

## A. THUSHARI P. SILVA

Faculty of Information Technology, University of Moratuwa, Katubadda

Phone: (+94) 0768784572

thusharip@uom.lk

### EDUCATION

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- October, 2014      **PhD in Information Systems**  
City University of Hong Kong, Hong Kong  
Dissertation: A Research Analytics Framework for Expert Recommendation in Research Social Networks  
Thesis Advisor: Professor Jian Ma  
*Nominee for the 'Outstanding PhD Thesis Award'*
- May, 2010      **MSc in Information Communication Technologies**  
Asian Institute of Technology, Thailand  
Thesis: Linked Open Data in Disaster Management  
Grade: Excellent
- March, 2004    **BSc (Special) in Computer Science and Statistics**  
University of Kelaniya, Sri Lanka  
Frist Class (Honors)

### WORKING EXPERIENCE

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- Oct. 2015 - present      **Senior Lecturer – Department of Computational Mathematics**  
University of Moratuwa
- Aug. 2014 – Aug. 2015      **Post-doctoral Fellow**, Department of Information Systems  
City University of Hong Kong
- Sep. 2013 – Jul. 2014      **Research Assistant**, Department of Information Systems  
City University of Hong Kong
- 2006 – 2014      **Lecturer**, Faculty of Information Technology  
University of Moratuwa, Sri Lanka
- 2005 – 2006      **Research Assistant**, Faculty of Information Technology  
University of Moratuwa, Sri Lanka
- 2004 – 2005      **Assistant Lecturer**, Department of Computer Science & Statistics  
University of Kelaniya, Sri Lanka

## RESEARCH INTERESTS

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- Semantic Big data analytics & Business intelligence
- Research social network analysis & Recommendations
- Machine Intelligence
- Semantic Web and Ontology

## PUBLICATIONS

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### Journal Articles

- Dushyanthi U Vidanagama, **Thushari Silva**, Asoka Karunananda, (2019) "Deceptive consumer review detection: a survey" *Artificial Intelligence Review*, <https://doi.org/10.1007/s10462-019-09697-5>
- Yezheng Liu, Qiang Xiong, Jianshan Sun, Yuanchun Jiang, **Thushari Silva**, Haifeng Ling, (2019), "Topic-based hierarchical Bayesian linear regression models for niche items recommendation", *Journal of Information Science*,45
- Yezheng Liu , Fei Du, Jianshan Sun, **Thushari Silva**, Yuanchun Jiang, Tingting Zhu (2019) "Identifying social roles using heterogeneous features in online social networks", *Journal of the Association for Information Science and Technology*,<https://doi.org/10.1002/asi.24160>
- **Thushari Silva**, Jian Ma (2017) "Expert profiling for collaborative innovation: big data perspective", *Information Discovery and Delivery*,45
- **Thushari Silva**, Jian Ma, Chen Yang (2014) "Process Analytics Approach for R&D Project Selection", *ACM Transactions on Management Information Systems*, 5(4), Article 21
- **Thushari Silva**, Jian Ma, Chen Yang and Haidan Liang (2014) "A Profile boosted RAF to Recommend Journals for Manuscript", *Journal of the Association for Information Science and Technology*, Published Online
- **Thushari Silva**, Zhiling Guo, Jian Ma, Hongbing Jiang and Huaping Chen (2012), "A Social Network-Empowered Research Analytics Framework for Project Selection", *Decision Support Systems*, 55(4), 957-968
- Chen Yang, **Thushari Silva**, Xiaoyan Liu, Jian Ma (2014) "A Multilevel Information Mining Approach for Collaborator Recommendation in Online Scientific Communities", *The Computer Journal*, doi: 10.1093/comjnl/bxu033
- **Thushari Silva**, Vilas Wuwongse, Hitesh Nidhi Sharma (2012), "Disaster Mitigation and Preparedness using Linked Open Data", *Journal of Ambient Intelligence and Humanized Computing*, 3(2), 1-12

## Conference & Workshop Proceedings

- Minuri Rajapakse, **Thushari Silva**, “Semantic Information Retrieval based on Topic Modeling and Community Interests Mining”, MERCcon – 2019, University of Moratuwa, Accepted for publication.
- Erandi Praboda, **Thushari Silva**, “Fuzzy Logic Based Backtesting System”, 2<sup>nd</sup> SLAAI-ICAI- 2018, In Proceedings of CCIS Springer Series.
- Dilum Gunathilaka, Shamila Pathirana, Sasanka Senarathne, Jithmi Weerasekara, **Thushari Silva**, “Feature based opinion mining for hotel profiling with the use of hotel reviews”, 2<sup>nd</sup> SLAAI-ICAI- 2018, In Proceedings of CCIS Springer Series.
- MZF Amara, R Bandara, **Thushari Silva**, "SLIC Based Digital Image Enlargement.",18th International Conference on Advances in ICT for Emerging Regions (ICTer) - Colombo, Sri Lanka,2018
- I.U. Kothalawala **Thushari Silva**,"Colour-based Image Generation using CGAN.",18th International Conference on Advances in ICT for Emerging Regions (ICTer) - Colombo, Sri Lanka,2018
- N. R. Weeraddana, **A. Thushari P. Silva**, P. W. D. C. Jayathilake,"Detection of Black Regions in the Forex Market By Analyzing High-Frequency Intraday Data.",2018 18th International Conference on Advances in ICT for Emerging Regions (ICTer),Colombo, Sri Lanka,2018, 384-391
- **Thushari Silva** & Jian Ma (2014) “Big Data Analytics for Patent Trading in Markets for Innovation”, The 2014 International Workshop on Big Data Commerce (BDC 2014), 27 December 2014, Shenzhen, China, 9-12
- Terence Chun-Ho Cheung, **Thushari Silva** & Jian Ma (2014) “Online Marketing through Big Data Analytics: A Case Study of Southeast China”, The 2014 International Workshop on Big Data Commerce (BDC 2014), 27 December 2014, Shenzhen, China, 98-99
- Yunhong Xu, **Thushari Silva**, Yu Chen, Yuanwei Du & Nanli Zhu (2015) “Can Deep Learning Approach be Virtually Cultivated via Social Learning Networks”, Pacific Asia Conference on Information Systems (PACIS), 7-9 July Singapore, PACIS 2015 Proceedings, Paper 8
- Chun-Ho Cheung & **Thushari Silva** (2015) “Perceived Importance of Portfolios in a Smart CV after an Education Reform: An Empirical Analysis”, Pacific Asia Conference on Information Systems (PACIS), 7-9 July Singapore, PACIS 2015 Proceedings, Paper 35
- Chen Yang, Jianshan Sun, **Thushari Silva**, Xiaoyan Liu, Jian Ma (2014) “Complementary Collaborator recommendation within a restrictive context: A weighted topic model enhanced approach”, Proceedings of the Pacific Asia Conference on Information Systems (PACIS), 24-28 June, 2014, Chengdu, China. Paper 297

- Jianshan Sun, Jian Ma, Xiaoyan Liu, Zhiying Liu, Gang Wang, Hongbing Jiang, **Thushari Silva** (2013) “A Novel Approach for Personalized Article Recommendation in Online Scientific Communities”, 46th Hawaii International Conference on System Sciences, HICSS-46 2013, Hawaii, USA, *Nominated for the best paper award*
- **Thushari Silva**, Jian Ma, Xu Yunhong, Du Wei (2014) “Crowdsourcing-based Expert Profiling for Collaborations in Research Social Networks”, SIG on Business Processes and Services workshop in Pre – International Conference on Information Systems (ICIS), 14 December 2014, Auckland, New Zealand, Accepted
- **Thushari Silva**, Jian Ma, Chen Yang, Hongbing Jiang, Jianshan Sun, (2012) “Process Oriented Research Analytics Framework for R&D Project Selection”, SIG on Business Processes and Services workshop in Pre – International Conference on Information Systems (ICIS), 15 December 2012, Orlando, Florida, USA, 82-89
- Haidan Liang, **Thushari Silva**, Jian Ma, Mingyu Zhang, Xu Yunhong, Huaping Chen, (2013) “Exploring Impact of Research Social Networking Services on Research Dissemination”, SIG Business Processes and Services workshop in Pre – International Conference on Information Systems (ICIS), 13 December 2013, 69-75, Milan, Italy
- **Thushari Silva**, Vilas Wuwongse, Hitesh Nidhi Sharma (2011), “Linked Data in Disaster Mitigation and Preparedness”, Third International Conference on Intelligent Networking and Collaborative Systems (INCoS 2011), 30 November - 2 December 2011 in Fukuoka, Japan
- **Thushari Silva**, Ajith P. Madurapperuma, (2007) “Ontology Driven Approach to Disaster Management”, Sri Lankan Association for Artificial Intelligence (SLAAI) , 3(1), 48-54

## WORKING PAPERS

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- **Thushari Silva**, Efraim Turban, Jian Ma, “Like or Share? Effect of Research Social Network on Scholarly Impact”, Target Journal: Journal of Management Information Systems

## PROJECTS GRANTS

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- **Thushari Silva**, “Multi-agent based Big Data Analytics for Deceptive Review Detection” , SRC Grants, University of Moratuwa, 2017-2020

## **POSTGRADUATE RESEARCH SUPERVISION**

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- Title : Big Data Analytics framework for Heterogenous Data Integration  
Degree reading for: MSC by Research
- Title: Multi-agent based Big Data Analytics for Deceptive Review Detection  
Degree reading for: PhD
- Title : Ontology based Big data analytics for Travel recommendation  
Degree reading for: PhD

## **TEACHING EXPERIENCE**

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### **Teaching Assistant,**

### **Department of Information Systems , City University of Hong Kong**

#### **Undergraduate Level**

- Systems Analysis & Design, 2013 (Semester B)
- Multi-Channel Information Management Technologies, 2013 (Semester A)
- Data Management – 2011, 2012, 2014 (Semester A)
- Management Support and Business Intelligence Systems 2011 (Semester B)

### **Senior Lecturer/Lecturer - Faculty of Information Technology**

#### **Undergraduate Level**

- Machine Learning and Pattern Recognition – 2017,2018,2019
- Automata Theory, 2008, 2016, 2017,2018,2019
- Advanced Database Management System, 2017,2018,2019
- Database Management Systems, 2007
- Data Structures & Algorithms, 2007
- Computational Mathematics, 2008

### **Senior Lecturer/Lecturer - Faculty of Information Technology**

#### **Postgraduate Level**

- Neuro Science and Neuro Computing - 2016,2017
- Semantic Web and Ontological Engineering - 2016, 2017,2018,2019
- AI for Distributed computing – 2017,2018,2019

## **ACADEMIC SERVICES**

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Editor of the 2<sup>nd</sup> SLAAI-IAI, CCIS::890, Springer Series, Conference proceedings

Reviewer of Electronic Commerce Research Journal - 2019

Reviewer of Journal of Global Information Management, 2017

Reviewer of Pacific Asia Conference on Information Systems, 2013

Reviewer of International Conference on Information Systems, 2013  
Reviewer of Expert Systems with Application Journal , 2014  
Reviewer of International conference on Information System, 2012  
Reviewer of Journal of Ambient Intelligence and Humanized Computing, 2012  
Reviewer of International Conference on Information Technology Research, 2016

## **HONORS & AWARDS**

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2013                Research Tuition Scholarship – City University of Hong Kong  
2011 – 2012        Capital Markets Cooperative Research Center Limited (CMCRC) PhD  
                          Scholarship  
2010 – 2013        Hong Kong Government Postgraduate Studentship  
2008 – 2010        Finland Government Scholarship

## **POSITIONS HELD**

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- President - Sri Lankan Association for Artificial Intelligence – 2018,2019
- Vice-President - Sri Lankan Association for Artificial Intelligence - 2016, 2017
- Student Counselor – University of Moratuwa – June, 2016 – present
- Research Coordinator – Department of Computational Mathematics, University of Moratuwa, 2017 – Present
- Secretary – University of Moratuwa Teachers’ Association (UMTA) 2017/2018 & 2018/2019
- Acting Head of the Department of Computational Mathematics – November, 2016 & December, 2017

## **MEMBERSHIPS**

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- Association for Information Systems
- Sri Lankan Association for Artificial Intelligence

## **SKILLS**

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- Java, Python, Scala, SPARK PHP, C, R Programming,
- MATLAB, Minitab, PLS, SPSS
- MySQL, SQL Server, PL/SQL, NoSQL, SPARQL
- Protégé,