

ABDUL HAZIM

"Learn and Innovate for the betterment of the World"

PERSONAL INFORMATION

Batu Caves, Selangor

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WORK EXPERIENCE

Crops for the Future 2016 2nd Year Project-CropBase Gap Filler
Developed a conceptual database gap filler framework and implemented some helper programs for the database of underutilised crops.
Reference: K R SELVARAJ · kr.selvaraj@nottingham.edu.my

EDUCATION

Master of Computer Science 2018-Present Universiti Malaya
Applied Computing (Artificial Intelligence) · Faculty: Computer Science and Information Technology
Curriculum:

- Computer Vision and Image Processing
- Robotics and Intelligent agents
- Research Methods and Dissertation

Bachelor of Science (cont) 2017-2018 University of Nottingham
Percentage: 70% · *Computer Science with Artificial Intelligence* · School: Computer Science
References: Assoc. Prof. Gail HOPKINS & Assist. Prof. Ender ÖZCAN
Curriculum:

- Machine Learning
- Search and Optimisation
- Computer Vision
- Designing Intelligent agents
- Computer Security
- Professional Ethics in Computing

Bachelor of Science 2015-2017 The University of Nottingham Malaysia Campus
Percentage: 77% · *Computer Science with Artificial Intelligence* · School: Computer Science
References: Assist. Prof. K R SELVARAJ & Assoc. Prof. Tomas MAUL
Curriculum:

- C, Java and Haskell
- Operating Systems and Concurrency
- Software Engineering Methodologies
- Databases and Interfaces (MySQL, PHP, JavaScript, HTML, CSS)
- Artificial Intelligence (Search, Optimisation, Scheduling)
- Human Computer Interaction

RECENT NOTABLE PROJECTS

<i>Stereo Vision Application</i>	<i>Nov 2018</i>	'Bokeh' using Stereo Vision
		Produce the highly sought after shallow depth of field effect (Bokeh) on photos using computer vision approach with binocular stereo vision. The additional depth information available in a stereo image could produce higher quality effects. It's an effect widely implemented in today's cameras including smartphones but there is significant gap in publicly available academic documentation. Essentially, the depth map is produced using various available techniques including local and global methods. This is to explore the pros and cons of each method.
<i>Stereo Vision</i>	<i>April 2018</i>	Comparisons of Stereo Correspondence Algorithms
		Implement and visually inspect the disparity maps produced by different stereo correspondence algorithms. Algorithms include local and global methods to fully explore the processing time and quality of end-result. To start, simple block matching is used starting with Sum of Squared Differences (SSD) followed by the use of Feature Descriptors such as Gradients and Speeded Up Robust Features (SURF). The widely known Dynamic Programming approach is also implemented.
<i>Multi-Agent System</i>	<i>March 2018</i>	Active vs Passive Coordination in Distributive Foraging Reflexive Multi-Agent System
		Active and Passive coordination methods are tested in a Multi-Agent System built from a previous project, Utility-Reflex Foraging Agent. Utility-Reflex Foraging Agent is a reflex agent with utility functions to allow it to make more informed decisions about its foraging tasks. It is seen that it performs better than a Simple Reflex Agent. Additionally, exploration techniques was also experimented to learn the most efficient method to spread out agents. These two elements will ensure competition among agents is minimised thus increasing the foraging efficiency.

SKILLS

<i>Basic</i>	PYTHON, HASKELL, L ^A T _E X, Android
<i>Intermediate</i>	MATLAB, C++, C, R, LAMP, Linux (Ubuntu/Debian), Stereo Vision, Machine Learning
<i>Advanced</i>	JAVA, Computer Hardware and Support, Microsoft Windows

OTHER INFORMATION

<i>Languages</i>	2013 · Industrial Arts Award - Recognition by my secondary school for my efforts in representing the school in various innovation competitions
	2013 · SPM Top Achiever Award - Sijil Pelajaran Malaysia is Malaysia's equivalent of the GCE O-Level standard
<i>Interests</i>	ENGLISH · Mother tongue
	MALAY · Advanced (speaking and writing)
<i>Interests</i>	Archery, Badminton and Football · Gaming (Strategy and Simulation) · Cooking and Baking · Visual Arts · Astronomy

December 9, 2018