

## Contact info

### Lecturer

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### Biodata

Nurfauza Binti Jali is a Lecturer at the Faculty of Computer Science and Information Technology, Universiti Malaysia Sarawak (UNIMAS). She has served for UNIMAS from 2001 as a Research Assistant, a Tutor then as the current post. She received her MSc in Science Computer (Real Time Software Engineering) from the Centre of Advanced Software Engineering (CASE), Universiti Teknologi Malaysia (UTM). Her research interest focuses in the area of Software Engineering specifically on Requirement Engineering, Software Design Pattern and Object Oriented Design. Aside from the software engineering discipline, her research interest also on preservation of ethnic minority languages in building of a multi-lingual corpora and the application of language technologies.

She is currently pursuing her doctorate in Requirement Engineering and Design by applying Natural Language Processing (NLP) into Requirement Specification to visualize the Software Design.

### Qualifications

PGDip (in Teaching & Learning), Universiti Malaysia Sarawak (2007).

MSc. Software Engineering (Real-time Software Engineering), Universiti Teknologi Malaysia (UTM). (2005).

BIT. Software Engineering (Hons), Universiti Malaysia Sarawak (2001).

### Current Research Activities

- **Sarawak Language Technologies (SaLT)** (Headed by Alvin Yeo, July 2006-Present). This initiative attempts to reserve Sarawak Ethnic Languages through the building of a multi-lingual corpora and the application of language technologies.
- **ICTs for Rural Development (ICT4RD)**: (2006-Present) (Headed by Professor Dr Khairuddin Ab Hamid) This top-down research project investigates the application of thin-clients and mini-hydro in the rural community, and studies the impact eBario has had on the community.
- Multimodal Integration of Sketch and Melanau Matu-Daro Speech in Spatial Queries (Headed by Dr Alvin Yeo, Sept 2007 Present).
- **Modelling System Behaviour Using Parsing Technique (2005-2008)** (Headed by Wee Bui Lin). This project sponsored by UNIMAS grant is to come out with a framework to map the program behaviour that reflects the actual program and present it in a more significant graphical presentation model. This project concentrates on reverse engineering for java source code into parsed graphical representation to facilitate the system modeling process.

- **Preserving Cultures by Mobilising Minority Languages (of Sarawak) Online: Building the Conceptual Framework.** (2005- 2008) (Headed by Alvin Yeo). The project explores the issues in the preservation of culture by engaging and mobilising a minority ethnic group to create and develop an online presence. The resultant framework which encapsulates this investigation could be used for mobilising other communities.
- **Linguistic and Cultural Differences in Information Categorization and Their Impact on Website Used.** (2005)  
Co-headed by Alvin Yeo and Anett Kralisch (Humbolt University, Berlin). The project investigates the linguistic and cultural differences in the retrieval and use of a medical website. Two groups were involved L1 (native speakers, British using English version and Germans using German version) and L2 (second language speakers, Malaysians using English version, and Russians, using German version). Findings suggest there are differences between the L1s and L2s.

### Recent Publications

- **Jali, N.,** Jupit, A.J.R., Jali, S. K. & Annuar, N. (2008). Open Source Content Management Systems (OS-CMSs) for Cyberspace Community. CybErg'08 – The Fifth International Cyberspace Conference on Ergonomics. 15 Sept – 15 Oct.
- H. Ujir, **N. Jali,** D.T.Y. Wen, S.H. Huspi, S.F.S. Fadzir, and S.C.H. Li. 2008. An Automated Oil Palm Literature Text Summarizer Framework. IASTED (605) Advances in Computer Science and Technology (Malaysia, April 2-4)
- Wee, B.L., Lau, S.P., and **Nurfauza, J.**2007. A Parsing Approach for System Behaviour Modeling. IADIS International Conference Applied Computing (Spain, Feb 18-20)
- Suhaila S., **Nurfauza J.,** and Yeo. A.W. UNIMAS Localisation Research Group (LRG): MOU with Localisation Research Centre (LRC), Ireland.(2006)
- Yeo, A.W., Lim, B., Cunliffe, D., **Jali, N.** and Norizan, W. Preserving Cultures by Mobilising Minority Languages (of Sarawak) Online: Building a Conceptual Framework. International Conference on Information & Communication Technology for the Muslim World (ICT4M). (Kuala Lumpur, 21-23 Nov. 2006)
- Kralisch, A., Yeo, A.W. and **Nurfauza, J.** 2006. Linguistic and Cultural Differences in Information Categorization and Their Impact on Website Used. Thirty-ninth Hawaii International Conference On System Sciences. (Hawai'i, January 4-7). IEEE Press.

### Consultancy Work

- Contract lecturer for Multimedia College Telekom teaching Diploma in Multimedia Technology students for Object Oriented System Development and Multimedia Programming using Java and Web Mastering courses. Furthermore, been appointed as an external examiner for student's Final Year Project.
- Evaluation of Universal Service Provision (USP) Project in few remote areas in Sarawak. Appointed by Malaysian Communications and Multimedia Commission. (2007): Co-researcher. To evaluate the effectiveness of the USP project in ICT literacy in the rural areas.
- The Centre of Excellence for Rural Informatics project involved in deploying the ICTs in the remote communities in Sarawak, Malaysia. The tasks involved in the setting-up of telentres from hardware to telecentres and giving training to the rural communities on IT usage.
- Knowledge World Modelling: Knowledge Readiness in Sarawak (KRIS). Appointed by Sarawak Development Institute (in collaboration with ICT Unit, Chief Minister's Dept.) (2005-2006): Project member from Sept 2006 until January 2007. Based on the KRIS design, the modelling would allow stakeholders to make decisions for planning and strategies towards a knowledge society for Sarawak. The end product of this project was a KRIS portal.

### Other Responsibilities

- Teaching – preparing lectures, tutorials, laboratory practical, marking
  - First Year Undergraduate Course: Introduction to Programming, Linear Algebra, IT Tools for Knowledge Workers;
  - Second Year: Statistics, Object Oriented Software Development, Software Engineering Lab, Visual Computing;
  - Third Year: Web Based System Development.
- Coordinator for Final Year Project I Semester 1 2007/2008
- Developed Faculty's Intranet website using Hyperwave system. (2002-2003)

- Leader of Website and Montage committee in the International Conference on Information Technology in Asia (CITA). Website CITA'05 and CITA'07 from scratch.
- Web Master for 5th International Conference of Cyberspace on Ergonomics (CybErg'08) using Joomla! Content Management System (CMS).
- Developed the Malaysian Postgraduate of Northern Ireland (MyPNI) society website and website for the UK-Malaysia-Ireland Science Engineering (UMIES) 2010 Conference <http://mypni.society.qub.ac.uk/umies>.