

Kasthuri Jayarajah

CONTACT INFORMATION

LiveLabs Urban Lifestyle Innovation Platform
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RESEARCH INTERESTS

Mobile and Pervasive Computing, Social Networks, Human Behavior Modeling.

EDUCATION

Singapore Management University, Singapore.

PhD in Information Systems (Ongoing), Expected date of completion - June 2019.
Advisors: Dr. Archan Misra (SMU), Dr. Rajesh Balan (SMU), Dr. Lui Guimei (A*STAR).
Current Academic Standing: GPA 3.9 (<4.0).

Carnegie Mellon University, Pittsburgh, USA.

Exchange Student during Fall 2016.

National University of Singapore, Singapore.

Master of Computing, Infocomm Security, June 2013.
GPA: 4.5 (<5.0)

University of Moratuwa, Sri Lanka.

B. Sc. Eng., Electronic and Telecommunication Engineering, October 2010.
Rank: 2nd, GPA: 4.10 (<4.20)

RESEARCH EXPERIENCE

Visiting Scholar May 2017 - Current
NetOS Group, Computer Laboratory, University of Cambridge, United Kingdom.
Advised by: Prof. Cecilia Mascolo.

Scholar Aug 2016 - Dec 2016
Assistive Technology Group, Human-Computer Interaction Institute, Carnegie Mellon University, USA.
Advised by: Dr. Jennifer Mankoff, Dr. Anind Dey.

Research Intern May 2015 - August 2015
Situational Understanding Research Institute, US Army Research Laboratory, USA.
Advised by: Prof. Tarek Abdelzaher (UIUC), Dr. Geeth de Mel (IBM Research).

Research Engineer July 2012 - July 2014
Living Analytics Research Center, Singapore Management University, Singapore.
Advised by: Dr. Archan Misra.

Graduate Student Researcher Jan 2012 - March 2012
Interactive and Digital Media Institute, National University of Singapore, Singapore.
Advised by: Dr. Owen Noel Fernando.

PROFESSIONAL EXPERIENCE

Engineer - Technology Oct 2010 - Jan 2012
Virtusa Corporation (NYSE: VRTU), Sri Lanka.

Trainee Engineer, Huawei Technologies Lanka Co. Ltd., Sri Lanka. Oct 2008 - Mar 2009

PUBLICATIONS

Jayarajah, K., V. Subbaraju, D. Weerakoon, A. Misra, L. T. Tam and N. Athaide. Discovering Anomalous Events from Urban Informatics Data. *SPIE Defense+Security 2017*.

Jayarajah, K., R. K. Balan., M. Radhakrishnan, A. Misra and Y. Lee. LiveLabs: Enabling In-Situ Behavioural Experiments. *ACM MobiSys 2016*.

Jayarajah, K. and A. Misra. Can Instagram Help Understand Micro-Events?. *The 19th International Conference on Information Fusion (FUSION 2016)*.

Jayarajah, K., Z. Lantra and A. Misra. Fusing WiFi and Video Sensing for Accurate Group Detection in Indoor Spaces. *The Third Intl' Workshop on Physical Analytics (co-located with ACM MobiSys 2016)*.

Jayarajah, K., M. Radhakrishnan, C. Zakaria. Duplicate Issue Detection for the Android Open Source Project, *5th Intl' Workshop on Software Mining (co-located with IEEE/ACM Intl' Conference on Automated Software Engineering 2016)*.

Misra, A., Z. Lantra and **K. Jayarajah**. Ontology-aided Feature Correlation for Multi-Modal Urban Sensing, SPIE Defense+Security 2016.

Dai, B. T., **K. Jayarajah**, E. P. Lim, A. Misra, S. Nayak. A Study on Singapore Haze. 1st International Workshop on Understanding Situations Through Multimodal Sensing (co-located with ICDCN), 2016.

Jayarajah, K., S. Yao, R. Mutharaju, A. Misra, G. De Mel, J. Skipper, T. Abdelzaher, M. Kolodny. Social Signal Processing for Real-Time Situational Understanding: A Vision and Approach. SocialSens Workshop co-located with IEEE MASS, 2015.

Jayarajah, K., Y. Lee, A. Misra, R. K. Balan. Need Accurate User Behavior? Pay Attention to Groups!, ACM UbiComp 2015.

Jayarajah, K., M. Radhakrishnan, C. S. Hoi, A. Misra. Candy Crushing Your Sleep, 4th Workshop on Mobile Systems for Computational Social Science (co-located with ACM UbiComp 2015).

Jayarajah, K., A. Misra, X. W. Ruan, E. P. Lim. Event Detection: Exploiting Socio-Physical Interactions in Physical Spaces, IEEE/ACM ASONAM 2015.

Nayak, S., A. Misra, **K. Jayarajah**, P. K. Prasetyo, E. Lim. Exploring Discriminative Features for Anomaly Detection in Public Spaces, SPIE DSS 2015.

Sen, R., Y. Lee, **K. Jayarajah**, A. Misra and R. K. Balan. GruMon: Fast and Accurate Group Monitoring for Heterogeneous Urban Spaces, ACM SenSys 2014.

Jayarajah, K., R. Kauffman, A. Misra. Exploring Variety Seeking Behavior in Mobile Users. UbiComp'14 Adjunct Proceedings, September 2014.

Misra, A., **K. Jayarajah**, S. Nayak, P. K. Prasetyo and E. Lim. Socio-Physical Analytics: Challenges and Opportunities. 1st Workshop on Physical Analytics colocated with ACM MobiSys 2014.

Liu, S., S. Wang, **K. Jayarajah**, A. Misra and R. Krishnan. 2013. TODMIS: Mining communities from trajectories, ACM CIKM 2013.

Khan, A.J., **K. Jayarajah**, D. Han, A. Misra, R. K. Balan and S. Seshan. CAMEO: a middleware for mobile advertisement delivery, ACM MobiSys 2013.

Naoko, T., I. Horathalge, O. N. N. Fernando, K. Zhu, **K. Jayarajah**, Y. Fernandopulle, R. Nakatsu. KabukiMono+: The Art of Kabuki Transformed, 3rd International Conference on Culture and Computing, 2012.

Sivakumaran, P., **K. Jayarajah**, I. Kanaganayagam, C. Gopalasingham, E. C. Kulasekere. Sonar Navigation Aid for the Visually Impaired, In proceedings of the 16th Annual Symposium of the Engineering Research Unit, Sri Lanka, November 2010, 193-198.

DEMOS AND POSTERS

Jayarajah, K., Z. Lantra, R. Kumar, A. Misra. Fusing WiFi and Video Sensing for Accurate Group Detection in Indoor Spaces, ACM MobiSys 2016.

Jayarajah, K., A. Misra, X. W. Ruan, E. P. Lim. Social Interactions-based Event Detection for Public Spaces , ICDCN 2016.

Jayarajah, K., Sen, R., Y. Lee, S. Nayak, A. Misra and R. K. Balan. Group analytics and insights for public spaces, ACM SenSys 2014.

Sen, R., Y. Lee, **K. Jayarajah**, A. Misra and R. K. Balan. GruMon: Fast and Accurate Group Monitoring for Heterogeneous Urban Spaces, ACM HotMobile 2014.

AWARDS AND HONORS

Carnegie Mellon University Overseas Exchange, funded by the Living Analytics Research Center in SMU, 2016-2017.

A*STAR Graduate Scholarship (AGS), 2014 - 2018. Part of the first batch of SMU scholars to be awarded the AGS. A*STAR is Singapore’s leading public sector agency for spearheading economy-oriented research in STEM.

O. N. M. Kulasthira Award for academic excellence, University of Moratuwa, 2013.

Winner of third prize, NUS School of Computing Project Showcase 2012/2013.

Certificate of Appreciation, Virtusa Corp., 2011.

Winner of Merit Award, Tertiary Category, National Best Quality Software Awards, British Computer Society, Sri Lankan Chapter, 2010.

Mahapola Scholarship, awarded by the Government of Sri Lanka, 2006.

SERVICES

TPC	2017	ACM S3 Workshop (co-located with ACM MobiCom 2017)
Reviewer	2017	PACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)
Reviewer	2016	IEEE Transactions on Mobile Computing
Web Director	2017	ACM SIGMOBILE
Co-Chair	2016	Women’s Workshop co-located with MobiSys 2016
Co-Web Chair	2016	14th ACM International Conference on Mobile Systems, Applications, and Services (MobiSys 2016)
Board Member	2015-2016	Networking Networking Women (An ACM SIGMOBILE program supported by IEEE COMSOC, IEEE TCCN, MSR, Google and HP Labs.
Web Chair	2016	17th International Conference on Distributed Computing and Networking. January, 2016
Web Chair	2015	2nd International Workshop on Physical Analytics, colocated with MobiSys’15. May, 2015
Web Chair	2015	4th ACM Workshop on Mobile Systems for Computational Social Science. September, 2015
Founding Member	2010	Environment, Health and Safety Initiative, Virtusa Corp.

STUDENTS
MENTORED

Dulanga Weerakoon (Undergrad), University of Moratuwa, Sri Lanka. December 2016 to February 2017.

Sumit Singh (Masters), Indian Institute of Technology, Kharagpur, India. June 2016 - July 2016.

Zaman Lantra (Undergrad), University of Moratuwa, Sri Lanka. October 2015 to April 2016.

IN MEDIA

Research@SMU, Issue 14, LARC Research Exhibition: Better Living Through Analytics.

REFERENCES
AVAILABLE UPON
REQUEST.