

The 16th International Congress on Insurance: Mathematics and Economics  
June 28 - 30, 2012 Hong Kong

**28 June 2012 Thursday**

08:45 - 09:10	Opening Ceremony						
09:10 - 09:40	Photo Session						
09:40 - 10:40	<b>Plenary Talk - Chair: Hans U. Gerber (RHT)</b> <i>On the Interplay between Distortion, Mean Value and Haezendonck-Goovaerts Risk Measures</i> <b>Marc Goovaerts</b>						
10:40 - 11:00	Coffee Break						
11:10 - 17:00	Parallel Sessions						
<b>Session (Venue)</b>	<b>Session 1 (T2)</b>	<b>Session 2 (T3)</b>	<b>Session 3 (T4)</b>	<b>Session 4 (T5)</b>	<b>Session 5 (T6)</b>	<b>Session 6 (T7)</b>	<b>Session 7 (103)</b>
	<b>Ruin Theory</b>	<b>Mathematical Finance</b>	<b>EIA</b>	<b>Optimal Insurance</b>	<b>Risk Measure</b>	<b>Mortality</b>	<b>Applications</b>
<b>Chair:</b>	<b>David Dickson</b>	<b>Tak Kuen Siu</b>	<b>Eric C.K. Cheung</b>	<b>Zhongfei Li</b>	<b>Fabio Bellini</b>	<b>Georgios Pitselis</b>	<b>Choon Peng Tan</b>
11:10 - 11:30	David Landriault	Serena Tiong	Stefan Holder	Huayue Zhang	Ruijiang Wang	Min Ji	Lucas Jódar
11:30 - 11:50	Shuanming Li	Yang Shen	Mohamed Elsheemy	Hoi Ying Wong	Hanspeter Schmidli	Ramona Meyricke	Sujin Zheng
11:50 - 12:10	Volkmar Lautscham	Thomas Knispel	Runhuan Feng	Hui Zhao	Mohamed Talfi	Matthias Börger	Khashayar Tashtzar
12:10 - 12:30	Kristina P. Sendova	Xin Zhang	Junichi Imai	Lihong Zhang	Jonas Alm	Julien Tomas	Qiyao Luo
12:30 - 14:00	Lunch						
<b>Session (Venue)</b>	<b>Session 8 (T2)</b>	<b>Session 9 (T3)</b>	<b>Session 10 (T4)</b>	<b>Session 11 (T5)</b>	<b>Session 12 (T6)</b>	<b>Session 13 (T7)</b>	<b>Session 14 (103)</b>
	<b>Loss Models</b>	<b>Optimal Dividends</b>	<b>EIA</b>	<b>Optimal Insurance</b>	<b>Dependence</b>	<b>Pension &amp; Retirement</b>	<b>Applications</b>
<b>Chair:</b>	<b>Jae-Kyung Woo</b>	<b>Kam C. Yuen</b>	<b>X. Sheldon Lin</b>	<b>Lihong Zhang</b>	<b>Stéphane Loisel</b>	<b>S.C. Philip Yam</b>	<b>Shuanming Li</b>
14:00 - 14:20	Tao Jin	Benjamin Avanzi	François Quittard-Pinon	Ping Chen	Yunjie (Winnie) Sun	Mayur Ankolekar	Lin Zhang
14:20 - 14:40	Emiliano A. Valdez	Ming Zhou	Pietro Millosovich	Zhibin Liang	Bernard Wong	Séverine Gaille	Hyuk-Sung Kwon
14:40 - 15:00	Yafang Wang	Zhuo Jin	Xiao Wei	Zhongfei Li	Marjan Qazvini	Wei Yang	Ghadir Mahdavi
15:00 - 15:20	Landy Rabehasaina	Xiaofan Peng	Sharon S. Yang	Yan Zeng	Alireza Edalati Nozadi	U.D. Kariyawasam Majuwana Gamage	Jr-Wei Huang
15:20 - 15:40	Coffee Break						
<b>Session (Venue)</b>	<b>Session 15 (T2)</b>	<b>Session 16 (T3)</b>	<b>Session 17 (T4)</b>	<b>Session 18 (T5)</b>	<b>Session 19 (T6)</b>	<b>Session 20 (T7)</b>	<b>Session 21 (103)</b>
	<b>Loss Models</b>	<b>Mathematical Finance</b>	<b>EIA</b>	<b>Credit Risk</b>	<b>Dependence</b>	<b>Pension &amp; Retirement</b>	<b>Applications</b>
<b>Chair:</b>	<b>Emiliano A. Valdez</b>	<b>Enrico Biffis</b>	<b>Junyi Guo</b>	<b>Serena Tiong</b>	<b>Jan Dhaene</b>	<b>Wai Sum Chan</b>	<b>Lan Wu</b>
15:40 - 16:00	Enrique Calderín	Bertrand Tavin	Yu-Yun Yeh	Sau-lung Chan	Mario V. Wüthrich	Mayukh Gayen	Shih-Chieh Bill Chang
16:00 - 16:20	Jiandong Ren	Hao Chang	Przemyslaw Klusik	Guojing Wang	Miguel A. Sordo	Minan Huang	Alexander Bohnert
16:20 - 16:40	Jae-Kyung Woo	Sally Shen	Morten Tolver Kronborg	Arsalan Azamighaimasi	Daniël Linders	Olivier Le Courtois	Shu-Ling Chen
16:40 - 17:00	Cordelia Rudolph	Hong-Chih Huang	Karin Hirhager	Caterina Lepore	Taehan Bae	Kai Chen	Alexander Mägebier
18:30 - 21:30	Symphony of Lights Cruise with Dinner for those with tickets for June 28, 2012						

**29 June 2012 Friday**

<b>Plenary Talk - Chair: Hansjoerg Albrecher</b> <span style="float: right;"><b>(RHT)</b></span> <i>Stochastic Control Applications in Life Insurance</i> <b>Mogens Steffensen</b>							
09:00 - 10:00							
10:00 - 10:20	Coffee Break						
10:30 - 17:20	Parallel Sessions						
Session (Venue)	Session 22 (T2)	Session 23 (T3)	Session 24 (T4)	Session 25 (T5)	Session 26 (T6)	Session 27 (T7)	Session 28 (T8)
	<b>Ruin Theory</b>	<b>Mathematical Finance</b>	<b>Credibility &amp; Optimal Reinsurance</b>	<b>Risk Measure</b>	<b>Extreme Value Theory</b>	<b>Statistics</b>	<b>Insurance</b>
<b>Chair:</b>	<b>G. Willmot</b>	<b>Harry Zheng</b>	<b>K.C. Cheung</b>	<b>Jiandong Ren</b>	<b>Ming Zhou</b>	<b>Bernard Wong</b>	<b>Bingzheng Chen</b>
10:30 - 10:50	Yasutaka Shimizu	Kamille Sofie Tågholt	K.C.J. Sung	Andrés Cuberos	Azadeh Bahador	David Lee	Narat Charupat
10:50 - 11:10	Corina Constantinescu	Tak Kuen Siu	Ali Panahi Bazaz	Fabio Bellini	Thomas Opitz	M. Teimourian Sefidekhan	Michał Krzeszowiec
11:10 - 11:30	Mi Chen	Jerome Pansera	Fangda Liu	Anna-Maria Hamm	Yiqing Chen	Matthias Fahrenwaldt	Kalev Pärna
11:30 - 11:50	José Garrido	Emanuela Rosazza Gianin	S.T. Boris Choy	Fan Yang	Qihe Tang	Jochen Heberle	Heng Sun
11:50 - 12:10	Xiaowen Zhou	Tiong Wee Lim	Alexandru V. Asimit	Jae Youn Ahn	Yi Zhang	P. Hewa Katuwandeniya	Colin M. Ramsay
12:10 - 14:00	Lunch						
Session (Venue)	Session 29 (T2)	Session 30 (T3)	Session 31 (T4)	Session 32 (T5)	Session 33 (T6)	Session 34 (T7)	Session 35 (T8)
	<b>Ruin Theory</b>	<b>Mathematical Finance</b>	<b>Credibility &amp; Optimal Reinsurance</b>	<b>Credit Risk</b>	<b>Statistics</b>	<b>Mortality</b>	<b>Insurance</b>
<b>Chair:</b>	<b>Benjamin Avanzi</b>	<b>E. Rosazza Gianin</b>	<b>S.T. Boris Choy</b>	<b>Tiong Wee Lim</b>	<b>Cary Chi-Liang Tsai</b>	<b>Hoi Ying Wong</b>	<b>Colin M. Ramsay</b>
14:00 - 14:20	Agnieszka I. Bergel	Shing-Fung Chung	S.C.P. Yam	Xuemiao Hao	Iqbal Owadally	Tat Wing Wong	Hongzhong Zhang
14:20 - 14:40	Christophe Dutang	Chi Seng Pun	Jianfa Cong	Harry Zheng	Shibin Song	Colin O'Hare	Andrey A. Kudryavtsev
14:40 - 15:00	Amir T. Payandeh Najafabadi	Shiu Fung Wong	Sandra Haas	Zhongyi Yuan	Arnold F. Shapiro	Yahia Salhi	Yang-Che Wu
15:00 - 15:20	S. Ramasubramanian	Li'an Qu	Georgios Pitselis	Bin Li	Choon Peng Tan	Annamaria Olivieri	Jun Gao
15:20 - 15:40	Eugenio V. Rodríguez	Weiyin Wang	Hee Seok Nam	Enrico Biffis	Jing Yao	Peng Qin	Maria Govorun
15:40 - 16:00	Coffee Break						
Session (Venue)	Session 36 (T2)	Session 37 (T3)	Session 38 (T4)	Session 39 (T5)	Session 40 (T6)	Session 41 (T7)	Session 42 (T8)
	<b>Ruin Theory</b>	<b>Mathematical Finance</b>	<b>EIA</b>	<b>Optimal Control</b>	<b>Statistics</b>	<b>Mortality</b>	<b>Applications</b>
<b>Chair:</b>	<b>David Landriault</b>	<b>Xiaowen Zhou</b>	<b>Xian Zhou</b>	<b>Hanspeter Schmidli</b>	<b>Yiqing Chen</b>	<b>Arnold F. Shapiro</b>	<b>Qihe Tang</b>
16:00 - 16:20	Stéphane Loisel	Yung-Tsung Lee	X. Sheldon Lin	Huiling Wu	Y.B. Koh	Yinglu Deng	Muhamad Abduh
16:20 - 16:40	Yi Lu	Jingtang Ma	Jonathan Ziveyi	Jiajia Cui	Qian Chen	Wai Sum Chan	Chi-Hung Chang
16:40 - 17:00	Esterina Masiello	Craig Blackburn	Xiaoming Liu	Xudong Zeng	Meelis Käärik	Cary Chi-Liang Tsai	Ying Liu
17:00 - 17:20	Eric C.K. Cheung	Yin Lin	Ming Hui Celeste Chai	Kevin Yuen	Jiahui Li	L.F.B. Henriksen	Lin Zhao
19:00 - 22:00	Banquet						

### 30 June 2012 Saturday

09:00 - 10:00	Parallel Sessions			
Session (Venue)	Session 43 (T4)	Session 44 (T5)	Session 45 (T6)	Session 46 (T7)
	<b>Applications</b>	<b>Applications</b>	<b>Optimal Insurance</b>	<b>Applications</b>
<b>Chair:</b>	<b>Guojing Wang</b>	<b>Andrew C.Y. Ng</b>	<b>Yi Lu</b>	<b>José Garrido</b>
09:00 - 09:20	Ming Pu	Lan Wu	Katja Müller	Ernst Juerg Weber
09:20 - 09:40	Ke Shang	Dejun Xie	Eric D. Ofosu-Hene	M.M. Nizamuddin
09:40 - 10:00	Pierre Ribereau	Jia-min Yu	Chengguo Weng	Jing Sun
10:10 - 11:10	<b>Plenary Talk - Chair : W.K. Li (RHT)</b> <i>Credit Portfolios, Credibility Theory, and Dynamic Empirical Bayes</i> <b>Lai Tze Leung</b>			
11:10 - 11:30	Coffee Break			
11:30 - 12:30	<b>Plenary Talk - Chair : Elias S.W. Shiu (RHT)</b> <i>Life Insurance in China</i> <b>Shirley Shao</b>			
12:30 - 13:00	Closing Ceremony			
13:00 - 14:15	Lunch			
18:30 - 21:30	Symphony of Lights Cruise with Dinner for those with tickets for June 30, 2012			

13 June 2012

SCIENTIFIC  
PROGRAMME



## SCIENTIFIC PROGRAMME – *Thursday 28 June*

Thursday 28 June : 08:45 – 09:10

### Opening Ceremony

**RHT**

Opening Speech – Professor Paul Tam, PVC of Research

Welcoming Speech – Professor David Dudgeon, Associate Dean of Science Faculty

### Photo Session

**RHT**

Thursday 28 June : 09:40 – 21:30

### Plenary Talk

09:40 – 10:40

**Chair: Hans U. Gerber**

**RHT**

*On the Interplay between Distortion, Mean Value and Haezendonck-Goovaerts Risk Measures*

Marc Goovaerts

10:40 – 11:00

*Coffee Break*

**RHT**

### Parallel Sessions

**Session 1:**

**Ruin Theory – Chair: David Dickson**

**T2**

11:10 – 11:30

*The Impact of a Claim-adjusted Premium Policy on the Risk of Solvency*  
Eric C.K. Cheung, David Landriault and Christiane Lemieux

11:30 – 11:50

*Some Finite Time Ruin Probabilities in the Classical Risk Model with Barriers*  
Shuanming Li and Yi Lu

11:50 – 12:10

*From Ruin to Bankruptcy for Compound Poisson Surplus Processes*  
Volkmar Lautscham and Hansjoerg Albrecher

12:10 – 12:30

*The Gerber-Shiu Function and the Generalized Cramér-Lundberg Model with Diffusion*  
David Landriault and Kristina P. Sendova

**Session 2: Mathematical Finance – Chair: Tak Kuen Siu T3**

11:10 – 11:30 *Pricing Inflation-Linked Hybrid Derivatives under Stochastic Interest Rates*  
Serena Tiong

11:30 – 11:50 *A Stochastic Maximum Principle for Mean-Field Models with Jumps and its Application to Finance*  
Yang Shen and Tak Kuen Siu

11:50 – 12:10 *Convex Capital Requirements for Large Portfolios*  
Thomas Knispel and Hans Föllmer

12:10 – 12:30 *A Stochastic Maximum Principle for a Markov Regime-Switching Jump-Diffusion Model and its Application to Finance*  
Xin Zhang, Robert J. Elliott and Tak Kuen Siu

**Session 3: EIA – Chair: Eric C.K. Cheung T4**

11:10 – 11:30 *The Value of Interest Rate Guarantees in Participating Life Insurance: Status Quo and Alternative Product Design*  
Martin Eling and Stefan Holder

11:30 – 11:50 *Risks Analysis of Guaranteed Equity Bond: Economic Capital Approach*  
Mohamed Elsheemy

11:50 – 12:10 *Analytical Calculation of Risk Measures for Variable Annuity Guaranteed Benefits*  
Runhuan Feng and Hans W. Volkmer

12:10 – 12:30 *Hedging Guaranteed Annuity Options under Non-Gaussian Market and Interest Rate Risks*  
Junichi Imai and Masanori Hatashita

**Session 4: Optimal Insurance – Chair: Zhongfei Li T5**

11:10 – 11:30 *Optimal Investment, Consumption and Life Insurance under Mean-Reverting Returns*  
Traian A. Pirvu and Huayue Zhang

11:30 – 11:50 *Optimal Investment for Insurer with Cointegrated Assets: CRRA Utility*  
Hoi Ying Wong and Mei Choi Chiu

11:50 – 12:10 *Optimal Reinsurance-investment Problem for an Insurer in an Incomplete Market*  
Hui Zhao, Ximin Rong and Haiyang Sun

12:10 – 12:30 *Optimal Portfolio Selection and Retirement for an Individual with Stochastic Lifetime*  
Lihong Zhang, Ting Ye and Baimin Yu

2012	SCIENTIFIC PROGRAMME – Thursday 28 June	17
<b>Session 5:</b>	<b>Risk Measure – Chair: Fabio Bellini</b>	<b>T6</b>
11:10 – 11:30	<i>Fuzzy Risk Measuring Method and Its Application in Insurance</i> <u>Ruijiang Wang</u> , Gaoming and Bingzheng Chen	
11:30 – 11:50	<i>Risk Measures in Non-Life Insurance</i> <u>Hanspeter Schmidli</u>	
11:50 – 12:10	<i>Multiannual Own Solvency Capital in Non Life Insurance</i> <u>Mohamed Talfi</u>	
12:10 – 12:30	<i>A Simulation Model for Calculating Solvency Capital Requirements for a Non-life Insurance Company</i> <u>Jonas Alm</u>	
<b>Session 6:</b>	<b>Mortality – Chair: Georgios Pitselis</b>	<b>T7</b>
11:10 – 11:30	<i>Longevity Risk in Last Survivor Annuities</i> <u>Min Ji</u> , Mary Hardy and Johnny Siu-Hang Li	
11:30 – 11:50	<i>Aggregating Survival Models: Individual vs. Population Mortality Dynamics</i> <u>Ramona Meyricke</u> and Michael Sherris	
11:50 – 12:10	<i>It Takes Two: Why Mortality Trend Modelling is more than Modelling One Mortality Trend</i> <u>Matthias Börger</u> and Jochen Russ	
12:10 – 12:30	<i>Essays on Graduation of Mortality by Adaptive Local Kernel-weighted Log-likelihood</i> <u>Julien Tomas</u>	
<b>Session 7:</b>	<b>Applications – Chair: Choon Peng Tan</b>	<b>103</b>
11:10 – 11:30	<i>Mathematical Modelling of the Mortgage Default Rate in Spain</i> <u>Lucas Jódar</u> and Elena De la Poza	
11:30 – 11:50	<i>Profit Distribution of Life Insurance Contract and Earning Cycle of Life Insurance Company — A Research Based on Different Financial Report Standards</i> <u>Sujin Zheng</u> and Yue Liu	
11:50 – 12:10	<i>Fractal Analysis and its Application in Iran Financial Market</i> Seyeed Mohammad Karimi, Ghadir Mahdavi and <u>Khashayar Tashtzar</u>	
12:10 – 12:30	<i>Pricing and Insolvency Risk Evaluating of Embedded Options in Universal Insurance Considering Mortality Rate</i> Haitao Zheng, <u>Qiyao Luo</u> , Ruoen Ren and Zhongfeng Qin	
12:30 – 14:00	<i>Lunch</i>	<b>Canteen (FOOD<sup>2</sup>)</b>

**Session 8: Loss Models – Chair: Jae-Kyung Woo T2**

14:00 – 14:20 *Recursions and Fast Fourier Transforms for a New Bivariate Aggregate Loss Model*

Tao Jin and Jiandong Ren

14:20 – 14:40 *Longitudinal Modeling of Insurance Claim Counts Using Jitters*

Emiliano A. Valdez

14:40 – 15:00 *Distribution of the Number of IBNR Claims*

Yafang Wang

15:00 – 15:20 *On Two Bivariate Risk Theory Problems*

Landy Rabehasaina

**Session 9: Optimal Dividends – Chair: Kam C. Yuen T3**

14:00 – 14:20 *Optimal Dividends in a Perturbed Cramér-Lundberg Model with Stochastic Prospects and a Penalty at Ruin*

Benjamin Avanzi, Bernard Wong and Timothy Yip

14:20 – 14:40 *Optimal Combinational Dividend Policy*

Ming Zhou

14:40 – 15:00 *A Numerical Approach to Optimal Dividend Policies with Capital Injections and Transaction Costs*

Zhuo Jin, Hailiang Yang and George Yin

15:00 – 15:20 *Optimal Dividend and Equity Issuance Problem with Proportional and Fixed Transaction Cost*

Xiaofan Peng, Mi Chen and Junyi Guo

**Session 10: EIA – Chair: X. Sheldon Lin T4**

14:00 – 14:20 *Pricing Equity-Indexed Annuities in a Stochastic Interest Rates Environment*  
Abdou Kelani and François Quittard-Pinon

14:20 – 14:40 *A Dynamic Programming Algorithm for the Valuation of GMWB Variable Annuities under the Heston Model*

Pietro Millosovich, Anna Rita Bacinello and Alvaro Montealegre

14:40 – 15:00 *Valuation of Flexible Premium Equity-Indexed Annuities with Partial Withdraw and Surrender*

Xiao Wei and Sha Li

15:00 – 15:20 *A Flexible Tree for Evaluating Guaranteed Minimum Withdrawal Benefits with Surrender Options under Stochastic Interest Rate Environment*

Sharon S. Yang

2012	SCIENTIFIC PROGRAMME – Thursday 28 June	19
<b>Session 11:</b>	<b>Optimal Insurance – Chair: Lihong Zhang</b>	<b>T5</b>
14:00 – 14:20	<i>Optimal Proportional Reinsurance and Investment with Regime-switching for Mean-variance Insurers</i> <u>Ping Chen</u> , Ka Chun Joseph Sung and Sheung Chi Philip Yam	
14:20 – 14:40	<i>Optimal Reinsurance and Investment with Unobservable Claim Size and Intensity</i> <u>Zhibin Liang</u> and Erthan Bayraktar	
14:40 – 15:00	<i>Optimal Robust Reinsurance and Investment Strategy for an Insurer under Stochastic Volatility Model</i> <u>Zhongfei Li</u> , Bo Yi and Yan Zeng	
15:00 – 15:20	<i>Time-inconsistent Investment and Reinsurance Problems for Insures in a Jump Diffusion Market</i> <u>Yan Zeng</u> , Zhongfei Li and Yongzeng Lai	
<b>Session 12:</b>	<b>Dependence – Chair: Stéphane Loisel</b>	<b>T6</b>
14:00 – 14:20	<i>Multivariate Modeling of Automobile Insurance</i> <u>Yunjie (Winnie) Sun</u>	
14:20 – 14:40	<i>Capturing Non-Exchangeable Dependence in Multivariate Loss Processes with Nested Archimedean Lévy Copulas</i> Benjamin Avanzi, Jamie Tao and <u>Bernard Wong</u>	
14:40 – 15:00	<i>GLM Approach to Parameter Estimation of Copulas</i> Amir T. Payandeh Najafabadi, Mohammad R., Farid-Rohani and <u>Marjan Qazvini</u>	
15:00 – 15:20	<i>Optimal Constrained Investment and Reinsurance in Lundberg Insurance Models</i> <u>Alireza Edalati Nozadi</u>	
<b>Session 13:</b>	<b>Pension and Retirement – Chair: S.C. Philip Yam</b>	<b>T7</b>
14:00 – 14:20	<i>A New Credibility Factor for Setting Assumptions of Defined Benefit Pension Plans</i> <u>Mayur Ankolekar</u> and Vishal Narang	
14:20 – 14:40	<i>Pension Funds in Switzerland: What Can Be Learned from Academia</i> <u>Séverine Gaille</u>	
14:40 – 15:00	<i>Economic Capital for Defined Benefit Pension Schemes: An Application to the UK Universities Superannuation Scheme</i> <u>Wei Yang</u> , Pradip Tapadar and Bruce T Porteous	
15:00 – 15:20	<i>Longitudinal Analysis of Mortality Risk Factors for Actuarial Valuation</i> <u>Ushani Dias Kariyawasam Majuwana Gamage</u> and Emiliano A. Valdez	

**Session 14: Applications – Chair: Shuanming Li 103**

14:00 – 14:20 *A Study on Underwriting Cycle of Property Insurance Industry of China*  
Lin Zhang and Linjuan Tang

14:20 – 14:40 *A Study on Projecting Future Cost of Long Term Care Insurance for the Elderly in Korea*  
Hyuk-Sung Kwon and Chang-Soo Lee

14:40 – 15:00 *The Determinants of Reinsurance Demand in the Iranian Insurance Market*  
Ghadir Mahdavi, Seyed Mohammad Karim and Somayeh Bassati

15:00 – 15:20 *Long Memory in Temperature: Detection, Modeling, and Application to Weather Insurance*  
Jr-Wei Huang, Sharon S. Yang and Chuang-Chang Chang

15:20 – 15:40 *Coffee Break* **Open Area, G/F, MW Complex**

**Session 15: Loss Models – Chair: Emiliano A. Valdez T2**

15:40 – 16:00 *Developing the Collective Risk Model with the Generalized Discrete Lindley Distribution*  
Enrique Calderín and Emilio Gómez-Déniz

16:00 – 16:20 *Analysis of a New Multivariate Aggregate Loss Model*  
Jiandong Ren

16:20 – 16:40 *The Discounted Compound Renewal Sums under Dependency*  
Jae-Kyung Woo and Eric C.K. Cheung

16:40 – 17:00 *An Approximation via Panjer's Recursion for Poisson-Mixture Models*  
Cordelia Rudolph and Uwe Schmock

**Session 16: Mathematical Finance – Chair: Enrico Biffis T3**

15:40 – 16:00 *Detection of Arbitrage in a Market with Multi-asset Derivatives and Known Risk-Neutral Marginals*  
Bertrand Tavin

16:00 – 16:20 *Optimal Investment and Consumption Decisions under the Ho-Lee Model*  
Hao Chang, Xi-min Rong, Hui Zhao and Chubing Zhang

16:20 – 16:40 *Robust Hedging in Incomplete Markets*  
Sally Shen, Antoon Pelsser and Peter Schotman

16:40 – 17:00 *Comparisons of Investment Performances between Dynamic Investment Strategy and Static Investment Strategy for a Long-term Liability*  
Hong-Chih Huang, Yung-Tsung Lee and Martin Halek

2012	SCIENTIFIC PROGRAMME – Thursday 28 June	21
<b>Session 17:</b>	<b>EIA – Chair: Junyi Guo</b>	<b>T4</b>
15:40 – 16:00	<i>Valuation Inflation-linked Annuity Using an HJM Model</i> Sharon S. Yang, Ting-Pin Wu and <u>Yu-Yun Yeh</u>	
16:00 – 16:20	<i>Hedging of Equity-linked with Maximal Success Factor</i> <u>Przemyslaw Klusik</u>	
16:20 – 16:40	<i>Optimal Consumption, Investment and Life Insurance with Surrender Option Guarantee</i> <u>Morten Tolver Kronborg</u> and Mogens Steffensen	
16:40 – 17:00	<i>Adapted Dependence for Pricing Unit-linked Life Insurances</i> <u>Karin Hirhager</u> and Uwe Schmock	
<b>Session 18:</b>	<b>Credit Risk – Chair: Serena Tiong</b>	<b>T5</b>
15:40 – 16:00	<i>Bayesian Analysis of Structure Credit Risk Models with Micro-structure Noises and Jump Diffusion</i> <u>Sau-lung Chan</u> , Kwok-wah Ho and Hoi Ying Wong	
16:00 – 16:20	<i>On a Reduced Form Credit Risk Model with Common Shock and Regime Switching</i> <u>Guojing Wang</u> and Xue Liang	
16:20 – 16:40	<i>New Structural Approach and Default Risk; the Firm's Value will Survive Even if the Process Value, is Crossed of the Threshold Default Level</i> <u>Arsalan Azamighaimasi</u>	
16:40 – 17:00	<i>Dynamic Incentives with Event Risk</i> Enrico Biffis and <u>Caterina Lepore</u>	
<b>Session 19:</b>	<b>Dependence – Chair: Jan Dhaene</b>	<b>T6</b>
15:40 – 16:00	<i>Dependence Modeling and Claims Inflation in Multivariate Claims Run-Off Triangles</i> <u>Mario V. Wüthrich</u> , Michael Merz and Enkelejd Hashorva	
16:00 – 16:20	<i>Stochastic Bounds on Conditional Distributions under Positive Dependence</i> <u>Miguel A. Sordo</u> and Alfonso Suárez-Llorens	
16:20 – 16:40	<i>Measuring Dependence Using the Distribution of the Sum</i> <u>Daniël Linders</u> , Jan Dhaene and Alexander Kukush	
16:40 – 17:00	<i>Sum of Bernoulli Mixtures: Beyond Conditional Independence</i> <u>Taehan Bae</u> and Ian Iscoe	

**Session 20: Pension and Retirement – Chair: Wai Sum Chan T7**

15:40 – 16:00 *The Impact of Longevity Risk Component of Economic Capital on UK Annuity Portfolios*

Mayukh Gayen

16:00 – 16:20 *Does Reverse Mortgage Can Improve the Welfare of Retired People? — From the Perspective of Life Cycle*

Minan Huang and Bingzheng Chen

16:20 – 16:40 *Management of Pension Funds when Asset Returns are Driven by Lévy Processes*

Olivier Le Courtois and Francesco Menoncin

16:40 – 17:00 *A Study on the Inflation Risk of Individual Accounts of the Social Pension Fund in China*

Kai Chen and Yu Duan

**Session 21: Applications – Chair: Lan Wu 103**

15:40 – 16:00 *Regulatory Forbearance on the Fair Premium of Ex-Ante Life Insurance Guarantee Schemes*

Shih-Chieh Bill Chang, Yang-Che Wu and Ya-Wen Hwang

16:00 – 16:20 *Asset and Liability Composition in Participating Life Insurance: The Impact on Shortfall Risk and Shareholder Value*

Alexander Bohnert, Nadine Gatzert and Peter Løchte Jørgensen

16:20 – 16:40 *Design of Peak Runoff Index Insurance in Taiwan*

Shu-Ling Chen, Jow-Ran Chang and Yu-Lieh Huang

16:40 – 17:00 *Valuation and Risk Assessment of Disability Insurance using a Discrete Time Non-homogeneous Backward Semi-Markov Reward Process*

Alexander Mägebier

18:30 – 21:30 Symphony of Lights Cruise with Dinner *for those with tickets for June 28.*

- For those with cruise tickets, assemble for transportation at **17:30** at Rayson Huang Theatre (RHT), Runme Shaw Building 黃麗松講堂，邵仁枚樓.
- For those who will not take the transportation, please arrive at Pier 9, Central at least 15 minutes early.

SCIENTIFIC PROGRAMME – *Friday 29 June*

Friday 29 June : 09:00 – 22:00
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**Plenary Talk**

09:00 – 10:00	<b>Chair: Hansjoerg Albrecher</b> <i>Stochastic Control Applications in Life Insurance</i> <u>Mogens Steffensen</u>	<b>RHT</b>
10:00 – 10:20	<i>Coffee Break</i>	<b>RHT</b>

**Parallel Sessions**

<b>Session 22:</b>	<b>Ruin Theory – Chair: G. Willmot</b>	<b>T2</b>
10:30 – 10:50	<i>Ruin-related Quantities under Markov Additive Risk Models: A Matrix Operator Approach</i> <u>Yasutaka Shimizu</u> and Runhuan Feng	
10:50 – 11:10	<i>Risk Theory with Solvency Targets</i> <u>Corina Constantinescu</u> , Veronique Maume-Deschamps and Ragnar Norberg	
11:10 – 11:30	<i>Expected Discounted Dividends in a Discrete Semi-Markov Risk Model</i> <u>Mi Chen</u> and Junyi Guo	
11:30 – 11:50	<i>Finite Time Gerber–Shiu Function for Lévy Risk Models</i> <u>José Garrido</u> and Xiaowen Zhou	
11:50 – 12:10	<i>A Diffusion Risk Process with Poisson Observations</i> <u>Xiaowen Zhou</u>	
<b>Session 23:</b>	<b>Mathematical Finance – Chair: Harry Zheng</b>	<b>T3</b>
10:30 – 10:50	<i>Variance Optimal Stopping Problem on Geometric Lévy Processes</i> <u>Kamille Sofie Tågholt</u>	
10:50 – 11:10	<i>Functional Ito's Calculus and Dynamic Convex Risk Measures for Derivative Securities</i> <u>Tak Kuen Siu</u>	
11:10 – 11:30	<i>Consistent Estimation of Finite-Dimensional Markov Interest-Rate Models</i> <u>Jerome Pansera</u>	

24	SCIENTIFIC PROGRAMME – Friday 29 June	28-30 June
11:30 – 11:50	<i>Acceptability Indexes via g-expectations: An Application to Liquidity Risk</i> <u>Emanuela Rosazza Gianin</u> and Carlo Sgarra	
11:50 – 12:10	<i>Pricing and Hedging Fund Protection Options with Transaction Costs</i> <u>Tiong Wee Lim</u>	
<b>Session 24:</b>	<b>Credibility and Optimal Reinsurance – Chair: K.C. Cheung</b>	<b>T4</b>
10:30 – 10:50	<i>A Nonzero-Sum Stochastic Differential Reinsurance Game with Mixed Regime Switching</i> A. Bensoussan, <u>K.C.J. Sung</u> , S.C.P. Yam and S.P. Yung	
10:50 – 11:10	<i>Proportional-Stop-Loss Reinsurance</i> <u>Ali Panahi Bazaz</u> , and Amir T. Payandeh Najafabadi	
11:10 – 11:30	<i>Optimal Reinsurance under Average Value-at-Risk and Wang’s Premium Principle with Constraints</i> <u>Fangda Liu</u> , K.C. Cheung, S.C.P. Yam and S.P. Yung	
11:30 – 11:50	<i>Contaminated Transformed Beta Distribution for Loss Reserving</i> <u>S.T. Boris Choy</u> , Jennifer S.K. Chan and Udi E Makov	
11:50 – 12:10	<i>Optimal Risk Transfer with Multiple Reinsurers</i> <u>Alexandru V. Asimit</u> and Alexandru M. Badescu	
<b>Session 25:</b>	<b>Risk Measure – Chair: Jiandong Ren</b>	<b>T5</b>
10:30 – 10:50	<i>Kernel Based Estimation of the Spectral Measure</i> <u>Andrés Cuberos</u> , Esterina Masiello and Véronique Maume-Deschamps	
10:50 – 11:10	<i>Generalized Quantiles and Deviation Measures</i> <u>Fabio Bellini</u> and Emanuela Rosazza Gianin	
11:10 – 11:30	<i>Liquidity - Adjusted Risk Measures</i> <u>Anna-Maria Hamm</u>	
11:30 – 11:50	<i>Asymptotics for the Haezendonck-Goovaerts Risk Measure under a General Young Function</i> <u>Fan Yang</u> and Qihe Tang	
11:50 – 12:10	<i>On Some Properties of the Haezendonck-Goovaerts Risk Measures and Orlicz Quantiles</i> <u>Jae Youn Ahn</u> , Ralph P. Russo and Nariankadu D. Shyamalkumar	

2012	SCIENTIFIC PROGRAMME – Friday 29 June	25
<b>Session 26:</b>	<b>Extreme Value Theory – Chair: Ming Zhou</b>	<b>T6</b>
10:30 – 10:50	<i>Extreme Value Theory and Its Application in Estimation</i> <u>Azadeh Bahador</u> , Mitra Safaeian, Mahmoud Sabzi, Ali Farhoudifazli and Nasrolah Hasanzadeh	
10:50 – 11:10	<i>Threshold-based Extremal Inference with Angular Measures</i> <u>Thomas Opitz</u>	
11:10 – 11:30	<i>Precise Large Deviations of Aggregate Claims in a Time-Dependent Renewal Risk Model</i> <u>Yiqing Chen</u> and Kam C. Yuen	
11:30 – 11:50	<i>Versatility of Randomly Weighted Sums in Insurance, Finance and Risk Management</i> <u>Qihe Tang</u> and Zhongyi Yuan	
11:50 – 12:10	<i>Evaluate Multivariate VaR and CVaR for the Aggregate of Heavy-Tailed Risk Vectors by an Asymptotical Approach</i> <u>Yi Zhang</u> and Chengguo Weng	
<b>Session 27:</b>	<b>Statistics – Chair: Bernard Wong</b>	<b>T7</b>
10:30 – 10:50	<i>Modeling Insurance Claims via a Mixture Exponential Model Combined with Peaks-over-threshold Approach</i> <u>David Lee</u> , Wai Keung Li and Tony Siu Tung Wong	
10:50 – 11:10	<i>Bayesian Inference for Truncated Skew-normal Linear Mixed Effects Model in Insurance</i> <u>M. Teimourian Sefidekhan</u> , T. Baghfalaki and M. Ganjali	
11:10 – 11:30	<i>Sensitivity of Solutions of a Market Consistent Thiele Equation</i> <u>Matthias Fahrenwaldt</u>	
11:30 – 11:50	<i>Bootstrapping the Ultimate Claims of Cumulative Payments and Claims-incurred Data using Kalman-filter Theory</i> <u>Jochen Heberle</u>	
11:50 – 12:10	<i>Multivariate Longitudinal Data Analysis for Actuarial Applications</i> <u>Priyantha Hewa Katuwandeniya</u> and Emiliano A. Valdez	
<b>Session 28:</b>	<b>Insurance – Chair: Bingzheng Chen</b>	<b>103</b>
10:30 – 10:50	<i>The Annuity Duration Puzzle</i> <u>Narat Charupat</u> , Mark Kamstra and Moshe A. Milevsky	
10:50 – 11:10	<i>Pricing Insurance Contracts under Cumulative Prospect Theory</i> Marek Kałuszka and <u>Michał Krzeszowiec</u>	

26	SCIENTIFIC PROGRAMME – Friday 29 June	28-30 June
11:10 – 11:30	<i>Statistical Learning Methods in Pricing Non-Life Insurance Products</i> <u>Kalev Pärna</u> and Raul Kangro	
11:30 – 11:50	<i>Using Waiting Periods in Optimal Contract Designs to Control Adverse Selection in Microinsurance</i> <u>Heng Sun</u> and Colin M. Ramsay	
11:50 – 12:10	<i>Pricing High-Risk and Low-Risk Insurance Contracts with Incomplete Information and Expenses</i> <u>Colin M. Ramsay</u> , Victor I. Oguledo and Priya A. Pathak	
12:10 – 14:00	<i>Lunch</i>	<b>Canteen (FOOD<sup>2</sup>)</b>
<b>Session 29:</b>	<b>Ruin Theory – Chair: Benjamin Avanzi</b>	<b>T2</b>
14:00 – 14:20	<i>Notes on the Generalized Erlang(n) Risk Model</i> <u>Agnieszka I. Bergel</u> and Alfredo D. Egídio dos Reis	
14:20 – 14:40	<i>New Asymptotics for the Ultimate Ruin Probability</i> <u>Christophe Dutang</u> , Claude Lefèvre and Stéphane Loisel	
14:40 – 15:00	<i>Ruin Probability Approach to the Bonus-Malus System</i> <u>Amir T. Payandeh Najafabadi</u> and Dan Kucerovsky	
15:00 – 15:20	<i>A Multidimensional Ruin Problem</i> <u>S. Ramasubramanian</u>	
15:20 – 15:40	<i>Some Advances on the Erlang(n) Dual Risk Model</i> <u>Eugenio V. Rodríguez</u> , Rui M. R. Cardoso and Alfredo D. Egídio dos Reis	
<b>Session 30:</b>	<b>Mathematical Finance – Chair: E. Rosazza Gianin</b>	<b>T3</b>
14:00 – 14:20	<i>A Closed-Form Solution for Arithmetic Asian Options under a Mean Reverting Jump Diffusion Model</i> <u>Shing-Fung Chung</u> and Hoi-Ying Wong	
14:20 – 14:40	<i>CEV Asymptotics of Options with Early Exercise Feature</i> <u>Chi Seng Pun</u> and Hoi Ying Wong	
14:40 – 15:00	<i>On New Approach of Extracting Option Implied Volatility Surface</i> <u>Shiu Fung Wong</u> , Hoi Ying Wong and Tak Kuen Siu	
15:00 – 15:20	<i>Risk Preference Based Binary Call Options in Fractional Jump-Diffusion Models</i> <u>Li'an Qu</u> and Xin Zhang	
15:20 – 15:40	<i>FFT-network for Bivariate Levy Option Pricing</i> <u>Weiyin Wang</u> and Hoi Ying Wong	

2012	SCIENTIFIC PROGRAMME – Friday 29 June	27
<b>Session 31:</b>	<b>Credibility and Optimal Reinsurance – Chair: S.T. Boris Choy</b>	<b>T4</b>
14:00 – 14:20	<i>Risk-Minimizing Insurance Protection for Multivariate Risks</i> K.C. Cheung, K.C.J. Sung, <u>S.C.P. Yam</u> and S.P. Yung	
14:20 – 14:40	<i>Optimal Reinsurance under Piecewise Premium Principles</i> <u>Jianfa Cong</u> and Ken Seng Tan	
14:40 – 15:00	<i>The Perturbation Approach for Optimal Reinsurance Contracts</i> <u>Sandra Haas</u> and Hansjoerg Albrecher	
15:00 – 15:20	<i>Some New Developments in Quantile Credibility Models</i> <u>Georgios Pitselis</u>	
15:20 – 15:40	<i>An Extension of Proper Hedges in Partial Hedging</i> <u>Hee Seok Nam</u>	
<b>Session 32:</b>	<b>Credit Risk – Chair: Tiong Wee Lim</b>	<b>T5</b>
14:00 – 14:20	<i>Finite-time Survival Probability and Credit Default Swaps Pricing under Geometric Lévy Markets</i> <u>Xuemiao Hao</u> , Xuan Li and Yasutaka Shimizu	
14:20 – 14:40	<i>A Generic First Passage Model with Random Barrier and Information Feedback for Correlated Defaults</i> <u>Harry Zheng</u>	
14:40 – 15:00	<i>Conditional Tail Expectation for Portfolio Losses with Applications to Credit Risk Management</i> <u>Zhongyi Yuan</u> and Qihe Tang	
15:00 – 15:20	<i>Default Risk of a Time-homogeneous Diffusion Model</i> <u>Bin Li</u> , Qihe Tang and Xiaowen Zhou	
15:20 – 15:40	<i>Optimal Collateralization under Bilateral Default Risk</i> Daniel Bauer, <u>Enrico Biffis</u> and Luz Rocio Sotomayor	
<b>Session 33:</b>	<b>Statistics – Chair: Cary Chi-Liang Tsai</b>	<b>T6</b>
14:00 – 14:20	<i>ARCH Models, Bilinear Processes, and Tail Risk in Pension Plans</i> <u>Iqbal Owadally</u>	
14:20 – 14:40	<i>Games Analysis about Insured's Insurance Fraud under Considering Auditing Efficiency</i> <u>Shibin Song</u> and Dan Cai	
14:40 – 15:00	<i>Choosing Appropriate Metrics for Fuzzy Random Variables</i> <u>Arnold F. Shapiro</u>	

28	SCIENTIFIC PROGRAMME – Friday 29 June	28-30 June
15:00 – 15:20	<i>Dirichlet Universal Portfolios of Finite Order</i> <u>Choon Peng Tan</u> , Sin Yen Chu and Wei Xiang Lim	
15:20 – 15:40	<i>A Note on Stein's Lemma for Multivariate Elliptical Distributions</i> <u>Jing Yao</u> , Zinoviy Landsman and Steven Vanduffel	
<b>Session 34:</b>	<b>Mortality – Chair: Hoi Ying Wong</b>	<b>T7</b>
14:00 – 14:20	<i>Managing Mortality Risk with Longevity Bonds when Mortality Rates are Cointegrated</i> <u>Tat Wing Wong</u> , Mei Choi Chiu and Hoi Ying Wong	
14:20 – 14:40	<i>Identifying Structural Breaks in Stochastic Mortality Models</i> <u>Colin O'Hare</u> and Youwei Li	
14:40 – 15:00	<i>Detection of Abrupt Change on Mortality Trend</i> <u>Yahia Salhi</u> , Nicole El Karoui, Stép'hane Loisel and Christian Mazza	
15:00 – 15:20	<i>Forecasting Mortality for Small Populations by Mixing Mortality Data</i> Ales Ahcan, Darko Medved, <u>Annamaria Olivieri</u> and Ermanno Pitacco	
15:20 – 15:40	<i>House Price Forecast Modeling — Implications for the Valuation of Reverse Mortgage Contracts</i> <u>Peng Qin</u> , Bingzheng Chen and Lin Zhao	
<b>Session 35:</b>	<b>Insurance – Chair: Colin M. Ramsay</b>	<b>103</b>
14:00 – 14:20	<i>Stochastic Modeling and Fair Valuation of Drawdown Insurance</i> <u>Hongzhong Zhang</u> , Tim Leung and Olympia Hadjiliadis	
14:20 – 14:40	<i>The Dynamic of Life Insurance Reserve when the Force of Interest Depends on the Size of the Reserve</i> <u>Andrey A. Kudryavtsev</u> and Anna A. Faizova	
14:40 – 15:00	<i>Valuation of Mortgage Insurance under Stochastic Termination and Interest Rates</i> <u>Yang-Che Wu</u>	
15:00 – 15:20	<i>Potential Demand of Life Insurance and Its Regional Exploitation Degree in China: A Stochastic Frontier Analysis Method</i> <u>Jun Gao</u> and Bingzheng Chen	
15:20 – 15:40	<i>Valuation of Long-term Medical Contracts</i> <u>Maria Govorun</u> , Guy Latouche and Stephane Loisel	
15:40 – 16:00	<i>Coffee Break</i>	<b>Open Area, G/F, MW Complex</b>

2012	SCIENTIFIC PROGRAMME – Friday 29 June	29
<b>Session 36:</b>	<b>Ruin Theory – Chair: David Landriault</b>	<b>T2</b>
16:00 – 16:20	<i>On the DeVyllder and Goovaerts Conjecture about Ruin for Equalized Claims</i> <u>Stéphane Loisel</u> , Jean-Charles Croix, Claude Lefèvre, Philippe Picard and Christian Robert	
16:20 – 16:40	<i>On the Generalized Gerber-Shiu Function for Surplus Processes with Interest</i> <u>Yi Lu</u> and Shuanming Li	
16:40 – 17:00	<i>On Ruin Probability and Climate Change</i> Dominik Kortschak, <u>Esterina Masiello</u> and Pierre Ribereau	
17:00 – 17:20	<i>On a Periodic Dividend Barrier Strategy in the Dual Model with Continuous Monitoring of Risk</i> <u>Eric C.K. Cheung</u> , Benjamin Avanzi, Bernard Wong and Jae-Kyung Woo	
<b>Session 37:</b>	<b>Mathematical Finance – Chair: Xiaowen Zhou</b>	<b>T3</b>
16:00 – 16:20	<i>Optimal Asset Allocation - A Numerical Approach of Dynamic Programming Problems</i> <u>Yung-Tsung Lee</u> and Hong-Chih Huang	
16:20 – 16:40	Improvement of Least Square Monte-Carlo Methods for Pricing American-Style Options <u>Jingtang Ma</u> and Dongya Deng	
16:40 – 17:00	<i>Pricing European Options on Deferred Insurance Contracts</i> <u>Craig Blackburn</u> , Jonathan Ziveyi and Michael Sherris	
17:00 – 17:20	<i>A Converse Comparison Theorem for Discrete-time Finite-state BSDEs and Risk Measures Using g-expectations</i> <u>Yin Lin</u>	
<b>Session 38:</b>	<b>EIA – Chair: Xian Zhou</b>	<b>T4</b>
16:00 – 16:20	<i>Are Flexible Premium Variable Annuities Under-priced?</i> <u>X. Sheldon Lin</u> and Yichun Chi	
16:20 – 16:40	<i>Method of Lines Approach for Pricing Guaranteed Annuity Options</i> <u>Jonathan Ziveyi</u> , Craig Blackburn and Michael Sherris	
16:40 – 17:00	<i>A Comonotonicity-based Valuation Method for Annuity-linked Contracts</i> <u>Xiaoming Liu</u> , Rogemar Mamon and Huan Gao	
17:00 – 17:20	<i>Valuation of EIAs with the Threshold GARCH Model</i> <u>Ming Hui Celeste Chai</u> , Tak Kuen Siu and Xian Zhou	

30	SCIENTIFIC PROGRAMME – Friday 29 June	28-30 June
<b>Session 39:</b>	<b>Optimal Control – Chair: Hanspeter Schmidli</b>	<b>T5</b>
16:00 – 16:20	<i>Optimal Investment and Consumption Model with State-dependent Discount Rate: a Discrete-time Model</i> <u>Huiling Wu</u> and Yan Zeng	
16:20 – 16:40	<i>When Do Derivatives Add Value in Asset Allocation Problems for Pension Funds?</i> <u>Jiajia Cui</u> , Bart Oldenkamp and Michel Vellekoop	
16:40 – 17:00	<i>Optimal Consumption and Portfolio Choice with Life Insurance under Uncertainty and Borrowing Constraints</i> <u>Xudong Zeng</u>	
17:00 – 17:20	<i>Optimal Asset Allocation - Risk and Information Uncertainty</i> <u>Kevin Yuen</u> , Phillip Yam and Joseph Sung	
<b>Session 40:</b>	<b>Statistics – Chair: Yiqing Chen</b>	<b>T6</b>
16:00 – 16:20	<i>Forecasting the Collapse of Speculative Bubbles: A Markov Regime-Switching Approach</i> <u>Y.B. Koh</u> and H. Yang	
16:20 – 16:40	<i>Bayesian Methods for Estimation, Inference and Forecasting of Flexible Models for Value-at-Risk and Tail Conditional Expectation</i> <u>Qian Chen</u>	
16:40 – 17:00	<i>Composite Models for Fitting Loss Distributions</i> <u>Meelis Käärik</u> and Anastassia Žegulova	
17:00 – 17:20	<i>A Discrete-time Risk Model with Integer-valued ARCH Claim-number Process</i> <u>Jiahui Li</u> and Kam C. Yuen	
<b>Session 41:</b>	<b>Mortality – Chair: Arnold F. Shapiro</b>	<b>T7</b>
16:00 – 16:20	<i>Incorporating Longevity Risk and Medical Information into Life Settlement Pricing</i> Patrick L. Brockett, Shuo-li Chuang, <u>Yinglu Deng</u> and Richard D. MacMinn	
16:20 – 16:40	<i>Time-Simultaneous Mortality Fan Charts: Construction and Applications</i> <u>Wai Sum Chan</u> and Johnny Siu-Hang Li	
16:40 – 17:00	<i>A Simple Linear Regression Approach to Modeling and Forecasting Morality Rates: Empirical Comparisons with Lee-Carter and CBD Models</i> <u>Cary Chi-Liang Tsai</u> and Tzuling Lin	
17:00 – 17:20	<i>Local Risk-minimization with Longevity Bonds</i> <u>Lars Frederik Brandt Henriksen</u> and Thomas Møller	

2012	SCIENTIFIC PROGRAMME – Friday 29 June	31
<b>Session 42:</b>	<b>Applications – Chair: Qihe Tang</b>	<b>103</b>
16:00 – 16:20	<i>Measuring the Performance of Insurance Industry in Malaysia: Islamic vis-à-vis Conventional Insurance</i> <u>Muhamad Abduh</u> , Mohd Azmi Omar and Raudhah Mohd Tarmizi	
16:20 – 16:40	<i>Country Risks and Insurance Demand: Some International Evidence</i> Chien-Chiang Lee, Yi-Bin Chiu and <u>Chi-Hung Chang</u>	
16:40 – 17:00	<i>Asymmetric Information in Motor Insurance Market in China: Differences in Lines and Regions</i> <u>Ying Liu</u> and Yanyan Ren	
17:00 – 17:20	<i>Quantifying the Impact of Partial Information on Sharpe Ratio Optimization</i> <u>Lin Zhao</u> and Lihong Zhang	
19:00 – 22:00	<i>Banquet at City Hall Maxim’s Palace, Low Block 2/F, Central, Hong Kong</i> 大會堂美心皇宮，低座二樓，中環 Assemble for transportation at 18:00 at Rayson Huang Theatre (RHT) .	

SCIENTIFIC PROGRAMME – *Saturday 30 June*

Saturday 30 June : 09:00 – 14:15

**Parallel Sessions**

- Session 43: Applications – Chair: Guojing Wang** **T4**
- 09:00 – 09:20 *The Valuation of Mortgage Insurances under Information Asymmetry*  
Ming Pu and Gang-Zhi Fan
- 09:20 – 09:40 *Ambiguity and Intellectual Resource Allocation for Insurers*  
Ke Shang and Lihong Zhang
- 09:40 – 10:00 *Information Aggregation and Kriging Alternative in a Noisy Environment*  
Pierre Ribereau and Didier Rullière
- Session 44: Applications – Chair: Andrew C.Y. Ng** **T5**
- 09:00 – 09:20 *Scenario Generating Method of Stress Testing*  
Lan Wu
- 09:20 – 09:40 *Analytical and Numerical Characterization of Mortgage Prepayment and Refinancing Strategies*  
Dejun Xie
- 09:40 – 10:00 *An Empirical Study on China's Growth of Property Insurance by Autoregressive Distributed Lag Model*  
Jia-min Yu
- Session 45: Optimal Insurance – Chair: Yi Lu** **T6**
- 09:00 – 09:20 *Insurance Claims Fraud: Optimal Auditing Strategies in Insurance Companies*  
Katja Müller, Hato Schmeiser and Joël Wagner
- 09:20 – 09:40 *Investment Strategy in the Absence of a Risk-free Domestic Government Bond*  
Eric D. Ofosu-Hene and Paul J. Sweeting
- 09:40 – 10:00 *Constant Proportion Portfolio Insurance under Trading Cost: Adaptive Revision Versus Discrete Revision*  
Chengguo Weng

2012	SCIENTIFIC PROGRAMME – Saturday 30 June	33
<b>Session 46:</b>	<b>Applications – Chair: José Garrido</b>	<b>T7</b>
09:00 – 09:20	<i>How Australian Farmers Deal With Risk</i> <u>Ernst Juerg Weber</u> and Amy Khuu	
09:20 – 09:40	<i>An Analysis of Market Share of Private Life Insurers in India</i> R.K. Sinha, <u>M.M. Nizamuddin</u> and Ishtiaque Alam	
09:40 – 10:00	<i>Compulsory or Voluntary: an Assessment of Wheat Insurance Policy __ A Case Study of Henan Province in China</i> Ruihua Yang, <u>Jing Sun</u> , Xiao Chen and Zude Xian	
<b>Plenary Talk</b>		
10:10 – 11:10	<b>Chair: W.K. Li</b> <i>Credit Portfolios, Credibility Theory, and Dynamic Empirical Bayes</i> <u>Tze Leung Lai</u>	<b>RHT</b>
11:10 – 11:30	<i>Coffee Break</i>	<b>RHT</b>
<b>Plenary Talk</b>		
11:30 – 12:30	<b>Chair: Elias S.W. Shiu</b> <i>Life Insurance in China</i> <u>Shirley Shao</u>	<b>RHT</b>
12:30 – 13:00	Closing Ceremony	
13:00 – 14:15	<i>Lunch</i>	<b>Canteen (FOOD<sup>2</sup>)</b>

Saturday 30 June : 18:30 – 21:30
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18:30 – 21:30    Symphony of Lights Cruise with Dinner *for those with tickets for June 30.*  
Participants should arrive at Pier 9, Central at least 15 minutes early.