

# Dr Thomas Alan Tilley



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**Citizenship:** Australian  
**Drivers Licences:** Australian, Thai

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## Personal Qualities

I am highly motivated, hard working, and reliable. I have proven leadership experience in a workplace setting, and excellent research, communication and interpersonal skills.

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## Achievements & Qualifications

- Australian Postgraduate Award Scholarship, 1999
  - Griffith University Honours Scholarship, 1998
  - Awarded the Australian Computer Society Prize for Computer Science, 1997
  - Awarded the BankSA Prize for Computer Science, 1997
  - Awarded the Sir Kerr Grant Memorial Prize, 1996
  - Honorary Member of the S.A. Astronomical Society, 1996
  - Member of the Golden Key National Honour Society
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## Academic History

1. **PhD in Computer Science**, from the University of Queensland. Awarded 2004.
  2. **Graduate Diploma of Arts**, from the Bible College of Victoria, Completed 2005.
  3. **Bachelor of Information Technology with First Class Honours**, from Griffith University. Completed 1998.
  4. **Bachelor of Science in Mathematical & Computer Science**, from the University of Adelaide. Completed 1997.
  5. **Certificate in Digital Techniques**, from the Regency Institute of TAFE. Completed 1994.
  6. **Certificate in Radio Servicing**, from the Regency Institute of TAFE. Completed 1991.
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## Research

My research interests include Formal Concept Analysis, Formal Methods, Software Engineering, and Distributed Systems. My PhD thesis explored the application of Formal Concept Analysis to increase the usability of Formal Methods. My Honours research project implemented a platform-independent GUI framework which enabled remote internet access to a spatial database management system. The work explored distributed systems technologies including RMI and CORBA, and was implemented using Java, C++, JFC(Swing) and Qt.

## Publications

1. *The Asian Mule in Cyberspace: Building Game Controllers from Locally Appropriate Materials*, T. Tilley, Proceedings of Computer Games, Multimedia & Allied Technology (CGAT'09), pp.344-351, Research Publishing Services, 2009.
  2. *Citation Analysis using Formal Concept Analysis: A case study in Software Engineering*, T. Tilley and P. Eklund, ACKE'07, 18th International Conference on Database and Expert Systems Applications (DEXA 2007), pp.545-550, IEEE press, 2007.
  3. *A survey of Formal Concept Analysis support for Software Engineering Activities*, T. Tilley, R. Cole, P. Becker, and P. Eklund, Formal Concept Analysis: Foundations and Applications, LNCS. B. Ganter, G. Stumme and R. Wille (ed.s), LNAI3626, Springer-Verlag, 2005.
  4. *Formal Concept Analysis used for software analysis and modelling*, W. Hesse and T. Tilley, Formal Concept Analysis: Foundations and Applications, LNCS. B. Ganter, G. Stumme and R. Wille (ed.s), LNAI3626, Springer-Verlag, 2005.
  5. *Formal Concept Analysis applications to Requirements Engineering and Design*, T. Tilley, School of Information Technology and Electrical Engineering, University of Queensland, PhD Thesis, December 2004.
  6. *Conceptual Exploration of Software Structure: A Collection of Examples* R.Cole, T. Tilley, and J. Ducrou, Proceedings of the CLA 2005 International Workshop on Concept Lattices and their Applications, CEUR Workshop Proceedings, 2005.
  7. *Tool Support for FCA*, T. Tilley, Proceedings of the Second International Conference on Formal Concept Analysis, ICFCA 2004. P. Eklund (ed), pp. 104-111, Springer-Verlag, 2004.
  8. *Conceptual Analysis of Software Structure*, R. Cole and T. Tilley, Proceedings of 15th International Conference on Software Engineering and Knowledge Engineering, SEKE'03. pp. 726-733, Knowledge Systems Institute, July 2003.
  9. *A Software Modelling Exercise using FCA*, T. Tilley, W. Hesse, and R. Duke, Using Conceptual Structures: Contributions to ICCS 2003. B. Ganter and A. de Moor (ed.s), pp. 213-226, Shaker Verlag, 2003.
  10. *Towards an FCA based tool for Visualising Formal Specifications*, T. Tilley, Using Conceptual Structures: Contributions to ICCS 2003. B. Ganter and A. de Moor (ed.s), pp. 227-240, Shaker Verlag, 2003.
  11. *Web-based Collaborative Multi-criteria Decision Making*, P. Deer, F. Modave and T. Tilley, Proceedings of IConIT'2001, pp. 203-212, Thammasat University Press, Thailand, 2001.
  12. *Swing Based remote GUI Emulation*, T. Tilley and P. Eklund, Proceedings of Evolve 2000, DSTC Pty Ltd, Brisbane, 2000.
  13. *GUI Framework Communication via the WWW*, T. Tilley and P. Eklund, World Wide Web: Technologies and Applications for the New Millennium, (ed) G.H. Young, pp. 297-302, Georgia: Computer Science Research, Education, and Applications Press, January 2000.
  14. *Evaluating Distributed Graphical User Interface Communication*, T. Tilley, S. Pollitt and P. Eklund, Proceedings of AusWeb99, the Fifth Australian World Wide Web Conference, Southern Cross University Press, Lismore, 1999.
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## Employment History

- Jan. 2008 - Present** - **Instructor at Payap University**
- Lecturing in undergraduate Computer Information Systems subjects including: Discrete Mathematics, Distributed Systems, Multimedia Systems, Computer Graphics, Game Controller Hacking, and Software Engineering.
- Mar. 2000 - Nov. 2003** - **Sessional Lecturer at Griffith University**
- Lecturer & Tutor:
- INT7006 - Database Design (Coursework Masters)
  - 2005INT - Database Design (Undergraduate)
  - 1002INT - Introduction to Programming 1 (Undergraduate)
- Tutor:
- 7017INT - Internet Programming 1 (Coursework Masters)
  - 7018INT - Internet Programming 2 (Coursework Masters)
  - INT1004 - Information Systems (Undergraduate)

- May 2000 – Nov. 2000**      **Research Scientist at the Co-operative Research Centre for Distributed Systems Technology (DSTC)**
- Research and software development for the "Multi-Criteria Decision Making" project.
- Sep. 2000**      **Contract Programmer for Zing Technologies**
- ZingThing software development in Java for the Psion netBook, a handheld computer running Symbian's EPOC operating system.
- Jan. 1999 - May 1999**      **Software Graduate with Boeing Australia Limited**
- Java software development and hardware integration for the WebGrouputer/ZingThing groupware product.
- Nov. 1992 - Jan. 1995**      **Service Manager with Mitsubishi Electric Australia Pty Ltd**  
In addition to the tasks described below:
- Managing a service department and supervising a team of technicians.
  - Workload scheduling for technicians.
  - Setting/assessing productivity and time management goals.
  - Processing payments and database maintenance.
- Apr. 1992- Nov. 1992**      **Customer Relations Co-ordinator with Mitsubishi Electric Australia Pty Ltd**  
In addition to the tasks described below:
- Responsibility for handling difficult customers and resolving complaints.
  - Service database report generation and data entry.
- Sep. 1988 - Apr. 1992**      **Facsimile & Cellular Mobile Phone Technician with Mitsubishi Electric Australia Pty Ltd**  
In addition to the tasks described below:
- Service and repair of facsimile machines and (AMPS) cellular mobile phones.
  - Technical support and training for customers, sales staff and other technicians.
- Mar. 1987 - Aug. 1988**      **Facsimile Technician with ABE Telecommunications (Fax) Pty Ltd**
- Service and repair of facsimile machines.
  - Technical support and training for customers, sales staff and other technicians.
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## Community & Leisure Interests

I enjoy spending time with my children, listening to music, playing guitar, building things from PVC water pipe, video/arcade games and science-fiction. My family and I attend the Chiang Mai Christian Fellowship (CCF) Church.

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## Referees

- Academic/ Work**      **Prof. Peter Eklund**  
School of Information Technology and Computer Science  
*The University of Wollongong*  
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Wollongong NSW 2522  
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- Personal**      **Pastor Bruce Murray**  
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