

**Schedule, 1<sup>st</sup> day**  
**Saturday, December 22, 2018**

Time		Lecturers and Titles of Talks
8:00	9:00	<b>Registration</b> <b>Hakim-Aazam Building, Khatam University</b>
9:00	9:30	<b>Opening</b> <b>Majid Ghassemi</b> <i>President of Khatam University</i>
9:30	09:50	<b>Welcome</b> <b>Hirbod Assa</b> <i>Head of FINACT-IRAN Group</i>
09:50	10:15	<b>Amir Hamooni</b> <i>CEO of Iran Fara Bourse</i> <b>Big Data, Confidentiality, and Capital Market</b>
10:15	10:40	<b>Coffee Break</b>
10:40	11:05	<b>Hasan Ghalibaf Asl</b> <i>Alzahra University</i> <b>Risk and Holdings</b>
11:05	11:15	<b>About RiskLab Khatam</b> <b>Hamidreza Arian, Head of RiskLab Khatam</b>
11:15	11:40	<b>Abdolsadeh Neisy</b> (page 11) <i>Allameh Tabataba'i University</i> <b>New Approach to Provide Securities in Islamic Financial Economics</b>
11:40	11:50	<b>Tehran Stock Exchange Presentation Session (sponsor)</b>
11:50	12:25	<b>A Panel Discussion on "New Technology in Finance"</b> <i>(moderator: Dr. Tehrani)</i>
12:25	13:40	<b>Lunch</b>
13:40	14:05	<b>Mohammad Ali Rastegar Sorkheh</b> (page 14) <i>Tarbiat Modares University</i> <b>Risk Management and Asset Quality Review: Solution for Iranian Banking Industry</b>
14:05	14:35	<b>Hassan Omidi Firouzi</b> (page 16) <i>Royal Bank of Canada (RBC), Toronto</i> <b>Market Risk and Risk Models after Basel III Accord</b>
14:35	15:00	<b>Farshid Zoghalchi</b> (page 17) <i>Royal Bank of Canada (RBC), Toronto</i> <b>A Game Approach to Asset Price Formation</b>
15:00	15:25	<b>Coffee Break</b>
15:25	15:50	<b>Mahmoud Botshekan</b> (page 18) <i>University of Isfahan</i> <b>Decomposition of Equity Risk Premium: Ex Ante Approach</b>
15:50	16:15	<b>Robab Kalantari and Sajjad Khazaei</b> (page 21) <i>Risklab Khatam and AAICO Company, respectively</i> <b>Introduce and Quantitative Operational Risk for Bank in R Software</b>
16:15	16:40	<b>Davood Ahmadian</b> (page 22) <i>University of Tabriz</i> <b>Skew Laplace-Normal Copula Function with Application in Insurance</b>
16:40	16:55	<b>Break</b>

**Schedule, 1<sup>st</sup> day**  
**Saturday, December 22, 2018**

Time		Lecturers and Titles of Talks
<b>16:55</b>	<b>17:15</b>	<b>Farzaneh Ghasemipanah</b> (page 26), [Lecture Hall 1] <i>Khatam University</i> <b>Risk Premium Estimation in Startups</b>
		<b>Alireza Fallahi</b> (page 28), [Lecture Hall 2] <i>Amirkabir University of Technology</i> <b>A Sufficient Forecasting Method Using Factor Models and its Application to Iranian Macroeconomic Indices</b>
<b>17:15</b>	<b>17:35</b>	<b>Amirsalar VahidiAsgari</b> (page 32), [Lecture Hall 1] <i>Amirkabir University of Technology</i> <b>Credit Risk of Bank Loan Case Study in Iran</b>
		<b>Saeed Mohammadpour</b> (page 36), [Lecture Hall 2] <i>Allameh Tabataba'i University</i> <b>Multivariate Generalized Hyperbolic Regression: Estimation and Application</b>
<b>17:35</b>	<b>17:55</b>	<b>Maliheh Bayat</b> (page 42), [Lecture Hall 1] <i>Khatam University</i> <b>The Stochastic Conditional Duration Model: An Empirical Study in TSE</b>
		<b>Alireza Alirezazade</b> (page 45), [Lecture Hall 2] <i>Tarbiat Modares University</i> <b>Order Placement Optimization in Tehran Securities Exchange</b>
<b>17:55</b>	<b>18:15</b>	<b>Hamed Aghayi</b> (page 50), [Lecture Hall 1] <i>Tarbiat Modares University</i> <b>Multi-portfolio Optimization In Tehran Stock Exchange</b>
		<b>Tayebeh Zanganeh</b> (page 53), [Lecture Hall 2] <i>Islamic Azad University, Science and Research Branch</i> <b>A Network Topology of the Iranian Interbank Money Market: Degree Distribution Analysis</b>

Schedule, 2 <sup>nd</sup> day Sunday, December 23, 2018		
Time	Lecturers and Titles of Talks	
9:00	9:30	Navideh Modarresi (page 56) <i>Allameh Tabataba'i University</i> <b>Intensity based Model for CDS Spread with Time-Changed Levy Process</b>
9:30	10:00	Rahim Mahmoudvand (page 60) <i>Bu-Ali Sina University</i> <b>Change Point Detection in Time Series: A subspace based approach</b>
10:00	10:30	Neda Esmaeeli (page 63) <i>University of Isfahan</i> <b>Pricing of Callable Put Options with and without Extra Information: A Special Case</b>
10:30	10:55	<b>Coffee Break</b>
10:55	11:25	Hamed Ghoddusi (page 66) <i>Stevens Institute of Technology, USA</i> <b>When is Volatility Bad for Option Prices?</b>
11:25	12:10	<b><i>A Panel Discussion on "Fintech, Artificial Intelligent, and Financial Science"</i></b> <i>(moderator: Dr. Saadvandi)</i>
12:10	12:40	Ali Foroush Bastani (page 67) <i>Institute for Advanced Studies in Basic Sciences (IASBS)</i> <b>An Efficient Meshfree Method for Computing Survival Probability based on Multifactor Reduced-form Models</b>
12:40	13:55	<b>Lunch</b>
13:55	14:20	Shahab Nankali (page 71) <i>Institute for Advanced Studies in Basic Sciences (IASBS)</i> <b>Modeling Risk adjusted CLV for Banks Borrowers</b>
14:20	14:50	Hasan Dadashi Arani (page 73) <i>Institute for Advanced Studies in Basic Sciences (IASBS)</i> <b>Optimal Investment-consumption Problem Post-retirement with a Minimum Guarantee</b>
14:50	15:15	Zaniar Ahmadi (page 77) <i>Securities and Exchange Organization (SEO)</i> <b>Copula and GARCH Approaches to Systemic Risk</b>
15:15	15:40	<b>Coffee Break</b>
15:40	16:05	Mohammad Shirzadi (page 79), [Lecture Hall 1] <i>Amirkabir University of Technology</i> <b>Valuation of Multi-asset Option under Jump-Diffusion Process using Meshfree Moving Least Squares Method</b>
		Saman Vahabi (page 84), [Lecture Hall 2] <i>Shahid Beheshti University</i> <b>Calculating Survival Probability by Stochastic Mortality</b>

**Schedule, 2<sup>nd</sup> day**  
**Sunday, December 23, 2018**

Time		Lecturers and Titles of Talks
16:05	16:30	<p><b>Maryam Vahid Dastgerdi</b> (page 87), [Lecture Hall 1] <i>Institute for Advanced Studies in Basic Sciences (IASBS)</i> <b>From Calibration of Rough Heston model to a New Method to Solve Fractional Riccati Equation II: Quasi-linearization Fractional Spectral Collocation with Error Analysis</b></p>
		<p><b>Maryam Rezaei</b> (page 91), [Lecture Hall 2] <i>Semnan University</i> <b>Numerical Solution of the Time-fractional Black-Scholes Equation for European Double Barrier Option with Time-dependent Parameters under the CEV Model in Financial Market</b></p>
16:30	16:40	<b>Break</b>
16:40	17:00	<p><b>Azadeh Ghasemifard</b> (page 96), [Lecture Hall 1] <i>Isfahan University of Technology</i> <b>Multilevel Monte-Carlo Simulation Applied to Levy Driven Assets</b></p>
		<p><b>Seyedehleila Hosseini</b> (page 100), [Lecture Hall 2] <i>Allameh Tabataba'i University</i> <b>Optimal Investment and Risk Control Policies for an Insurer under Dependent Levy Process</b></p>
17:00	17:20	<p><b>Sanaz Dastgheibi</b> (page 103), [Lecture Hall 1] <i>Khajeh Nasir Toosi University of Technology</i> <b>Presale of Real Estate in Real Options Framework</b> <b>Case study: Tehrans Residential Real Estate</b></p>
		<p><b>Amineh Shekaramiz</b> (page 108), [Lecture Hall 2] <i>Amirkabir University of Technology</i> <b>Subhedging of Compound Options, using Optimal Mass Transport</b></p>
17:20	17:40	<p><b>Hossein Javdanfard</b> (page 110), [Lecture Hall 1] <i>Amirkabir University of Technology</i> <b>Equilibrium of Competing Large Traders in an Order Book Market</b></p>
		<p><b>Somayeh Mohebbi</b> (page 113), [Lecture Hall 2] <i>Institute for Advanced Studies in Basic Sciences (IASBS)</i> <b>Systemic Risk Measurement in a Banking Network Using Conditional VaR and Vine Copula</b></p>
17:40	18:00	<p><b>Peyman Alipour</b> (page 117), [Lecture Hall 1] <i>Tehran University</i> <b>Flexible CPPI in Regime Switching Models</b></p>
		<p><b>Neda Maghsoudi</b> (page 122), [Lecture Hall 2] <i>Institute for Advanced Studies in Basic Sciences (IASBS)</i> <b>Optimal Control of CVaR Risk Measure in Continuous-Time using Radial Basis Function Collocation Method</b></p>

**Schedule, 3<sup>rd</sup> day**  
**Monday, December 24, 2018**

Time		Lecturers and Titles of Talks
9:00	9:30	Amir Safari (page 126) <i>Head of Insurance Research Center</i> <b>Applications of Actuarial Sciences in Insurance</b>
9:30	10:00	Amir Teymor Payandeh Najafabadi (page 127) <i>Shahid Beheshti University</i> <b>Ratemaking Systems versus Bonus-Malus Systems</b>
10:00	10:30	Hirbod Assa (page 128) <i>University of Liverpool</i> <b>Price Index Insurances in the Agriculture Markets</b>
10:30	10:55	<b>Coffee Break</b>
10:55	11:30	<b>A Panel Discussion on "Education of Financial Mathematics"</b> <i>(moderator: Prof Zohuri-Zangeneh)</i>
11:30	11:50	Zahra Barzegar (page 129), [Lecture Hall 1] <i>Saman Insurance Company</i> <b>An Analysis on Experiences of Life Insurance Policies Lapsation using Machine Learning Algorithms</b>
		Mohsen Baghi (page 135), [Lecture Hall 2] <i>Yazd University</i> <b>The Fair Valuation of Life Insurance Contracts in a Partially Observed Market</b>
11:50	12:10	Diba Daraee (page 140), [Lecture Hall 1] <i>Shahid Beheshti University</i> <b>More Investigations on Fair Valuation of Insurance Liabilities by Mean-Variance Hedge Based Approach</b>
		Monir Goudarzi (page 143), [Lecture Hall 2] <i>Shahid Beheshti University</i> <b>Prediction of One-Year Reserve Risk of Dependent Lines of Business in the Robust Bayesian Models for Multivariate Claim Reserving Based on Scale Mixtures of Multivariate Normal Distributions</b>
12:10	12:30	Bayan Waissi (page 147), [Lecture Hall 1] <i>Iran University of Science and Technology</i> <b>Apply the Esscher Transform as Equivalent Martingale Measure to Valuation Insurance Liabilities</b>
		Mahsan Hajimazdarani (page 152), [Lecture Hall 2] <i>Amirkabir University of Technology</i> <b>Contagion in Financial Networks</b>
12:30	12:50	Sara sadat Moosavi (page 156), [Lecture Hall 1] <i>Shahid Beheshti University</i> <b>Application of Piecewise-deterministic Markov Process in Health Insurance</b>
		Ali Sadeghkhan (page 160), [Lecture Hall 2] <i>Iranian Reinsurance Company</i> <b>Natural Catastrophe Risk Modeling in Non-Life (Re)insurance Companies Approach: Optimization of Cat. XoL Reinsurance Contract Layering</b>
12:50	13:15	<b>Closing</b>
13:15	14:30	<b>Group Photo &amp; Lunch</b>