

Schedule, 1st day
Saturday, February 01, 2020

Time		Lecturers and Titles of Talks
8:00	9:25	Registration Farmanieh Building, Institute for Research in Fundamental Sciences (IPM)
9:25	9:40	Welcome [The Main Lecture Hall] Hirbod Assa <i>Head of FINACT-IRAN Group</i>
9:40	10:00	Opening [The Main Lecture Hall] Ahmad-Reza Zarrabieh <i>Chief Executive Officer of Saman Insurance</i>
10:00	10:30	Coffee Break
10:30	11:00	Dan Kucеровsky (page 11) [The Main Lecture Hall] <i>University of New Brunswick, New Brunswick, Canada</i> Ruin probability
11:00	11:30	Shima Ara (page 12) [The Main Lecture Hall] <i>Saman Insurance Co., Tehran, Iran</i> On the importance of data mining methods in actuarial science
11:30	12:00	Amin Hassan Zadeh (page 13) [The Main Lecture Hall] <i>Shahid Beheshti University, Tehran, Iran</i> Mortality modeling of skin cancer patients with actuarial applications
12:00	12:30	Farbod Khanizadeh (page 14) [The Main Lecture Hall] <i>Insurance Research Center (IRC), Tehran, Iran</i> Use of decision tree in classifying customers of third-party liability motor insurance
12:30	13:45	Group Photo & Lunch
13:45	14:15	Jose Garrido (page 18) [The Main Lecture Hall] Concordia University, Montreal, Canada Deep neural networks with LSTM for human mortality modeling
14:15	14:45	Maryam Salmasi (page 19) [The Main Lecture Hall] <i>Taavon Insurance Co., Tehran, Iran</i> Risk identification with ERM approach in an insurance company: Taavon insurance company case study
14:45	15:15	Rahim Mahmoudvand (page 25) [The Main Lecture Hall] <i>Bu-Ali Sina University, Hamedan, Iran</i> Insurance pricing: From theory to reality
15:15	15:45	Coffee Break
15:45	17:05	Mostafa Pouralizadeh [The Main Lecture Hall] <i>Allameh Tabataba'i University, Tehran, Iran</i> Workshop on: Advances in Financial Machine Learning (Part 1)
17:05	17:20	Break
17:20	18:45	Mostafa Pouralizadeh [The Main Lecture Hall] <i>Allameh Tabataba'i University, Tehran, Iran</i> Workshop on: Advances in Financial Machine Learning (Part 2)

Schedule, 2nd day
Sunday, February 02, 2020

Time		Lecturers and Titles of Talks
8:30	9:00	Ali Foroush Bastani (page 28) [The Main Lecture Hall] <i>Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran</i> Solving parametric fractional differential equations arising from rough Heston model using quasi-linearization and spectral collocation
9:00	09:30	Ali Safdari-Vaighani (page 29) [The Main Lecture Hall] <i>Allameh Tabataba'i University, Tehran, Iran</i> An efficient pricing method for basket options under jump-diffusion model
09:30	10:00	Fazlollah Soleymani (page 32) [The Main Lecture Hall] <i>Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran</i> A jump-diffusion model when both underlying and volatility contain correlated Jumps
10:00	10:30	Coffee Break
10:30	11:00	Davood Ahmadian (page 36) [The Main Lecture Hall] <i>University of Tabriz, Tabriz, Iran</i> Pricing arithmetic Asian option using the control variate technique
11:00	11:30	Saghar Heidari (page 37) [The Main Lecture Hall] <i>Shahid Beheshti University, Tehran, Iran</i> Valuing equity-linked death benefits under phase-type models
11:30	12:00	Mostafa Pouralizadeh (page 42) [The Main Lecture Hall] <i>Allameh Tabataba'i University, Tehran, Iran</i> A machine learning approach to parametrize implied volatility in a risk management
12:00	12:20	Soroush Amirhashchi (page 46) [The Main Lecture Hall] <i>Mellat Insurance Co., Tehran, Iran</i> Lapse risk modeling with machine learning techniques: a case study on Mellat ...
		Mahdiye Alijani (page 49) [Class C] <u>In Persian</u> <i>Allameh Tabataba'i University, Tehran, Iran</i> Option pricing under a class of time-changed Levy process
		Samira Amirian (page 53) [Class A] <u>In Persian</u> <i>Amirkabir University of Technology, Tehran, Iran</i> Fractional Stochastic Volatility Models and Applications in Pricing
12:20	12:40	Alireza Fallahi (page 57) [The Main Lecture Hall] <i>Amirkabir University of Technology, Tehran, Iran</i> S&P 500 stock selection via factor analysis and principal component analysis
		Fatemeh Atatalab (page 61) [Class C] <u>In Persian</u> <i>Shahid Beheshti University, Tehran, Iran</i> Non-life insurance reserve for solvency purposes
		Parisa Davar (page 65) [Class A] <u>In Persian</u> <i>Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran</i> A Forecasting Model for Limit Order Book in Tehran Stock Exchange Using LSTM...

Schedule, 2 nd day, Sunday, February 02, 2020		
Time	Lecturers and Titles of Talks	
12:40	13:00	Pegah Amiri (page 69) [The Main Lecture Hall] <i>Allameh Tabataba'i University, Tehran, Iran</i> Pricing Catastrophe bonds under a jump-diffusion interest rate model by Finite ...
		Fatemeh Ahangar Saryazdi (page 73) [Class C] <u>In Persian</u> <i>ECO College of Insurance, Allameh Tabataba'i University, Tehran, Iran</i> Insured's risk prediction in life insurance: Saman insurance case study
		Oreinab Afrooz Kelardehi (page 77) [Class A] <u>In Persian</u> <i>Razi Insurance Co., Tehran, Iran</i> Fraud detection methods in health insurance Case study: An Iranian insurance Co.
13:00	14:10	Lunch
14:10	14:30	Mohammad Karimnejad Esfahani (page 82) [The Main Lecture Hall] <i>Allameh Tabataba'i University, Tehran, Iran</i> Pricing Insurance Bonds Using RBF Method
		Farzaneh Anvari (page 85) [Class C] <u>In Persian</u> <i>Dana Insurance Co., Tehran, Iran</i> The relationship between behavioral orientation and investor behavior ...
		Mohammad Azarbad (page 88) [Class A] <u>In Persian</u> <i>Shahid Chamran University of Ahvaz, Ahvaz, Iran</i> Analysis of lapse risk with censored data: Mellat Insurance case study
14:30	14:50	Zahra Barzegar (page 92) [The Main Lecture Hall] <u>In Persian</u> <i>Saman Insurance Co., Tehran, Iran</i> A simulation-based internal solvency model for determining premium risk ...
		Saman Ebrahimpour (page 93) [Class C] <u>In Persian</u> <i>Shahid Beheshti University, Tehran, Iran</i> An early warning system for systemic risk using breakpoint regression
		Diba Daraei (page 98) [Class A] <u>In Persian</u> <i>Shahid Beheshti University, Tehran, Iran</i> Life table construction of active insured members of social Insurance ...
14:50	15:10	Monir Goudarzi (page 102) [The Main Lecture Hall] <u>In Persian</u> <i>Mellat Insurance Co., Tehran, Iran</i> Modeling and predicting health insurance claims in Mellat insurance company...
		Tayebeh Zanganeh (page 106) [Class C] <u>In Persian</u> <i>Islamic Azad University, Science and Research Branch, Tehran, Iran</i> Dynamic Measurement of Iran Interbank Network Stability
		Sara sadat Moosavi (page 109) [Class A] <u>In Persian</u> <i>Shahid Beheshti University, Tehran, Iran</i> Valuation of the new health product with a popular rider and limited benefits
15:10	15:30	Coffee Break
15:30	16:50	Jose Garrido (page) [The Main Lecture Hall] <i>Concordia University, Montreal, Canada</i> Workshop on: Applications of Machine Learning to Insurance (Part 1)
16:50	17:05	Break
17:05	18:30	Jose Garrido (page) [The Main Lecture Hall] <i>Concordia University, Montreal, Canada</i> Workshop on: Applications of Machine Learning to Insurance (Part 2)

Schedule, 3 rd day		
Monday, February 03, 2020		
Time		Lecturers and Titles of Talks
8:30	8:55	Erfan Salavati (page 113) [The Main Lecture Hall] <i>Amirkabir University of Technology, Tehran, Iran</i> Mean Field Games in Finance
8:55	9:20	Mahmoud Botshekan – Ehsan Adman (page 114) [The Main Lecture Hall] <i>Isfahan University, Isfahan, Iran</i> Factor investing meets predictability
9:20	9:45	Ahmad Salahnejhad Ghalehjooghi (page 119) [The Main Lecture Hall] <i>Risk Managment Dept., Nationale-Nederlanden, The Netherlands</i> Socio-economic differentiation in experienced mortality modeling and its pricing implications
9:45	10:05	Coffee Break
10:05	10:30	Hirbod Assa (page 120) [The Main Lecture Hall] <i>University of Liverpool, UK</i> Examination of reinforcement learning method for hedging
10:30	11:15	A Panel Discussion on “RiskLabs: Structure, Requirements, and Rules” <i>(moderator: Dr. Amir T. Payandeh)</i>
11:15	11:40	Mohsen Yavari (page 121) [The Main Lecture Hall] <i>FaraBourse Iran Co., Tehran, Iran</i> Applying Islamic Repo in monetary policy
		Ali Golbabaee (page 122) [Class C] <u>In Persian</u> <i>University of Isfahan, Isfahan, Iran</i> Mapping Capital Requirements to Bank Lending Spreads: The Role of ...
		Nader Karimi (page 126) [Class A] <u>In Persian</u> <i>Amirkabir University of Technology, Tehran, Iran</i> An investigation of demand for agricultural commodities in the presence of ...
11:40	12:00	Abdollah Najar Firozjaei (page 133) [The Main Lecture Hall] <i>Dana Insurance Co., Tehran, Iran</i> An introduction to theoretical and historical aspects of evolutionary economics ...
		Mitra Ghanbarzadeh (page 137) [Class C] <u>In Persian</u> <i>Insurance Research Center, Tehran, Iran</i> A survey on data mining methods for customer Churn prediction in insurance ...
		Sadegh Miri (page 141) [Class A] <u>In Persian</u> <i>Amirkabir University of Technology, Tehran, Iran</i> Optimization portfolio under uncertain condition
12:00	12:20	Nastaran Hadi Doolabi (page 145) [The Main Lecture Hall] <i>Tarbiat Modares University, Tehran, Iran</i> The main micro-structural components of the stock liquidity and intraday patterns
		Somayeh Mireh (page 150) [Class C] <u>In Persian</u> <i>Insurance Research center, Tehran, Iran</i> Application of factor analysis in assessing the service quality of departments of ...
		Somayeh Mohammadi (page 154) [Class A] <u>In Persian</u> <i>University of Isfahan, Isfahan, Iran</i> Asset correlation and distance to default relationship, a case study of Iran

Schedule, 3rd day
Monday, February 03, 2020

Time		Lecturers and Titles of Talks
12:20	12:40	Fereshteh Shahbazin (page 159) [The Main Lecture Hall] <i>Islamic Azad University, Qazvin, Iran</i> Modeling and Evaluation Iran Mutual Funds Systemic Risk: A Conditional Value ...
		Sahar Salimi (page 163) [Class A] <u>In Persian</u> <i>Institute for Advanced Studies in Basic Sciences, Zanjan, Iran</i> Bilateral Counterparty Risk Valuation to Credit Default Swaps
		Sahar Yaghoubi (page 167) [Class C] <u>In Persian</u> <i>Azərbaycan Şahid Madani University, Tabriz, Iran</i> Pricing of index-based catastrophe bonds based on Fourier cosine expansions
		Khaled Masoumifard (page 173) [The Main Lecture Hall] <u>In Persian</u> <i>Shahid Beheshti University, Tehran, Iran</i> Stochastic optimization in correlated multiple insurance business lines
12:40	13:00	Amir Hossein Yaftian (page 179) [Class C] <u>In Persian</u> <i>Tarbiat Modares University, Tehran, Iran</i> Designing an automated trading system using image processing by a ...
		MohammadTaha Hoveizavi (page 184) [Class A] <u>In Persian</u> <i>Kharazmi University, Tehran, Iran</i> Model selection for value at risk with machine learning methods
		Closing
13:10	14:30	Group Photo & Lunch
14:30	17:30	Visit "Plannet", please see plannet.ir (with workshop about Insurtech)

Schedule, 4th day
Tuesday, February 04, 2020

Time		<u><i>Titles of Workshops</i></u>
9:30	11:10	Ahmad Salahnejhad Ghalehjooghi [Niavaran Building, Lecture Hall 1] <i>Risk Managment Dept., Nationale-Nederlanden, The Netherlands</i> Workshop on: Experienced Mortality with Portfolio-specific Data (Part 1)
11:10	11:40	Coffee Break
11:40	13:20	Ahmad Salahnejhad Ghalehjooghi [Niavaran Building, Lecture Hall 1] <i>Risk Managment Dept., Nationale-Nederlanden, The Netherlands</i> Workshop on: Experienced Mortality with Portfolio-specific Data (Part 2)
13:20	14:30	Break for Lunch
14:30	16:00	Elshan Soltani [Niavaran Building, Lecture Hall 1] In Persian <i>Algorithmic Trading Advisor at Tosee-Melli Investment Co., Tehran, Iran</i> Workshop on: How to get into the world of algorithmic trading? (Part 1)
		Zahra Barzegar [Niavaran Building, Lecture Hall 2] In Persian <i>Saman Insurance Co., Tehran, Iran</i> Workshop on: Spatial Statistics in Actuarial Science (Part 1)
16:00	16:15	Break
16:15	17:45	Elshan Soltani [Niavaran Building, Lecture Hall 1] In Persian <i>Algorithmic Trading Advisor at Tosee-Melli Investment Co., Tehran, Iran</i> Workshop on: How to get into the world of algorithmic trading? (Part 2)
		Zahra Barzegar [Niavaran Building, Lecture Hall 2] In Persian <i>Saman Insurance Co., Tehran, Iran</i> Workshop on: Spatial Statistics in Actuarial Science (Part 2)