



Florence Sia
Senior Lecturer
Faculty of Computing and Informatics
Universiti Malaysia Sabah
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EDUCATION BACKGROUND

Doctor of Philosophy (Computer Science) **2017 – 2020**
Universiti Malaysia Sabah

Research Area:
Data Mining and Machine Learning

Master of Science (Computer Science) **2010 – 2014**
University Malaysia Sabah

Research Area:
Data Mining and Relational Database

Bachelor of Computer Science (Software Engineering), First Class **2006 – 2009**
University Malaysia Pahang

Final Year Project:
Expert system for Agriculture

Sijil Pelajaran Malaysia, 2A1s, 5A2s, 2B4s **2003 - 2004**
SM. Stella Maris, Tanjung Aru

WORKING EXPERIENCE

Senior Lecturer DS51 **2020 - present**
Faculty of Computing and Informatics
Universiti Malaysia Sabah

Felo Siswazah DA41 **2015 - 2020**
Faculty of Computing and Informatics
Universiti Malaysia Sabah

- Conducted PhD research study on data mining area particularly in Mining Contrast Subspace.
- Published papers related to the research study.

Lecturer / Programme Leader

Department of Computing and Information Technology

2020

Tunku Abdul Rahman University College

- Prepared course file and teaching materials which include lecture notes, tutorial questions, and assignments.
- Prepared and reviewed examination question paper and marking scheme.
- Prepared Course Learning Outcome (CLO) attainment analysis report.
- Involved in the process of preparing documents for MQA audit.

Part Time ICT Trainer

2014 - 2019

AMC College Sabah

- Delivered training programmes in information and communication technology which are covering IT professional skills and user skills on desktop applications.

Part Time Software Programmer

2013

Datatechnet Sdn. Bhd.

- Analysed, designed, and developed a web-based system by following the user requirements.

Apprentice

2010 - 2011

UMS-MIMOS Centre of Domain Expertise Acceleration in ICT (CODE 8)

Center of Excellent in Semantic Agent, University Malaysia Sabah.

- Led a project team by assigning task to team members, tracking all project phases, and monitoring the progress to ensure that tasks are completed precisely in a timely manner.
- Analysed, designed, and developed a Thesaurus web based system by using Semantic Technology.

Software Programmer

2009 - 2010

Intsoft Solutions Sdn. Bhd.

- Analysed, designed, and developed software modules based on the user requirements.
- Performed black box testing.
- Prepared user manual for user.
- Diagnosed issue and performed bug fixes.

CURRICULAR ACTIVITIES

Member of UMS SKTM Newsletter Committee. Participated in writing and publishing quarterly newsletter for School of Engineering and Information Technology, University Malaysia Sabah.	2012
Participated in Sabah Got Idea program organized by SATA.	2011
Participated in Save Green for Future Design Competition organized by PERKASA at University Malaysia Pahang.	2009
Participated in PERKASA Open Bowling Competition at Kuantan Megalanes and jungle trekking at Hutan Simpan Jengka, Temerloh, Pahang.	2008
Participated in Adobe Photoshop & Macromedia Flash MX 2004 Course and volunteered as a facilitator of 2008 New Student Admission Week at University Malaysia Pahang.	2007
Attended National Service Program.	2005

COMPUTING SKILLS

Programming Languages	: R, Matlab, Visual Basic 6.0, C, Java, MySQL, PHP, HTML, CSS, JSP and Javascript.
Software Packages	: Matlab, Microsoft Office Word, Power Point, Excel & Access, WEKA, and IBM Rational Software Architect

LANGUAGE

- Able to read, speak, & write English and Malay well.
- Able to speak Mandarin well.

PUBLICATIONS

Sia, F., & Alfred, R. 2019. Tree-Based Mining Contrast Subspace. International Journal of Advances in Intelligent Informatics. 5(2), 169-178.

Sia, F., & Alfred, R. Tree-Based Method for Mining Contrast Subspace in Categorical Data. International Journal of Computational Intelligence Systems. 13 (1), 1714-1722.

Sia, F., & Alfred, R. 2020. Optimizing Parameters Values of Tree-Based Contrast Subspace Miner using Genetic Algorithm. In Computational Science and Technology. Springer, Singapore. pp. 677-687.

Sia, F., & Alfred, R. 2012. Evolutionary-based Feature Construction with Substitution for Data Summarization using DARA. Data Mining and Optimization (DMO), 2012 4th Conference, 53-58.

Sia, F., Alfred, R., Leau, Y.B., & Tan, S.F. 2012. A Variable Length Feature Construction Method for Data Summarization using DARA. Computing and Convergence Technology (ICCT), 2012 7th International Conference, 881-887.

Sia, F., Alfred, R., Leau, Y.B., & Tan, S.F. 2013. A Random Length Feature Construction Method for Learning Relational Data using DARA. International Journal of Information Processing and Management, 4(3), 103-113.

Sia, F., Alfred, R., & Chin, K.O. 2012. Learning Relational Data Based on Multiple Instances of Summarized Data Using DARA. Soft Computing Applications and Intelligent Systems. Second International Multi-Conference on Artificial Intelligence Technology, M-CAIT 2013, 293-301.

SCHOLARSHIP AND ACADEMIC HONOUR

- Anugerah Aspirasi Pascasiswazah 2020
- Kementerian Pengajian Tinggi (Skim Latihan Akademik Bumiputera) 2015 - 2018
- University Malaysia Pahang Fellowship Scholarship 2011 - 2013
- Public Service Department of Malaysia Scholarship 2007 - 2008
- Dean's Honour List 2006/2007/2008/2009

REFEREES

Assoc. Prof. Dr. Rayner Alfred
Postgraduate Supervisor
Faculty of Computing and Informatics,
University Malaysia Sabah.
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Dr. Samry @ Mohd Shamrie Sainin
Internal Examiner of PhD's Thesis
Faculty of Computing and Informatics,
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