Information Systems for Global Financial Markets: Emerging Developments and Effects

Alexander Y. Yap (Elon University, USA)

Financial markets around the world can affect each other in a matter of seconds as financial information systems are programmed to buy or sell stocks and financial derivatives automatically when activated by sudden changes in global market trends and conditions.

Information Systems for Global Financial Markets: Emerging Developments and Effects offers focused research on the systems and technologies that provide intelligence and expertise to traders and investors and facilitate the agile ordering processes, networking, and regulation of global financial electronic markets. How these systems work to manipulate, move, and provide intelligence to the stock market is still a mystery to many students, and it is the intent of this book to provide real-world cases and examples that can unveil these systems to business students interested in financial trading, the dynamics of financial electronic markets, and the tactical technologies that facilitate the trading process and trading decisions.

Topics Covered:

- Decision Support for Financial Trading Systems
- Electronic Communication Networks (ECNs)
- Electronic Trading Systems and SEC Rules and Regulations
- Emerging Technologies for Financial Trading Systems
- Intelligent Charting Systems
- Knowledge Management for Finance and Investments
- Mobile and Ubiquitous Financial Trading Systems
- Online Brokerage Trading Systems
- Supercomputers for Flash Trading
- Technology as an Enabler of Financial Market Integration

Print: US $185.00 | Perpetual: US $280.00 | Print + Perpetual: US $370.00

Alexander Y. Yap is an Associate Professor of Information Systems at Elon University, North Carolina. He holds a Ph.D. degree in Information Systems from Copenhagen Business School (Denmark), an MBA in International Management from Exeter University (UK), and a Masters in Development Economics from Williams College (USA). He won the prestigious ‘ICIS Best Paper Award’ in Helsinki, Finland. His research papers have been published in the Journal of Global Information Management, the Journal of E-Commerce Research, Journal of Electronic Markets, and the Journal of Enterprise Information Systems, among others. He has also published in prestigious IS conferences, which include the ICIS, ECIS, and ACM.
Chapter 1

Information Technology and Financial Markets
Crooks Donald (Wagner College, USA)
Slayton John (Trust Company of the South, USA)
Burbridge John (Elon University, USA)

Chapter 2

Trading Anytime Anywhere with Ubiquitous Financial Information Systems
Yap Alexander Y. (Elon University, USA)

Chapter 3

The Market Fraction Hypothesis under Different Genetic Programming Algorithms
Kampouridis Michael (University of Essex, UK)
Chen Shu-Heng (National Cheng Chi University, Taiwan)
Tsang Edward (University of Essex, UK)

Chapter 4

Algorithmic Trading Strategy Making
Deng Xiaotie (City University of Hong Kong, Hong Kong & University of Liverpool, UK)
Wang Feng (Wuhan University, China)
Dong Keren (University of Liverpool, UK)

Chapter 5

Technology Bundling
Yap Alexander (Elon University, USA)
Synn Wonhi (Elon University, USA)

Chapter 6

Predicting Stock Price Movement from Financial News Articles
Schumaker Robert P. (Cleveland State University, USA)
Chen Hsinchun (University of Arizona, USA)

Chapter 7

Virtual Reality Support for Trading
Kelley Joe (Humboldt State University, USA)

Chapter 8

Survey of Trading Systems for Individual Investors
Kersch M. (Saarland University, Germany & Hochschule Liechtenstein, Liechtenstein)

Chapter 9

Grid Super-Computable General Equilibrium Models
Kelley Joe (Humboldt State University, USA)

Chapter 10

Linked Data Driven Information Systems as an Enabler for Integrating Financial Data
O’Riain Seán (National University of Ireland Galway, Ireland)
Harth Andreas (Karlsruhe Institute of Technology (KIT), Germany)
Curry Edward (National University of Ireland Galway, Ireland)

Chapter 11

The Persisting Human Element of the Electronic Trading Habit
van Daalen Fuente Roger F.A. (Lancaster University Management School, UK)

Chapter 12

DSP Acceleration for Dynamic Financial Models
Kelley Joe (Humboldt State University, USA)

Chapter 13

FPGA Speedup for Financial Network Models
Kelley Joe (Humboldt State University, USA)

Chapter 14

Using Genetic Programming Systems as Early Warning to Prevent Bank Failure
Almanza Alma Lilia Garcia (Banco de Mexico, Mexico)
Jaramillo Serafin Martinez (Banco de Mexico, Mexico)
Alexandrova-Kabadjova Biliana (Banco de Mexico, Mexico)
Tsang Edward (University of Essex, UK)

Order Your Copy Today!

Name: ____________________________________________
Organization: ______________________________________
Address: __________________________________________
City, State, Zip: _____________________________________
Country: __________________________________________
Tel: ________________________________________________
Fax: ________________________________________________
E-mail: ____________________________________________

☐ Enclosed is check payable to IGI Global in
US Dollars, drawn on a US-based bank

☐ Credit Card ☐ Mastercard ☐ Visa ☐ Am. Express

3 or 4 Digit Security Code: ___________________________

Name on Card: _____________________________________
Account #: _________________________________________
Expiration Date: ____________________________________