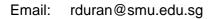
**Randall E. DURAN** 

School of Computing and Information Systems Singapore Management University (SMU) 80 Stamford Road Singapore 178902



## **Summary Statement**

**Research Interests** 

- Fintech
- Artificial Intelligence and Machine Learning
- Sustainability
- Risk Management
- Quantum Computing

Teaching Interests

Financial Analytics

- Financial Markets Processes and Technology
- RiskTech and RegTech
- Corporate & Consumer Financial Technology

## Education

Master of Science, Massachusetts Institute of Technology, United States of America, 1992

Bachelor of Science, Massachusetts Institute of Technology, United States of America, 1990

## **Academic Appointments**

Senior Lecturer of Information Systems, School of Computing and Information Systems, SMU, Nov 2020 -Present

# **Academic Administrative Positions**

Coordinator, BSc (IS) Financial Technology Track, School of Computing and Information Systems, SMU, Jul 2024 - Present

# Other Positions and Affiliations

Chairman, Catena Technologies, United States of America, Jul 2017 - Apr 2020 Chief Information Officer, 1st Financial Bank USA, United States of America, Apr 2013 - Jun 2017 Chief Executive Officer, Catena Technologies, Singapore, Apr 2002 - Mar 2013 Vice President of Enterprise Solutions, Reuters, Singapore, Jan 2000 - Dec 2002

General Manager - South East Asia, TIBCO Finance Technology, Singapore, Sep 1992 - Dec 2000



## **Professional Memberships**

Member, Singapore Fintech Association, 2022

Member, InfraGard Cyber Finance Working Group, 2018

Member, Financial Services Information Sharing and Analysis Center, 2013 - 2017

Member, American Bankers Association - Cyber and Information Security Working Group, 2013 - 2020

## RESEARCH

## **Research and Project Areas**

Fintech Regtech Machine Learning Cryptocurrencies DLT and Smart Contracts Cybersecurity

## **Publications**

## Journal Articles [Refereed]

Fintech data infrastructure for ESG disclosure compliance, by DURAN, Randall E.; TIERNEY, Peter. (2023). *Journal of Risk and Financial Management, 16* (8), 1-19. https://doi.org/10.3390/jrfm16080378 (Published)

Smart contracts: Will Fintech be the catalyst for the next global financial crisis?, by DURAN, Randall; GRIFFIN Paul R. (2021). *Journal of Financial Regulation and Compliance, 29* (1), 104-122. https://doi.org/10.1108/JFRC-09-2018-0122 (Published)

A retail bank's BPM experience, by SHANKARARAMAN, Venky; GOTTIPATI, Swapna; DURAN, Randall E.. (2012). *Journal of Information Technology Case and Application Research*, *14* (3), 33-45. https://doi.org/10.1080/15228053.2012.10845705 (Published)

A framework for comparing high performance computing technologies, by DURAN, Randall E.; CHEN, Ding; SARASWAT, Rish; HALLMARK, Aaron. (2014). *International Journal of Computational Science and Engineering*, *9* (1-2), 119-129. https://doi.org/10.1504/IJCSE.2014.058704 (Published)

Extending CRM with mobile messaging: A case study, by DURAN, Randall E.. (2010). *International Journal of Business Innovation and Research, 4* (1-2), 15-29. https://doi.org/10.1504/IJBIR.2010.029538 (Published)

## Books (Refereed)

*Regulation of fintech in Asia-Pacific* by DURAN, Randall E.; LAWRENCE, Adrian; RAFTERY, Gavin. (2021). Singapore: LexisNexis. (Published)

*Financial Services Technology: Processes, Architecture, and Solutions* (2nd ed), by DURAN, Randall E.. (2017). Singapore: Cengage Learning Asia. (Published)

## **Book Chapters**

Delivering SMS-based mobile services using SOA, by DURAN; Randall E., DO, Anh Duc. (2012). In ALENCAR, Paulo; COWAN, Donald Cowan (Ed.), *Handbook of research on mobile software engineering: Design, implementation, and emergent applications* (pp. 138-149) IGI Global. (Published)

Business Process Management in Financial Services, by DURAN, Randall E. (2012). In Venky Shankararaman, J. Leon Zhao, & Jae Kyu Lee (Ed.), *Business enterprise, process, and technology management: Models and applications* Singapore: IGI Global. https://doi.org/10.4018/978-1-4666-0249-6.ch013 (Published)

Applying soft cluster analysis techniques to customer interaction information, by DURAN, Randall E.; ZHANG, Li; HAYHURST, Tom. (2010). In CASILLAS, Jorge; MARTÍNEZ-LÓPEZ, Francisco J. (Ed.), *Marketing intelligent systems using soft computing* (pp. 49-78) Springer. (Published)

Probabilistic Sales Forecasting for Small and Medium-Size Business Operations, by DURAN, Randall E.. (2008). In PRASAD, Bhanu (Ed.), *Soft computing applications in business* (pp. 129-146) Springer. (Published)

Case study: Enterprise integration and process improvement, by DURAN, Randall E.. (2007). In Wing Lam & Venky Shankararaman (Ed.), *Enterprise architecture and integration: Methods, implementation and technologies* IGI Global. https://doi.org/10.4018/978-1-59140-887-1.ch014 (Published)

## **Conference Proceedings**

Enabling GPU acceleration with messaging middleware, by DURAN, Randall E.; ZHANG, Li; HAYHURST, Tom. (2011.0). *Proceedings of the International Conference, ICIEIS 2011, Kuala Lumpur, Malaysia, November 14-16*, (pp. 410-423) Berlin, Heidelberg: Springer. (Published)

## **Research Grants**

## Singapore Management University

Quantum-Enhanced Modelling of Financial Time-Series Data for Rare Event Forecasting, QEP Call for Proposals, Quantum Engineering Programme (QEP), Co-PI (Project Level): Paul Robert GRIFFIN, Rajesh Krishna BALAN, 2022, S\$1,372,272

## TEACHING

## **Courses Taught**

Singapore Management University

Undergraduate Programmes :

**Enterprise Solution Development** 

**Financial Analytics** 

Financial Markets Processes and Technology

IS Project Experience (Research)

Postgraduate Professional Programmes :

Corporate and Consumer Financial Technology Digitalisation in Retail Banking Technology Digital Transformation in Retail Banking Technology Financial Markets Systems and Technology Innovations in Digital Payments Risktech and Regtech

# **Other Institutions**

C Programming, Masters, U.S. Department of Agriculture Graduate School

# **Teaching Publications**

<u>Cases</u> DBS Bank: Championing Change, by Duran, Randall E.; Sproule, Kevin. (2012). SMU-12-0008. (Published)

# Consultancy

NYU Stern School of Business, Aug 2023 - Present

# UNIVERSITY SERVICE

# Singapore Management University

Faculty Advisor, Institute of Innovation & Entrepreneurship (IIE) Greenhouse, Jan 2021 - Present Committee Member, Innovation Grant Evaluation Panel, Dec 2020 - Present

# **EXTERNAL SERVICE – PROFESSIONAL**

Member Board of Advisors, Almond Fintech, 2023 - Present Member Board of Advisors, BCware, 2021 - Present Member Board of Directors, Paragon Research and Development, 2020 - 2023