

Dr Yeong Lee Seng

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Education:

Master of Engineering (MEng) Electronic, The University of Nottingham, Malaysia

Teaching:

CTB2207 Web Programming 2

CTB3202 Programming for Distributed Systems

CCB3201 Distributed Systems

NET3204 Distributed Systems

CSC2034 Embedded Systems

CSC3014 Computer Vision

NET2102 Data Communications

Brief Employment History:

Arrow T-Park Sdn. Bhd., Project Manager

The University of Nottingham, Teaching Assistant

The University of Nottingham, Lecturer (Part-time)

Olikos Engineering, Project Manager

OA Solutions, Systems Integrator

Research Interests:

Computer vision using embedded systems in a distributed environment.

Selected Publications:

1. K. L. Lim, K. P. Seng, **L. S. Yeong**, and L.-M. Ang, "Assistive Indoor Navigation Systems for the Visually Impaired: A Review," in Encyclopedia of Information Science and Technology, M. Khosrow-Pour, Ed., 3 ed Hershey, PA, USA: IGI Global, 2014.
2. K. L. Lim, K. P. Seng, **L. S. Yeong**, L.-M. Ang, and S. I. Ch'ng, "Pathfinding for the Navigation of Visually Impaired People," submitted to Advances in Human Computer Interaction, Hindawi
3. K. L. Lim, K. P. Seng, **L. S. Yeong**, L.-M. Ang, and S. I. Ch'ng, "Uninformed Pathfinding: A New Approach," submitted Expert Systems with Applications, Elsevier.
4. K. L. Lim, K. P. Seng, **L. S. Yeong**, L.-M. Ang, and S. I. Ch'ng, "A New Approach of Informed Pathfinding with its Application to Wireless Navigation of Visually Impaired People," submitted to Journal of Computational Science, Elsevier.
5. K. L. Lim, K. P. Seng, **L. S. Yeong**, S. I. Ch'ng, and L.-M. Ang, "The Boundary Iterative-Deepening Depth-First Search," International Journal of Advances in Computer Science and its Applications (IJCSIA), vol. 4, Issue 1, pp. 45-50, 9 January, 2014.
6. K. L. Lim, **L. S. Yeong**, K. P. Seng, S. I. Ch'ng, and L.-M. Ang, "Uninformed Multi-Goal Pathfinding on Grid Maps," in 2014 International Conference on Information Science, Electronics and Electrical Engineering (ISEEE 2014), Sapporo City, Hokkaido, Japan, 2014.
7. K. L. Lim, **L. S. Yeong**, K. P. Seng, S. I. Ch'ng, and L.-M. Ang, "A Simplified Implementation of the Boundary Iterative-Deepening Depth-First Search Algorithm," in International Conference on Electronics, Information and Communication (ICEIC 2014), pp. 173-174, Kota Kinabalu, Malaysia, 2014.
8. K. L. Lim and F. Y. Annaz, "Implementation of the Trémaux Maze Solving Algorithm to an Omnidirectional Mobile Robot," in International Conference on Electronics, Information and Communication (ICEIC 2014), pp. 61-62, Kota Kinabalu, Malaysia, 2014.
9. K. L. Lim, K. P. Seng, **L. S. Yeong**, S. I. Ch'ng, and L.-M. Ang, "The Boundary Iterative-Deepening Depth-First Search Algorithm," in Second International Conference on Advances in Computer and Information Technology - ACIT 2013, pp. 119-124, Kuala Lumpur, Malaysia, 2013.
10. Wai Chong Chia, **Lee Seng Yeong**, Sue Inn Ch'ng, Kah Phooi Seng, Li-Minn Ang, "The Effect of Rainfall on Feature Points Extraction and Image Stitching", in Proceedings of the International Conference on Information Science, Electronics and Electrical Engineering (ISEEE), 2014.
11. Nyugen Ho Minh Quang, Wai Chong Chia, Kah Phooi Seng, **Lee Seng Yeong**, "Multi-view Image Compression for Visual Sensor Networks (VSNs)", in Proceedings of the World Congress on Computer and Information Technology (WCCIT), pp.1-6, June 2013.
12. **Lee Seng Yeong**; Li-Minn Ang; Kah Phooi Seng; , "Strip-based watershed using multiple-bank memory storage," Computer Symposium (ICS), 2010 International , vol., no., pp.553-556, 16-18 Dec, 2010.
13. **Lee Seng Yeong**; Li-Minn Ang; Kah Phooi Seng; , "Efficient connected component labelling using multiple-bank memory storage," Computer Science and Information Technology (ICCSIT), 2010 3rd IEEE International Conference on , vol.9, no., pp.75-79, 9-11 July, 2010.
14. **Lee Seng Yeong**, Christopher Wing Hong Ngau, Li-Minn Ang, and Kah Phooi Seng, "Efficient Processing of a Rainfall Simulation Watershed on an FPGA-Based Architecture with Fast Access to Neighbourhood Pixels", accepted by EURASIP Journal on Embedded Systems, Volume 2009, Article ID 318654, 2009.

15. **Lee Seng Yeong**; Li-Minn Ang; Kah Phooi Seng; , "Simultaneous Neighbourhood Value Access from a Single Instance Storage on Multiple Memory Banks," Intelligent Human-Machine Systems and Cybernetics, 2009. IHMSC '09. International Conference on , vol.2, no., pp.436-439, 26-27 Aug, 2009.
16. **Lee Seng Yeong**; Li-Minn Ang; Kah Phooi Seng; , "3D Watershed Based on Rainfall-Simulation for Volume Segmentation," Intelligent Human-Machine Systems and Cybernetics, 2009. IHMSC '09. International Conference on , vol.2, no., pp.477-480, 26-27 Aug, 2009.
17. **Lee Seng Yeong**, Li-Minn Ang, King Hann Lim, Kah Phooi Seng: , "Face Detection from Greyscale Images Using Details from Categorized Wavelet Coefficients as Features for a Dynamic Supervised Forward Propagation Network," International Journal of Pattern Recognition and Artificial Intelligence (IJPRAI), vol.23, no.1, pp.3-15, May, 2009.
18. W. C. Chia, **L. S. Yeong** W. H. Ngau, L. W. Chew, L.-M. Ang, and K. P. Seng, "Human Face Detection and Tracking in a Wireless Vision Sensor Network Environment", Journal of Software Engineering, April-June issue, vol. 3, no. 4, pp. 7 – 14, 2009.
19. **Lee Seng Yeong**; Li-Minn Ang; Kah Phooi Seng; , "Closed boundary face detection in grayscale images using watershed segmentation and DSFPN," Intelligent Signal Processing and Communications Systems, 2008. ISPACS 2008. International Symposium on , vol., no., pp.1-4, 8-11 Feb, 2009.
20. **Yeong Lee Seng**, Li-Minn Ang, Kah Phooi Seng, "Face Detection from Greyscale Images Using Details from Categorized Wavelet Coefficients as Features for a Dynamic Counterpropagation Network," Computational Intelligence and Security, International Conference on, pp. 315-319, 2007 International Conference on Computational Intelligence and Security (CIS 2007), 2007.