

CURRICULUM VITAE

Michael Chan

CONTACT INFORMATION	IF2.05 Centre for Intelligent Systems and their Applications School of Informatics, University of Edinburgh Informatics Forum Edinburgh EH8 9AB, Scotland	<i>Voice:</i> 0131 651 4156 <i>Fax:</i> 0131 650 6513 <i>E-mail:</i> mchan@inf.ed.ac.uk
RESEARCH INTERESTS	Ontology evolution, automated reasoning, information retrieval, algorithmic music	
EDUCATION	University of Edinburgh, Edinburgh, Scotland, United Kingdom <i>Centre for Intelligent Systems and their Applications</i>	
	Ph.D. in Informatics Thesis Title: Ontology Evolution in Physics Supervisor: Prof. Alan Bundy	Candidate
	University of New South Wales, Sydney, New South Wales, Australia	
	M.I.T. in Knowledge Systems and Data Mining (Distinction) B.E. in Computer Engineering (1st)	2005 2004
RESEARCH EXPERIENCE	University of Edinburgh , Edinburgh, Scotland, U.K. <i>Research Assistant</i> Duties include disseminating results from <i>OpenKnowledge</i> , an European Union project providing a novel form of peer-to-peer knowledge sharing in open environments (under the supervision of Dr. Dave Robertson). <i>Research Assistant</i> Duties include preparing a grant proposal, conducting research, and disseminating research findings on representation repair and ontology evolution (under the supervision of Prof. Alan Bundy).	March, 2008 - August, 2008 October, 2007 - March, 2008
	Hong Kong Polytechnic University , Hong Kong, China <i>Research Assistant</i> Duties included oversight of graduate student research, conducting research, and disseminating research findings (under the supervision of Prof. Stephen C.F. Chan). Projects included: <ul style="list-style-type: none">• <i>Collaborative crime analysis on multimedia data in a mobile environment</i> (Mar/07 - Aug/07): Designed a spatial and temporal data mining algorithm for hotspot analysis. Assisted the implementation of tools for crime analysis.• <i>Search engine optimisation by search scope reduction</i> (Jun/06 - Jul/07): Improved search engine efficiency by more than 50% by automatically omitting documents that are identified to be irrelevant to the search query from the search process.• <i>Discovery of related categories in web directories</i> (Dec/05 - Jun/06): Designed an algorithm for identifying semantically related categories in web directories, as well as a novel document classification technique for both online and offline document categorisations in web directories.	December, 2005 - August, 2007
	Australian Commonwealth Science and Industrial Research Organisation, ICT Centre , Adelaide, South Australia, Australia <i>Research Scholar</i> Duties included conducting research on document semantic analysis (under the supervision of Dr. Daniel McMichael).	December, 2004 - March, 2005
INDUSTRIAL EXPERIENCE	Compdata Technology Services Pty. Ltd. , Sydney, Australia <i>Part-time Programmer</i> Duties included designing and implementing <i>SupplyMaster</i> , a freight and distribution management system.	March, 2004 - November, 2004

SELECTED PUBLICATIONS	<p>M. Chan, J. Lehmann, and A. Bundy. Higher-Order Representation and Reasoning for Ontology Evolution. KEOD-10. To appear in Proceedings of KEOD-2010. 2010.</p> <p>M. Chan, J. Lehmann, and A. Bundy. A Contextual Approach to Detection of Conflicting Ontologies. ECAI-10 Workshop ARCOE-10 Notes, Lisbon, Portugal. 2010.</p> <p>M. Chan and A. Bundy. An Architecture of GALILEO: A System for Automated Ontology Evolution in Physics. IJCAI-09 Workshop ARCOE-09 Notes, Pasadena, U.S.A. 2009.</p> <p>M. Chan and A. Bundy. Inconstancy: An Ontology Repair Plan for Adding Hidden Variables. (PDF) In the Proceedings of 2008 AAAI Fall Symposium on Automated Scientific Discovery, Arlington, U.S.A. 2008.</p> <p>A. Bundy and M. Chan. Towards ontology evolution in physics. Submitted to the 15th Workshop on Logic, Language, Information and Computation, Edinburgh, Scotland, UK. 2008.</p> <p>M. Chan, S. Chan, and C. Leung. Online search scope reconstruction by connectivity inference. In Proceedings of the 2007 IEEE/WIC/ACM International Conference on Web Intelligence, Silicon Valley, CA. 2007. In press.</p> <p>M. Chan and J. Potter. Recognition of musically similar polyphonic music. In Proceedings of the 18th International Conference on Pattern Recognition, Hong Kong, China. 2006.</p> <p>S. Chan, T. Lai, E. Dang, M. Chan, and C. Leung. Increasing relevance of internet search results using a topic network. In Proceedings of International Association for Development of Information Society International Conference e-Society '06, Dublin, Ireland. 2006.</p> <p>M. Chan, J. Potter, and E. Schubert. Improving algorithmic music composition with machine learning. In Proceedings of the 9th International Conference of Music Perception and Cognition, Bologna, Italy. 2006.</p> <p>M. Chan and J. Potter. Corpus-driven computer music generation techniques. In Proceedings of the 2nd International Conference of Asia-Pacific Society for the Cognitive Science of Music, Seoul, South Korea. 2005.</p>
SERVICE & MEMBERSHIP	<ul style="list-style-type: none"> • Program Committee, Workshop on Matching and Meaning (2009, 2010) • Reviewer, Automated Software Engineering Journal (2009) • Reviewer, The Knowledge Engineering Review (2009) • Reviewer, International Conference on Computer Communication Engineering (2008) • Program Committee, International Conference on Artificial Intelligence and Pattern Recognition (2008) • Member, AAAI (2008 - present) • Member, IEEE & IEEE Computer Society (2007 - present)
HONORS & AWARDS	<ul style="list-style-type: none"> • Overseas Research Student Award (ORS), Committee of Vice-Chancellors and Principals (2008-2011) • Ph.D. Studentship, EPSRC (2008-2011) • Travel Scholarship, Australian Music and Psychology Society (2005) • Student Research Scholarship, Australian Commonwealth Science and Industrial Research Organisation. (2004) • Top Performance Award for 4th Year Students, UNSW School of Computer Science and Engineering (2004) • Travel Scholarship, Australian Undergraduate Students' Computing Conference (2004)
HOBBIES	<p>Travel; music (listening, playing, and composing); astronomy; tennis; table tennis; chess</p>