

DEWI NASIEN

Profession : Senior Lecturer
University : Universiti Teknologi Malaysia, Johor Bahru, Malaysia
Expertise : Pattern Recognition, Soft Computing, Forensic Anthropology, Image Processing
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EMPLOYMENT

July 2012 - Present Senior Lecturer
Universiti Teknologi Malaysia

July 2009- July 2011 Research Asistant
Universiti Teknologi Malaysia
Research title: Development of Handwritten Recognition by Means of Chain Code, Vot number 79369, eScienceFund Research Project Ministry of Science, Technology and Innovation (MOSTI).

July 2008- November 2008 Lecturer Part Time (Borland C++), Faculty of Engineering
Universiti Teknologi Malaysia

EDUCATION

May 2011 **Universiti Teknologi Malaysia**
PhD in Computer Science
Research title: feature extraction and selection algorithm for chain code representation of handwritten character

Aug 2008 **Universiti Teknologi Malaysia**
MSc in Computer Science CGPA 3.47
Thesis title: conversion and optimization of SIMULINK model to C source code for robot simulation software (case study: robot mitsubishi RV-2AJ)

Jul 2005 **Universitas Islam Negeri Sultan Syarif Kasim, Indonesia**
BSc in Information Technology CGPA 3.61
Project title: study and implementation of cryptography algorithms: DES (Data Encryption Standard) and RSA (Rivest Shamir Adleman)

TEACHING

2013:

- Computational Mathematics, Database, Probability Statistics and Data Analysis

2012:

- Theory of Computer Science, C Programming

SUPERVISION

Current supervision:

Aini Najwa Azmi - MSc (2013-2014): Signature Fraud Detection

Iis Afrianty - MSc (2013-2014) : Forensic Anthropology

PUBLICATION

Journals:

2013:

- Aini Najwa Azmi, **Dewi Nasien**, Siti Mariyam Shamsuddin. (2013). A Review on Handwritten Character and Numeral Recognition for Roman, Arabic, Chinese and Indian. International Journal of advanced studies in Computers, Science & Engineering (IJASCSE), Volume: 2, Issue: 4, pp. 1-8, ISSN: 2278-7917
- Aini Najwa Azmi, **Dewi Nasien**. Feature Vector of Binary Image using Freeman Chain Code (FCC) Representation Based on Structural Classifier. International Journal on Document Analysis and Recognition (IJ DAR) (*Submitted*)

2011:

- **Dewi Nasien**, Habibollah Haron, Siti Sophiayati Yuhaniz. (2011). The Heuristic Extraction Algorithm for Freeman Chain Code of Handwritten Character. International Journal of Experimental Algorithms (IJE A). Publisher: CSC Press, Computer Science Journals, Volume: 1, Issue: 1, pp. 1-20, ISSN: 2180-1282

2010:

- **Dewi Nasien**, Habibollah Haron, Haswadi Hasan, Siti Sophiayati Yuhaniz. (2010). Chain Code Extraction of Handwritten Recognition using Particle Swarm Optimization. Journal of Intelligent Computing, DLine Journals portal. Volume: 1, Issue 4, pp. 198-207, ISSN: 0976-9013

Book Chapter:

2008:

- **Dewi Nasien** and Habibollah Haron (2008). The Study Of Off-Line Character Recognition And Neural Network Recognition, Soft Computing in Industrial Applications: Book Chapter, Editors: Muhammad Ikhwan Jambak and Razana Alwee, Penerbit UTM Press, pp. 57-80

Conferences:

2013:

- **Dewi Nasien**, Habibollah Haron, Aini Najwa Azmi, Siti Sophiayati Yuhanis. Feature Vector Based on Heuristic Randomized-Based Algorithm for Handwritten Character Recognition. The First International Conference on Soft Computing and Data Mining (SCDM-2014) (*Submitted*)
- Iis Afrianty, **Dewi Nasien**, Mohammed R.A. Kadir and Habibollah Haron. (2013). Backpropagation Neural Network for Sex Determination from Patella in Forensic Anthropology. Proceedings of International Conference on System Engineering and Computer Simulation, SECS'2013, 18-21 December, Danang, Vietnam (*Accepted*)
- Iis Afrianty, **Dewi Nasien**, Mohammed R. A. Kadir and Habibollah Haron. (2013). Determination of Gender From Pelvic Bones and Patella in Forensic Anthropology: A Comparison of Classification Techniques. Proceedings of International Conference on Artificial Intelligence, Modeling and Simulation, AIMS'2013, 3-5 December, Kota Kinabalu, Sabah, Malaysia (*Accepted*)
- Iis Afrianty, **Dewi Nasien**, Mohammed R. A. Kadir and Habibollah Haron. (2013). Gender Determination from Pelvic using Backpropagation Neural Network for Forensic Anthropology. Seminar Nasional Teknologi Informasi Komunikasi dan Industri (SNTIKI5), 2 October 2013, Pekanbaru, Indonesia, pp. 307-314

2011:

- **Dewi Nasien**, Habibollah Haron, Haswadi Hasan, Siti S. Yuhаниз. (2011). PSO Algorithms in Extracting Freeman Chain Code of Handwritten Isolated Character. Proceedings of International Symposium on Information Technology and e-Services, ICITeS'2011, 10-12 April, Tunisia. ISBN: 978-9938-9511-0-3, pp.102-107

2010:

- **Dewi Nasien**, Yuhаниз, S.S., Haron, H., "Statistical learning theory and support vector machines," in Proceedings of 2nd International Conference on Computer Research and Development, ICCRD 2010 , 2010, art. no. 5489503, pp. 760-764
- **Dewi Nasien**, Habibollah Haron and Siti S. Yuhаниз. (2010). Metaheuristics Methods (GA & ACO) For Minimizing the Length of Freeman Chain Code from Handwritten Isolated Characters, World Academy of Science Engineering and Technology, Vol. 62, February 2010, ISSN: 2070-3274, Article 41, pp. 230-235
- **Dewi Nasien**, Siti S. Yuhаниз and Habibollah Haron (2010). Support Vector Machine (SVM) for English Handwritten Character Recognition. Proceedings of the 2nd International Conference on Computer Engineering and Applications (ICCEA 2010) 19-21 March, Bali Island, Indonesia, pp. 249-252
- **Dewi Nasien**, Siti S. Yuhаниз and Habibollah Haron (2010). Handwritten Character Recognition Based on Freeman Chain Code and Randomized Algorithm. Proceedings of International IT & Society Conference (IISC 2010), 8-10 June, Sabah, Malaysia, ISBN: 978-983-41460-1, vol. 1, no.1, pp. 135-141
- **Dewi Nasien**, Habibollah Haron and Siti S. Yuhаниз (2010). Recognition of Handwritten Isolated English Character Using One Continuous Route of Freeman Chain Code

Representation and Feedforward Neural Network Classifier, World Academy of Science Engineering and Technology: International Conference on Computer, Electrical and Systems Science and Engineering (ICCESSE 2010), 14-16 July, Bali, Indonesia, pp. 667-673

2008:

- Muhammad Ikhwan Jambak, Habibollah Haron, **Dewi Nasien** (2008). Development of Robot Simulation Software for Five Joints Mitsubishi RV-2AJ Robot Using MATLAB/Simulink and V-Realm Builder. Fifth International Conference on Computer Graphics, Imaging and Visualization. 26-28 August 2008, Penang, Malaysia

Local UTM:

2011:

- **Dewi Nasien**, Habibollah Haron, and Siti S Yuhaniz (2009). The Study of Handwriting Character Recognition (HCR) and Support Vector Machine (SVM), Postgraduate Annual Research Seminar (PARS), UTM, Johor, Malaysia

2009:

- **Dewi Nasien**, Habibollah Haron, and Siti S Yuhaniz (2011). Feature Extraction and Classification Algorithm for Chain Code Representation of Handwritten Character Recognition, Soft Computing Research Group (SCRG), UTM, Johor, Malaysia

GRANTED RESEARCH FUNDS

Date	Title	Funder	Total grants
December 2012- December 2013 (Project Leader)	Feature Vector and Hybrid Classifier of Handwritten Character Recognition Development of Handwritten Recognition by Means of Chain Code	UTM Research University Grant (RUG).	RM 32,000
February 2013- January 2015 (Researcher)	Learning Assisted Based-Heuristic Algorithm for Soft-Constrained Multi-objective Metric Planning	MOHE Fundamental Research Grant Scheme (FRGS).	RM 69,000
July 2013- June 2015 (Researcher)	Robust Optimization of Adaptive Network-Based Fuzzy Inference Systems Based on a New Modified Genetic Algorithm	MOHE Fundamental Research Grant Scheme (FRGS).	RM 64,000
December 2013- December 2015 (Project Leader)	A New Harmony Search Meta-Heuristic for Freeman Chain Code Extraction Method	MOHE Fundamental Research Grant Scheme (FRGS).	RM 90,900
December 2013- December 2015	A New Cluster Spike Evolving Spiking Neural Network	MOHE Fundamental Research Grant	RM 95,000

(Researcher)		Scheme (FRGS).	
December 2013- December 2015 (Researcher)	Optimal Bidirectional Search in Autonomous System Path Planning	MOHE Fundamental Research Grant Scheme (FRGS).	RM 68,000

INTERNATIONALISATION

- Organizing Committee, The 5th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2013), Kuala Lumpur, Malaysia, 18 - 20 March, 2013
- Technical Program Committee, The 5th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2013), Kuala Lumpur, Malaysia, 18 - 20 March, 2013
- Technical Program Committee in Book Chapters - Computational Intelligence in Digital Forensic(CIDF), 2013
- Review Member of International Journal of Research in Engineering & Technology (IJRET)
- Technical Program Committee, International Conference on Computer Science and Service System (CSSS 2014), Bangkok, Thailand, 13 - 15 June, 2014.

REFERENCE

Prof. Dr. Habibollah Haron
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Faculty of Computing
Universiti Teknologi Malaysia
81310, UTM Skudai
Johor, Malaysia