


Curriculum Vitae for XMUM Official Website

	Name	Chua Chong Chai
	Current Position	Lecturer
	Administrative Position (if applicable)	Head of Programme for Artificial Intelligence
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	Programme	Artificial Intelligence Programme
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BIOGRAPHY

Dr Chua is the Head of Programme for Artificial Intelligence under the School of Electrical Engineering and Artificial Intelligence at Xiamen University Malaysia. Dr Chua received his PhD from Multimedia University in 2018. He has 12 years of working experience in software industries and 6 years of research experience in academic institutions. During servicing for the software industries, Dr Chua main focuses were delivering Business Analytics, Security solutions, and software systems related to E-commerce such as Business to Business (B2B), Business to Consumer (B2C), and Consumer to Consumer (C2C). He started to participate in academic-related research in 2006, joining efforts together with researchers across Malaysia from different universities to deliver Natural Language Processing common tools specifically for the Malay Language under the National Language Technology Research Cluster. He is specialized in Natural Language Processing and Machine Translation. He wishes to share all the knowledge and experiences he has gained to prepare, inspire and nurture young talents who have the great potential to contribute to the development of the society and global human races.

RESEARCH INTERESTS

Machine Translation, Natural Language Processing, Text Mining, Data Science, Text Analytics, Information Extraction & Retrieval

EDUCATIONAL BACKGROUND

- PhD (Information Technology), Faculty of Computing and Informatics, Multimedia University, Malaysia (2018)
- MSc (Computer Science), School of Computer Sciences, Universiti Sains Malaysia (2000)
- BSc (Computer Science), School of Computer Sciences, Universiti Sains Malaysia (1999)

WORKING EXPERIENCE

- Lecturer, School of Electrical Engineering and Artificial Intelligence, Xiamen University Malaysia, Malaysia (2019 to present).
- IT Consultant & Data Scientist, Symbolic Computer Sdn Bhd, Pulau Pinang, Malaysia (2012 to 2019).

- Research Officer, Faculty of Computing and Informatics, Multimedia University, Malaysia (2009 to 2012).
- Research Officer, Computer Aided Machine Translation Unit, School of Computer Sciences, Universiti Sains Malaysia, Malaysia (2006 to 2009).
- Project Manager, Multimedia Prospect Sdn Bhd, Pulau Pinang, Malaysia (2000 to 2005).

RESEARCH EXPERIENCE / GRANTS

- Fundamental Research Grant Scheme (FRGS) Project (2011 to 2012) – Development of A Semantic Parser for Proper Names Using Empirical Methods and Dependency Parsing Methods.
- Brain Gain project (2010 to 2011) – Development of a Computer Aided Translation Tool (CATT) with Dictionary, Translation Memory and Machine Translation access using an integrated representation structure based on Synchronous Structured String-Tree Correspondence (S-SSTC).
- E-Science Project (2010) – Hybrid Semantic Search of Web Resources: Leveraging Multi-Level Semantic Annotations.
- E-Science Project (2009) – Text Mining for Competitive Intelligence: An Application to Country Risk Recovery.
- Research University Project (2007 to 2009) – A Services-Oriented Architecture (SOA) Knowledge Platform for Synergization of R&D Strengths in PPSKOMP (, School of Computer Sciences, Universiti Sains Malaysia).
- E-Science Fund Project (2008) – Multimodal Mobile Interpreter (Collaboration between Universiti Sains Malaysia and Universiti Kebangsaan Malaysia).
- E-Science Fund Project (2007) – Voice-Enabled Questions and Answering System.
- National Language Technology Research Cluster project (2006 to 2007) – Natural Language Processing common tools research and development.

REPRESENTATIVE PUBLICATIONS

- Chong Chai Chua, Tek Yong Lim, Lay-Ki Soon, Enya Kong Tang, Bali Ranaivo-Malançon (2018). Analogical-based Translation Hypothesis Derivation with Structural Semantics for English to Malay Example-based Machine Translation. *Advanced Science Letters*, Volume 24, Number 2, February 2018, pp. 1263-1267(5). <https://doi.org/10.1166/asl.2018.10729>
- Chong Chai Chua, Tek Yong Lim, Lay-Ki Soon, Enya Kong Tang, Bali Ranaivo-Malançon (2017). Meaning Preservation in Example-based Machine Translation with Structural Semantics. *Expert Systems with Applications*, Volume 78, pp. 242-258, 2017. <http://dx.doi.org/10.1016/j.eswa.2017.02.021>
- Chong Chai Chua, Cheah Yu-N, Enya Kong Tang (2010). A Services-Oriented Platform for Synergisation of Research and Development Strengths. *Proceedings of the 4th International Symposium on Information Technology (ITSIM'10)*. Kuala Lumpur, June 2010, pp. 1130-1137. <https://doi.org/10.1109/ITSIM.2010.5561506>