure to transfer neoclassical models to agent-based models](#)

Patrick Reinwald, Stephan Leitner and Friederike Wall

[An Agent-Based Model for tertiary educational choices in Italy](#)

Silvia Leoni

[Asymmetric information and learning by imitation in agent-based financial markets](#)

Luca Gerotto, Paolo Pellizzari and Marco Tolotti

[On the value of information systems in hidden-action setups: An agent-based approach](#)

Stephan Leitner and Friederike Wall

Artificial Intelligence [NBDAI-AI]

[Machine Learning for Pricing American Options in High Dimension](#)

Ludovic Goudenège, Andrea Molent and Antonino Zanette

[Machine Learning, Pricing and Risk Measures](#)

Pietro Rossi and Flavio Cocco

[The mean-variance portfolio selection problem with cardinality and risk parity control: an experimental evaluation of three versions of the PSO algorithm](#)

Massimiliano Kaucic

[Machine Learning Econometrics](#)

Carlo Lucheroni

[Q-Learning based financial trading systems](#)

Marco Corazza

Big Data [NBDAI-BD]

[Sample size and precision of supervision: an optimal trade-off based on econometrics and machine learning techniques](#)

Giorgio Gnecco and Federico Nutarelli

[Use of High Dimensional Modeling for Variables Selection in Economic field](#)

Luigi Riso and Marco Guerzoni

[Score Driven Exponential Random Graphs \(SD-ERGM\): A New Class of Time Varying Parameters Models for Dynamical Networks](#)

Domenico Di Gangi, Giacomo Borretti and Fabrizio Lillo

[A tale of two sentiment scales: Disentangling short-run and long-run components in multivariate sentiment dynamics](#)

Giacomo Bormetti, Fabrizio Lillo and Danilo Vassallo

[Research productivity in the UK: Has the Research Excellence Framework worked? In which way?](#)

Albert Banal-Estanol, Mireia Jofre-Bonet, Giulia Iori, Laia Maynou-Pujolras, Michele Tumminello and Pietro Vassallo

[Market nanostructure: how traders shape the dynamics of limit order books](#)

Damien Challet and Serge Kassibrakis

[A social network system for the car insurance fraud detection](#)

Fabio Farabullini, Riccardo Cesari, Andrea Consiglio, Michele Tumminello and Pietro Vassallo

Challenges In Modelling Sparse And Noisy Data [MSND]

[Mixed-frequency extreme value regression: Estimating the effect of Mesoscale convective systems on extreme rainfall in the Midwest](#)

Luca Trapin and Debbie Dupuis

[Forecasting economic time series using score-driven dynamic models with mixed-data sampling](#)

Paolo Gorgi, Siem Jan Koopman and Li Mengheng

[On the Factor Structure of High-Frequency Financial Prices](#)

Giuseppe Buccheri and Gael Mboussa Anga

[Insights into tuning parameters optimal selection for vol-of-vol estimation](#)

Giacomo Toscano and Maria Cristina Recchioni

[Tail Risks in Vast Portfolio Selection: a Comparison of Penalized Quantile versus Expectile Models](#)

Rosella Giacometti, Gabriele Torri and Sandra Paterlini

Cryptoassets and Blockchain: Economic and Computational aspects [CBEC]

[Cointegration analysis of cryptocurrencies](#)

Marco Patacca, Gianna Figà-Talamanca and Sergio Focardi

[Bubbles, regime-switching and jumps in cryptocurrencies dynamics](#)

Alessandra Cretarola and Gianna Figà-Talamanca

[Bitcoin forecasting through Fuzzy transform](#)

Maria Letizia Guerra, Laerte Sorini and Luciano Stefanini

Decision Making, Uncertainty and Imprecision [DMUI]

[On Incomplete Information Games under Imprecise Probability Correspondences](#)

Giuseppe De Marco and Maria Romaniello

[Cardiovascular disease risk assessment for health insurance pricing using the Choquet integral](#)

Luca Anzilli and Silvio Giove

[Conditional preferences on generalized Anscombe-Aumann acts](#)

Davide Petturiti and Barbara Vantaggi

[Semilattices, Canonical Embeddings and Representing Measures](#)

Gianluca Cassese

[On the existence of continuous processes with given one-dimensional distributions](#)

Pietro Rigo and Luca Pratelli

[Triangular norms and conjunction of conditional events](#)

Angelo Gilio and Giuseppe Sanfilippo

[Correlation between unexpected events in a non-probabilistic context](#)

Giulianella Coletti and Sara Latini

[Unsupervised merging of conflicting databases](#)

Andrea Capotorti

[Cumulants for multivariate subordinated Brownian motions: the normal inverse Gaussian case](#)

Elvira Di Nardo, Marina Marena and Patrizia Semeraro

[Object-Oriented Bayesian Networks for the detection of the determinants of money laundering: an application to Italy](#)

Marina Resta and Maria Elena De Giuli

Decisions under Partial Information [DPI]

[Optimal Reduction of Public Debt under Partial Observation of the Economic Growth](#)

Giorgia Callegaro, Claudia Ceci and Giorgio Ferrari

[Optimal Portfolio Policies for Unobservable Random Drift under Convex Constraints](#)

Jörn Sass and Christian Vonwirth

[Power Utility Maximization in a Dynamic Black Litterman Model](#)

Ralf Wunderlich

[The value of information for optimal portfolio management](#)

Katia Colaneri, Stefano Herzel and Marco Nicolosi

[Portfolio management with benchmark related incentives under partial information](#)

Flavio Angelini, Marco Nicolosi and Stefano Herzel

Fixed Point Theorems and Applications [FPT]

[On the solutions of variational inequality problems on fixed point sets of multivalued mappings on reflexive Banach spaces](#)

Luigi Muglia

[Existence of financial equilibria with real assets using a Variational Inequality approach](#)

Maria Bernadette Donato and Antonio Villanacci

[Variational method to study an equilibrium problem under uncertainty](#)

Domenico Scopelliti and Monica Milasi

[An existence result for a new class of impulsive functional differential equations with delay](#)

Vittorio Colao, Luigi Muglia and Xu Hong-Kun

[Minimax inequalities for multivalued maps](#)

Irene Benedetti and Anna Martellotti

Game Theory [GT]

Relationship between social planner and firms in the management of water resource

Marta Biancardi, Lucia Maddalena and Giovanni Villani

Persuasive Stackelberg strategies and Application in Common Pool Resources

Lina Mallozzi, Roberta Messalli and Armando Sacco

Non-transferable utility Games in Partition Function Form

Giovanna Bimonte and Luigi Senatore

Innovative Models for Insurance [MMIF-II]

Optimization methods for the G2++ parameters calibration and market efficiency under Solvency II

Francesco Strati

Distributionally robust liability-driven pension fund management

Giorgio Consigli, Rui Gao, Anton Kleywegt and Asmerilda Hitaj

Options on Constant Proportion Portfolio Insurance strategies with Guaranteed Minimum Equity Exposure

Immacolata Oliva, Luca Di Persio and Kai Wallbaum

Medium-term assessment of Premium Risk in Non-Life insurance based on Solvency II framework

Antonio Pallaria and Nino Savelli

Time Consistent Optimal Asset Allocation for Life Insurance Funds

Anna Maria Gambaro

Improving the assessment of longevity risk using survey data on subjective beliefs

Giovanna Apicella and Enrico De Giorgi

The Calculation of Pure Premium for Non-Life Insurance by Generalized Non-Homogeneous Markov Reward Processes

Guglielmo D'Amico, Guillen Montserrat, Jacques Janssen, Raimondo Manca, Filippo Petroni and Ernesto Volpe di Prignano

Individual claim reserving in credit insurance using Machine Learning techniques

Damiano Ticconi

Life and Pension Insurance [LPI]

A Beta regression two-part model for partial and total surrender cash flows

Paolo de Angelis, Fabio Baione and Davide Biancalana

Analytical valuation of surrender options in participating policies with minimum guaranteed

Maria Chiarolla, Tiziano De Angelis and Gabriele Stabile

On the optimal design of participating life insurance contracts

Anna Rita Bacinello, Chiara Corsato and Pietro Millosovich

Testing the least squares Monte Carlo method for the evaluation of capital requirements in life insurance

Massimo Costabile

Pension annuities and real estate: a contractual solution

Marilena Sibillo, Valeria D'Amato, Emilia Di Lorenzo, Steven Haberman and Roberto Tizzano

Market Imperfections [MI]

Welfare Analysis under Probabilistic Choices in a Rational Expectations Equilibrium Model

Xue-Zhong He, Lei Shi and Marco Tolotti

On the bargaining set in mixed markets

Maria Gabriella Graziano, Marialaura Pesce and Niccolò Urbinati

The Bankruptcy Problem: different approaches

Chiara Donnini

Cooperation of groups - an optimal transport approach

Xinyang Wang

Housing markets with limited externalities

Claudia Meo and Bettina Klaus

Multiple Criteria Decision Making [MCDM]

Distance-based measures of incoherence for pairwise comparisons

Matteo Brunelli and Bice Cavallo

Hierarchy Stochastic Multi-Attribute Acceptability Analysis: Performance evaluations of energy companies

Maria Rosaria Pappalardo and Silvia Angilella

Optimal selection and environmental sustainability of innovative storage conditions and packaging technologies in cheesecake production

Luca Grilli, Michele Gutierrez, Lucia Maddalena and Antonio Piga

An improved version of the deck of cards method to build evaluation scales

Salvatore Corrente, José Figueira and Salvatore Greco

ELECTRE Score: a first Outranking Based Scoring Method

Salvatore Greco, José Rui Figueira and Bernard Roy

Electre Methods for analyzing the behaviour of economic agents

Gerarda Fattoruso, Gabriella Marcarelli, Massimo Squillante and Maria Grazia Olivieri

Necessary and sufficient conditions for the consistency in pairwise comparisons

Michele Fedrizzi and Matteo Brunelli

Coherent weights for pairwise comparison matrices and a mixed-integer linear programming problem

Bice Cavallo

Networks [NBDAI-NW]

On Multiscale Transportation Networks with Distributed Dynamics Tolls

Rosario Maffioli and Giacomo Como

A percolation approach for the detection of bottlenecks in air traffic networks

Salvatore Micciche', Giuseppe Pappalardo and Rosario Nunzio Mantegna

Community structures based on multi-attributes in International Trade Network

Paolo Bartesaghi, Stefano Benati, Gian Paolo Clemente and Rosanna Grassi

Comparing Operational Terrorist Networks

Matteo Gregori and Ugo Merlone

Economic shocks, financial contagion and systemic risk in the euro area

Mattia Montagna, Gabriele Torri and Giovanni Covi

The network of the economic content in the US Presidents' speeches: a study of the interconnectedness
Jessica Riccioni, Matteo Cinelli and Valerio Ficcadenti

Regularized Networks and Doom-Loop Effects: Evidence from the CDS Market
Giovanni Bonaccollo, Andrea Consiglio, Michele Tumminello and Pietro Vassallo

Similarity and systemic risk in the network of mutual fund holdings
Danilo Delpini, Stefano Battiston, Guido Caldarelli and Massimo Riccaboni

Nonlinear Dynamics in Economics [NED-EC]

Learning-by-doing and knowledge spillover networks in an industrial district with heterogeneous firms
Fausto Cavalli, Ahmad Naimzada and Nicolò Pecora

Envy effects on conflict dynamics in supervised work groups
Arianna Dal Forno and Ugo Merlone

Global Indeterminacy of the Equilibrium in a Endogenous Growth Disposal Resource Model
Beatrice Venturi and Danilo Liuzzi

A contribution to the theory of fertility and economic development
Mauro Sodini and Luca Gori

Monopoly with differentiated final goods and heterogeneous markets
Andrea Caravaggio and Mauro Sodini

Nonlinear Dynamics in Finance [NED-FN]

Investor sentiment and trading behavior
Giovanni Campisi and Silvia Muzzioli

Disposition effect in a financial market model with heterogeneous agents
Fabio Tramontana and Alessia Cafferata

Do financial markets affect real economy? Influences of professional and non-professional beliefs
Francesca Grassetti, Cristiana Mammana and Elisabetta Michetti

Credit Risk Modelling: Migration Rates Systems with Renewal and an IFRS9-baseline
Simone Landini, Mariacristina Uberti and Simone Casellina

Nonlinear Dynamics in Macroeconomics [NED-ME]

The Pasinetti-Solow Growth Model with Optimal Saving Behaviour: A Global Bifurcation Analysis
Pasquale Commendatore and Iryna Sushko

A macroeconomic model with R&D and forward looking firms
Lorenzo Cerboni Baiardi, Luca Gori and Mauro Sodini

Nonlinear Evolutionary Models [NED-EM]

Offshoring, reshoring, unemployment and wage dynamics in a two-country evolutionary model
Davide Radi, Fabio Lamantia and Gian Italo Bischi

Evolutionary dynamics in club goods binary games
Gian Italo Bischi, Ugo Merlone and Eros Pruscini

Evolutionary dynamics of compliance in a two-population game of auditors and auditees
Domenico De Giovanni, Fabio Lamantia and Mario Pezzino

Evolutionary selection of heterogeneous expectations with information costs in a Muthian cobweb model
Ahmad Naimzada and Marina Pireddu

An evolutionary approach to the dynamics of compliant firms in groundwater pumping
Marta Biancardi, Gianluca Iannucci and Giovanni Villani

An evolutionary dynamical model for corruption cycles in democratic states
Elvio Accinelli, Filipe Martins, Bruno Oliveira, Alberto Pinto and Atefeh Afsar

Optimal Control Problems and Related Issues [DECVA-OC]

Optimal control problems and Sub-Riemannian geometry: controllability of a macroeconomic system
Massimiliano Ferrara

An evasion problem for differential game with simple motion
Massimiliano Ferrara, Gafurjan Ibragimov, Marks Ruziboev and Bruno Antonio Pansera

Analysis of incentive strategy in a supply chain with a strategic customer
Massimiliano Ferrara, Mehrnoosh Khademi and Somayeh Sharifi

Analysis of some incentives in green supply chain
Massimiliano Ferrara, Mehrnoosh Khademi and Somayeh Sharifi

Existence results of homoclinic solution for nonlinear second-order difference equations
Giuseppe Caristi, Shapour Heidarkhani and David Barilla

Optimal Management Strategy to Control the Removal of an Invasive Species
Stefania Ragni

Optimal management of pumped hydroelectric production with state constrained optimal control
Athena Picarelli and Tiziano Vargiolu

A Stochastic Programming approach for the home energy management
Antonio Violi, Patrizia Beraldi, Maria Elena Bruni and Gianluca Carrozzino

Performance measurement and efficiency analysis [PMEA]

Underestimation functions for a rank-2 partitioning method
Riccardo Cambini

Impact evaluation in a multi-input multi-output setting: Evidence on the effect of additional resources for schools
Giovanna D’Inverno, Mike Smet and Kristof De Witte

Performance evaluation under “Zero-Waste” strategy: Evidence on waste management in Tuscan municipalities
Laura Carosi, Giovanna D’Inverno and Giulia Romano

How does corporate social responsibility impact corporate bond pricing: a worldwide conditional efficiency analysis
Pierluigi Toma, Antonio Salvi, Anastasia Giakoumelou and Massimo Frittelli

Analyzing space-time patterns of technical efficiency in the Italian wine industry: a geographically weighted panel stochastic frontier approach
Francesco Vidoli and Jacopo Canello

Dealing with imperfect compliance in frontier evaluation: a Probabilistic Efficiency Model approach
Anna Mergoni, Giovanna D’Inverno and Kristof De Witte

Preferences, Choices and Utility Representations [PCU]

[The interplay between two rationality tenets: Extending Schmeidler's theorem to bi-preferences](#)

Alfio Giarlotta and Stephen Watson

[Utilità con numeri fuzzy](#)

Nando Prati

[Continuous multi-utility representations of non-total preorders](#)

Alessandro Caterino, Rita Ceppitelli and Lubica Holà

[Lack of information and risk aversion: links among utilities, belief functions and the target-based approach](#)

Rachele Foschi and Fabio L. Spizzichino

[Rankability as a strong form of coherence](#)

Federico Quartieri

Variational Analysis in Economics [DECVA-VA]

[Convergence of perturbed alternating projections sequences](#)

Carlo Alberto De Bernardi and Enrico Miglierina

[Dealing with concave costs and differentiation in oligopolistic markets via Ky Fan inequalities](#)

Giancarlo Bigi

[A sequential optimization model for municipal solid waste management](#)

Elisabetta Allevi, Adriana Gnudi, Igor V. Konnov and Giorgia Oggioni

[A sequential optimization approach for multi follower games](#)

Lorenzo Lampariello, Christoph Neumann, Jacopo Maria Ricci, Simone Sagratella and Oliver Stein

[A Tikhonov regularization method for equilibrium selection](#)

Lorenzo Lampariello, Christoph Neumann, Jacopo Maria Ricci, Simone Sagratella and Oliver Stein

[Existence and regularity results for a general oligopolistic market equilibrium problem](#)

Annamaria Barbagallo and Serena Guarino Lo Bianco

Regular Session Economics [RS-EC]

[Manipulation of social choice functions under incomplete information](#)

Michele Gori

[Options trading strategies and framing: a cumulative prospect theory approach](#)

Martina Nardon and Paolo Pianca

[A Contribution to the NPV vs. IRR Debate](#)

Erio Castagnoli and Gino Favero

[On the properties of \$\Lambda\$ -quantiles](#)

Fabio Bellini and Ilaria Peri

Regular Session Finance 1 [RS-FIN1]

[Measuring risk with COGARCH\(p,q\) models](#)

Francesco Bianchi, Lorenzo Mercuri and Edit Rroji

[Optimal Installation of Solar Panels with Price Impact](#)

Torben Koch and Tiziano Vargiolu

Representation of supply and demand curves on day-ahead electricity markets using mesh-free interpolation techniques

Mariia Soloviova and Tiziano Vargiolu

Pricing financial derivatives with and without barriers: an extremely efficient computational method

Luca Vincenzo Ballestra

Regular Session Finance 2 [RS-FIN2]

The resilience of ethical financial networks

Roy Cerqueti, Rocco Ciciretti and Marco Nicolosi

Contract Design in Electricity Markets with High Penetration of Renewables: A Two-Stage Approach

Rossana Riccardi, Arega Getaneh Abate and Carlos Ruiz Mora

The migration-tourism nexus in the EU28

Davide Provenzano

Regular Session Finance 3 [RS-FIN3]

Optimal execution with risk-adjusted profit and loss

Xue Cheng, Marina Di Giacinto and Tai-Ho Wang

Measures of Connectedness and Systemic Risk

Marialaura Torrente, Mario Maggi and Pierpaolo Uberti

White Noise Theory: Modelling and Simulation in Finance

Marco Papi, Giovanni Palombo and Alfredo Germani

Equal Risk Contribution portfolios using MAD

Jacopo Maria Ricci, Francesco Cesarone and Mustafa Çelebi Pinar

Regular Session Mathematics for Economics [RS-ME]

ROCOF of higher order for continuous time semi-Markov systems with application in volatility measurement

Guglielmo D'Amico and Filippo Petroni

WISMC, Drawdowns and Speed of Market Crash

Guglielmo D'Amico, Bice Di Basilio and Filippo Petroni

The role of CBOE SKEW index and its relation with volatility and returns

Luca Gambarelli and Silvia Muzzioli

Regular Session Optimization [RS-OPT]

Downside Risk Optimization versus Mean-Variance Optimization

Andrea Rigamonti

Locational optimization problems and Voronoi diagrams

Giovanna Bimonte and Ilaria Veronesi

Multi-period portfolio selection with penalization on transactions

Stefania Corsaro, Valentina De Simone, Zeldia Marino and Francesca Perla

Regular Session Selection Portfolio [RS-SP]

CVA and vulnerable options in stochastic volatility models

Elisa Alos, Fabio Antonelli, Alessandro Ramponi and Sergio Scarlatti

Systemic Optimal Risk Transfer Equilibrium

Francesca Biagini, Alessandro Doldi, Jean-Pierre Fouque and Marco Frittelli

Portfolio choice of large investors who interact strategically

Giuliano Curatola

Triangular norms and conjunction of conditional events

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Extended abstract ¹

We study the relationship between a notion of conjunction among conditional events, introduced in recent papers, and the notion of Frank t-norm. By examining different cases, in the setting of coherence, we show each time that the conjunction coincides with a suitable Frank t-norm. In particular, the conjunction may coincide with the Product t-norm, the Minimum t-norm, and Lukasiewicz t-norm. We show by a counterexample, that the prevision assessments obtained by Lukasiewicz t-norm may be not coherent. Then, we give some conditions of coherence when using Lukasiewicz t-norm.

Keywords

Coherence; Conditional Event; Conditional random quantity; Conjunction; Frank t-norm.

References

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