



AFIR-ERM
Finance, Investment & ERM



AFIR-ERM COLLOQUIUM 2019

INNOVATING ACTUARIAL RESEARCH ON FINANCIAL RISK AND ERM

PARALLEL SESSIONS PROGRAMME

Florence, Italy | 21-24 May 2019

Wednesday, May 22, 2019

08:30-10:00

SESSION 1A - MICHELANGELO

Chair: Nino Savelli

A Megatrends-ESG long-term investing approach

Salas Maria Fernanda

The Importance of Narrative in Enterprise Risk Management and elsewhere

Ashe Frank

ESG factors in investments for a better world

Islas Terán Héctor

08:30-10:00

SESSION 1B - GIOTTO

Chair: Gennaro Olivieri

Sunk Costs and Screening: Two-Part Tariffs in Life Insurance

Ostaszewski Krzysztof

Pricing and hedging defaultable participating contracts with regime switching and jump risk

Le Courtois Olivier

Gaussian Process Regression for Pricing Variable Annuities with Stochastic Volatility and Interest Rate

Zanette Antonino

08:30-10:00

SESSION 1C - DANTE

Chair: Fausto Belliscioni

Sensitivity analysis of annuity models

Rabitti Giovanni

Design of risk sharing for variable annuities

Ngugie Diffouo Pauline

Optimal successive annuitisations after retirement

Melis Roberta

Wednesday, May 22, 2019

15:00-16:00

SESSION 2A - MICHELANGELO

Chair: Giampaolo Crenca

Opportunities for actuaries in banking

Allan Iain

Current financial stability initiatives relating to insurers and pension funds

Kemp Malcolm

15:00-16:00

SESSION 2B - GIOTTO

Chair: Marco Pirra

Three-layer problems and the GPD

Fackler Michael

Distribution Choice in Non-Life Insurance Risk Models via Statistical Learning Methods

SU Xiaoshan

15:00-16:00

SESSION 2C - DANTE

Chair: Fabio Baione

Financial impact in the Mexican insurance sector due to the implementation of Solvency II

Gavira Durón Nora

Focus on the Risk management of African central banks

Balde Alpha Mamodou



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16:30-18:00

SESSION 3A - MICHELANGELO

Chair: Carla Angela

Holistic patrimonial investment. How to combine and diversify investment strategies with a risk management and sustainable approach,

Salas Maria Fernanda

Miles for Retirement

Salas Maria Fernanda

Sustainability as a Strategic risk approach:

Sustainability Option into Non-Life Insurance Pricing

Pedol Miriam

16:30-18:00

SESSION 3B - GIOTTO

Chair: Marcello Galeotti

The dynamic structure of data breaches

Pirra Marco

The Accelerating Evolution Underway in the Reach and Efficiency of Quantamental Investing

Macedo Rosemary

Capital Requirement and Extreme Risk – study on a real flood dataset in Europe

Berti Francesca

16:30-18:00

SESSION 3C - DANTE

Chair: Annie Tay

On Inconsistencies of Risk Adjusted Returns with Expected Utility Models in Optimization

Matsuyama Naoki

Frailty Modelling in a multistate framework

Tabakova Daniela Yordanova

A Double-Sigmoid approach for dynamic policyholder behavior

Baione Fabio

Friday, May 24, 2019

11:00-12:45

SESSION 4A - MICHELANGELO

Chair: Paolo De Angelis

Modelling Dynamic Prepayment and Default with Survival Analysis and Machine Learning in Credit Protection Insurance

Aleandri Marco - Eletti Alessia

Flood risk insurance: the Blockchain approach for a bayesian adaptive design of the contract

Vannucci Emanuele

Pricing of Reverse Mortgages through Machine Learning: new opportunities for the actuaries

Piscopo Gabriella

11:00-12:45

SESSION 4B - GIOTTO

Chair: Luigi Vannucci

Comparative Risk Analysis between Sponsors and Participants for the New Risk - Sharing Pension Plan in Japan

Yokoyama Taiga

Stochastic Ordering of the Risks Affecting the Social Security Coverage in Africa

Şahin Şule

Fat-tailed distributions for investment variables

Wilkie David - Şahin Şule

11:00-12:45

SESSION 4C - DANTE

Chair: Fausto Belliscioni

Investment strategy for pooled annuity products

Labit Hardy Héloïse - Sherris Michael

A Value-Based Longevity Index for Hedging Retirement Income Portfolios

Ziveyi Jonathan

Fair valuation of insurance liability cash-flow streams in continuous time: Theory

Delong Łukasz

Application of Affine Processes in Multi-Cohort Mortality Modelling

Sherris Michael