



## Call for Papers

### Banking and Finance Transformations in the Era of Digitalization and Sustainability:

#### Risk management and modeling in financial economics:

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*Covid-19 pandemic crisis has become a major worldwide economic crisis. Researchers and practitioners are now questioning the new world overwhelming their fields of research and industry practices. With historically low rates levels in the western economies, an exponential unemployment, a negative price for oil barrel and a growing number of companies defaults in key industries, finance -as a disciplinary field- is pushed at its further burdens. The double effect of this unexpected crisis and the growing competition of FinTechs and BigTechs accelerates the transformation of the whole banking and insurance industry . Central Banks are also at a crossroad: is there a space to classical monetary policy when even money creation is challenged by crypto currencies?*

*What is the role of Derivatives and Risk management?*

*How do we model the behavior of actors in the markets?*

*The 3<sup>rd</sup> ISFBI-International Symposium for Finance, Banking and Insurance is also an opportunity to open doors to new challenging fields insufficiently covered by top financial journals and mathematical journals like technological innovations and smart applications in financial Economics, various alternative business models in finance, Digitalization, and the increasing co-influence between finance, accounting and risk management, the modeling of the activity and behavior of actors. The last ambition behind ISFBI is to fill the gap between Mathematical finance -as a core discipline- and other related expertise especially banking and insurance and the behavior of economic actors. These two last fields developed their ecosystem of competencies and know-how and are not sufficiently integrated with the core mathematical finance journals and conferences.*

*The symposium is committed to be a core mathematical finance interdisciplinary event, open to academia and practitioners to deal with the unprecedented challenges of our times.*

### Conference Scope

ISFBI is expecting to host high level contributions from academia and from industry as well on these core subjects:

- Modeling Financial Markets
- Modeling Corporate finance
- Technological innovations, IT and Smart applications
- Models in Risk management, especially dedicated techniques for banking and insurance and industry
- Governance of financial institutions in time of crisis
- Impact of accounting evolving norms and rules on financial management
- New modeling and forecasting tools for finance, banking and insurance
- FinTech and BigTech existing and prospective impacts on financial markets, banking and insurance industry
- Crypto currencies and central banking digital currencies impacts on markets and on monetary policy

Conference Chairs propose a separate PhD Workshop. The first page must mention the Special Workshop. The objective is to help students to write scientific papers from their PhD chapters.

### Publications Opportunities

**Articles will be in special issues:**

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1. Annals of Operations Research, <https://www.editorialmanager.com/anor/>

2. Bankers, Markets & Investors"; Author instruction: Special volume "Risk Management in Banking and Finance"

<https://www.journalska.com/index.php/bmi/about/submissions> ,

3. La Revue des Sciences de Gestion, see guidelines [www.LaRSG.fr](http://www.LaRSG.fr)

4. Gestion 2000

### Keynote & Honorary Guest Speakers

**Pr. Giovanni Barone-Adesi, University of Lugano & Swiss Finance Institute, Switzerland**

#### Honorary Guest Speakers

**Pr. Oldrich Alfons Vasicek, University of Rochester, the UC Berkeley, USA**

**Pr. M. Rocha Armada, Former Chairman of EFMA, University of Minho, Portugal**

**Pr. Aman Agarwal, Indian Institute of Finance & Finance India, INDIA**

#### Honorary Committee

**Pr. Gordon Alexander** (University of Minnesota, USA)

**Pr. Bora Aktan** (University of Bahrain, Bahrain)

**Pr. Ephraim Clark** (Middlesex University, UK)

**Pr. K.C. Chen** (California State University, USA)

**Pr. Georges Constantinides** (University of Chicago, USA)

**Pr. Dilip Gosh** (Rutgers University, USA)

**Dr. Achraf Ayadi, Banking Expert**

(private sector), FRANCE Pr.  
Ephraim Clark, Middlesex University,  
UK

#### Conference Co-Chairs

Pr. Mondher Bellalah & Pr. Jean-Luc Prigent (CY Cergy Paris University),  
Makram Bellalah (Amiens)

#### Local Conference Committee

E. Thorez (ISC Paris) ; O. Levyne, I. Abid; Giang Phung & D.Heller (ISC Paris),

#### Scientific Committee

Giovanni. Barone-Adesi Univ. Lugano)	Sofiene. Tahi (Univ. Amiens)	Safouene. Ben Aïssa (Univ. Manar; Tunis)
Eric. Briys (Cyberlibris)	Jean. Luc. Prigent CY Cergy Paris University)	G. Constantinides (Univ. Chicago)
Y. Simon (Univ Paris-Dauphine)	B. Jacquillat (Univ Paris-Dauphine)	; Duc K. Nguyen (EMLV Business School)

#### Submission Guidelines, Reviewing Process & Best Three Papers Awards

Authors are invited to submit in word or pdf files on the conference website ([www.isfbi.org](http://www.isfbi.org)) and by e-mail to **Conference Chair:** [mondher.bellalah@gmail.com](mailto:mondher.bellalah@gmail.com).

All submitted articles will be reviewed. The best three papers will be awarded at the conference. The conference chair and the scientific committee will decide the best three papers presented during the conference. The maximum number of papers accepted by each author as leading author is only one.

#### Important Dates:

Deadline for paper submission:

**April 20<sup>th</sup>, 2024**

Acceptance / Rejection:

**May 20, 2024**

Definitive camera-ready version & Registration of Authors:

**May 26, 2024**

<http://www.isfbi.org/>

### Previous Conference Keynote Speakers include the following Professors

**Harry M. MARKOWITZ (USA)** is the Principal of Harry Markowitz Company and Adjunct Professor at Rady School of Management, University of California at San Diego, **Nobel Laureate in Economic Sciences (1990)**, Dr. Markowitz has applied computer and mathematical techniques to various practical decision making areas. In 1990 he shared The Nobel Prize in Economics for his work on portfolio theory with Merton H. Miller and William F. Sharpe.



**James J. HECKMAN (USA)** is the Henry Schultz Distinguished Service Professor Economics at University of Chicago; Director of the Center Economics of Human Development; Co-Director, Capital and Economic Opportunity Global Working **Nobel Laureate in Economic Sciences (2000)**. He shared The Nobel Prize in Economics for his work on development of theory & methods for analyzing selective samples with Daniel L. McFadden



**Edward C. PRESCOTT (USA)** is Regent's Professor in Economics at W. P. Carey School of Business at Arizona State University. **Nobel Laureate in Economic Sciences (2004)**. He shared The Nobel Prize in Economics for their work on dynamic macroeconomics: the time consistency of economic policy and the driving forces behind business cycles work on development of theory & methods for analyzing selective samples with Finn E. Kydland



**Giovanni BARINE-ADESI (Switzerland)** is Professor of Finance theory and director at Swiss Finance Institute, University of Lugano. His research interests lie in derivative pricing & studies of volatility. In recent research, Barone-Adesi tackles the topic system-wide volatility from a behavioral finance perspective. His more recent works concern the pricing of index options, barrier options, gold derivatives.



**Aman AGARWAL (India)** is Professor of Finance & Director (Rektor) at INDIAN INSTITUTE OF FINANCE (IIF). He is editing the quarterly refereed journal of finance - FINANCE INDIA as Executive Editor. He has been felicitated by being Enthroned to a Chair position of the St. Emillion Brotherhood (from 8<sup>th</sup> Century AD) by the Heritage City of Bordeaux, France (on 28th June 2007). A special Honour and Privilege given to World figures in Business, Arts and Science. He has also been felicitated by a nomination for the Honorary Doctorate of Finance by University of Cergy-Pontoise Thema, France (in 2007) and the Honorary Professorship as Professor of Uzbekistan by Tashkent State University of Economics, Uzbekistan (in 2002), a 88 years old prestigious university in Uzbekistan (estd. 1931), in recognition of his contribution to academics and literature. He has studied at some of the most illustrious Institutions like *Delhi Public School, Delhi University, Indian Institute of Finance, London School of Economics and Columbia University*. He has had a short stint at The World Bank in Washington DC, USA.



**Oldrich Alfons VASICEK (USA)** is Principal of Vasicek Associates and is a founding partner of KMV Corporation served as Special Adviser to Moody's KMV. He has been the Management Science of Wells Fargo Bank and has at University of Rochester, Berkeley, and at Ecole Supérieure des Sciences Economiques et Commerciales (ESSEC) in France. Dr. Vasicek works in mathematical finance, particularly on development of quantitative models of firms, financial instruments and financial markets. Has published over 30 articles in financial and mathematical journals and has received a number of honors, including the Graham and Dodd Award, the Roger F. Murray Prize, the Award of the Institute for Quantitative Research in Finance, the IAFE Financial Engineer of the Year Award, and the Risk Magazine Lifetime Achievement Award. He has been inducted into the Derivatives Strategy Hall of Fame, the Fixed Income Analysts Society Hall of Fame, and the Risk Magazine Hall of Fame. His theory of term structure of interest rates is recognized as genesis in finance.



**Nizar TOUZI (France)** is Professor at the École Polytechnique Department of Applied Mathematics (CMAP) in Palaiseau. A world expert in control problems of stochastic differential equations, he obtained major results in probabilistic representations of solutions of nonlinear partial derivative equations. His work on non-Markovian retrograde stochastic equations has enabled the construction of new viscosity solutions for



Hamilton-Jacobi-Bellman-type equations on action-spaces. He has been granted the Bachelier Award for his work on controlling volatility of derivative products in finance and for algorithms of derivative hedging with constraint in retrograde stochastic differential equations as well the development of adapted numerical methods.



**Farid AITSAHLIA (USA)**, is Assistant Professor at the University of Florida. His undergraduate degree in Mathematics is from the University of Algiers. My M.S. and Ph.D. degrees in Operations Research are from Stanford University. He has spent several years in industry before moving to academia. He has been at Hewlett-Packard Laboratories before

and right after he obtained doctoral degree. He then joined Silicon Valley start-ups, Financial Engines and Demand Tec, before joining the University of Florida. His research areas are Asset pricing models, computational methods in finance, risk management, financial engineering, market microstructure. He is the Editor-in-Chief of Journal of Risk.

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