Fuzzy Computational Intelligence in Finance—Theory and Applications

November 10 – 11, 2015

Sheikh Zayed Centre for Exhibitions & Conferences, Ajman University of Science & Technology, Ajman, U.A.E.

CONVENORS:

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Head- Department of Finance, MBA Coordinator and Associate Professor, College of Business Administration, AUST

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Associate Professor of Finance, Department of Finance, College of Business Administration, AUST

BRIEF BIOGRAPHY

Dr. Khoshnevisan has obtained his Ph.D in the field of financial engineering from the University of Melbourne, Australia. He has published on pedagogical and arduous issues in finance in reputable international journals such as Journal of Derivatives & Hedge Funds and Journal of Asset Management and presented papers in academic conferences in Australia, New Zealand and in the United States. His cynosure in research is in the stochastic and heteroscedastic applications of fuzzy systems in portfolio management and investment coupled with wry derivatives. His joint published article entitled “A General Family of Estimators for Estimating Population Mean Using Known Value of Some Population Parameter has been cited in 2009 and 2013 in the top leading journals such as Journal of Statistical Planning and Inference (Rank A Journal by Australian Mathematical Society and The Australian Government Research Council) respectively.

Dr. Chaker is an Associate Professor of Economics and Head of Finance Department at AUST. He taught in various institutions in the USA, UAE, Qatar, and Kazakhstan since 1994 for undergraduate and graduate programs. He has published his papers in refereed international journals and has presented most of his papers at international and regional conferences. Dr. Chaker has supervised many MBA final projects and was a member of the EMBA examination committee. His research interests are Islamic banking & finance, health economics, customers’ satisfaction, the impact of globalization on consumers, producers, and international trade. His administrative experience includes: Assistant Dean for Students Affairs for four years, Associate Dean for one year, and Acting Dean of College of Business for more than two years.

Dr. Chaker has served on different committees at the university, college, and departmental levels, and he has been involved in the accreditation process for the undergraduate and MBA programs. Dr. Chaker is a member of the editorial board of Journal for International Business and Entrepreneurship Development (JIBED), UAE Country Director, and The Euro- Med Research Business Institute.

Dr. Khoshnevisan was formally invited as a visiting scholar at the University of California-Berkeley and Harvard University during 2004-2005. He served on the advisory board of Better Trends, chaired by His Highness Sheikh Saeed Al-Maktoum and managed by the late Dr Abdullah Al Madani for the past few years. Prior to joining AUST, he taught finance in Australia and Saudi Arabia for several years. He has co-supervised two Ph.D students and he has also acted as an examiner for Ph.D dissertations in Australia.
Synopsis
Fuzzy Computational Intelligence has been employed in recent years in the areas of medicine, engineering, economics and financial engineering because it resembles human reasoning in its use of approximate information and uncertainty to generate decisions. Fuzzy logic itself is not fuzzy. Fuzzy logic simply deals with vagueness and fuzziness. For example in financial applications, fuzzy logic controller will attempt to detect pricing anomalies in real time from the observed price movement patterns and then perform simulations to discover whether any of the unearthed anomalies could be a potential “bubble” in the making that could have a large-scale impact on asset prices once the bubble bursts. Therefore, though one will not know how the markets will behave in the future, fuzzy logic system will nevertheless create a hub of a blanket-defense system against financial cataclysms.

In essence, a fuzzy logic system provides vivacious techniques to encounter the challenges in the field of financial engineering. It is wise to say that fuzzy logic has gone beyond the capabilities of probabilistic systems and traditional financial models. All in all, fuzzy logic has made it possible for applied finance scholars, among other scientists, to sneak a peek at the mind-boggling dance of chaos. In that, the Chaos Cabal has proved it beyond any reasonable doubt that how we would rather view the world and how it really is are entirely different! Things which appear fuzzy could be non-fuzzy while things which appear orderly could have seeds of apparent fuzziness ingrained within!

Target Audience
Corporations and Commercial Banks
Government and Private Sectors

Fees:
DHS 2,000 per participant
(DHS 1,000 for Ajman University Students)

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