

**Curriculum Vitae**

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1. **Full Name** : Rosziati Ibrahim
  2. **Date of Birth** : 21-06-1966
  3. **Nationality** : Malaysian
  4. **Home Address** : 20, Jalan Siswa Jaya 2, Taman Siswa Jaya, Parit Raja, Batu Pahat, 86400, Johor.
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5. **CONTACT ADDRESS**

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**Office: Faculty of Information Technology and Multimedia, Universiti Tun Hussein Onn Malaysia (UTHM), Parit Raja, Batu Pahat, 86400, Johor.**

**Home:** 20, Jalan Siswa Jaya 2, Taman Siswa Jaya, Parit Raja, Batu Pahat, 86400, Johor.

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6. **QUALIFICATIONS**

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Bachelor of Science  
(Major Computer Science, Minor Applied Mathematics)  
Adelaide University, Adelaide, Australia  
December 1988

Bachelor of Science (Hons)  
(Major Applied Mathematics, Minor Computer Science)  
Adelaide University, Adelaide, Australia  
December 1989

Master of Science  
(Major Applied Mathematics, Minor Computer Science)  
Adelaide University, Adelaide, Australia  
December 1991

PhD  
Information Technology – Software Specification  
Queensland University of Technology (QUT)  
Brisbane, Australia.  
March 2000

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## 7. POSITION

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Dean  
Faculty of Information Technology & Multimedia  
Universiti Tun Hussein Onn Malaysia (UTHM)  
(Nov 2009 until June 2011)

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## 8. MANAGEMENT EXPERIENCE

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1. Deputy Director (Research)  
Research Management & Innovation Centre (RMIC)  
Universiti Tun Hussein Onn Malaysia (UTHM)  
(May 2006 until July 2008)
2. Head of Software Engineering Department  
Faculty of Computer Science & Information Technology  
(FCSIT),  
Universiti Malaysia Sarawak (UNIMAS), Kuching, Sarawak.  
(November 2004 until September 2005)
3. Deputy Dean (Academic)  
Faculty of Computer Science & Information Technology  
(FCSIT),  
Universiti Malaysia Sarawak (UNIMAS), Kuching, Sarawak.  
(March 2000 until February 2004)

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## 9. PROFESSIONAL ACTIVITIES / REGOGNITION

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1. Reviewer of ACM Computing Reviews ([www.reviews.com](http://www.reviews.com))
  - Reviewing conference papers, journals and books for ACM
2. Co-Deputy Editor, International Journal of Software Engineering and Computing (IJSEC)
  - Reviewing and selecting papers for IJSEC
3. Auditor for MQA (Malaysian Qualification Audit)
  - Auditing Software Engineering Programme for IPTA/IPTS

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10. **TEACHING EXPERIENCE**

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i. **Topics taught**

Semester	Subjects/IPTA	Level	Credit Hours Per Week	No. of Students
Sem 1 10/11	BIT1013 Software Engineering (UTHM)	Degree	3	64 (G1)
Sem 2 09/10	BIT2063 Object-Oriented Programming (UTHM)	Degree	3	64 (G1)
Sem 1 09/10	BIT3343 Project Research Methodology (UTHM)	Degree	3	150 (G1,G2)
	MIT6343 Research Methodology (UTHM)	Master/PhD	3	7
Sem 2 08/09	BIT1033 Computer Programming (UTHM)	Degree	3	13
	BIT3143 Requirements Analysis & Software Specification (UTHM)	Degree	3	22
	MIT6343 Research Methodology (UTHM)	Master/PhD	3	2
Sem 1 08/09	BIT3343 Project Research Methodology (UTHM)	Degree	3	98 (G1, G2)

Sem 2 07/08	BIT3143 Requirements Analysis & Software Specification (UTHM)	Degree	3	26
Sem 1 07/08	BIT3343 Project Research Methodology (UTHM)	Degree	3	83 (G1, G2)
Sem 2 06/07	BIT3143 Requirements Analysis & Software Specification (UTHM)	Degree	3	26
Sem 1 06/07	BIT 2133 System Analysis & Design (UTHM)	Degree	3	98 (G1, G2)
Sem 2 05/06	BIT2063 Object-Oriented Programming (UTHM)	Degree	3	98 (G1, G2)
Sem 1 05/06	TMC1413 Introduction to Programming (UNIMAS)	Degree	3	150
Sem 2 04/05	TME2033 Object-Oriented Software Development (UNIMAS)	Degree	3	75
	TMS2123 Numerical Method (UNIMAS)	Degree	3	20
Sem 1 04/05	TMC1813 Discrete Mathematics (UNIMAS)	Degree	3	150
Sem 2 03/04	TME2033 Object-Oriented Software Development (UNIMAS)	Degree	3	75

Sem 1 03/04	TME2013 Software Engineering and Application Development (UNIMAS)	Degree	3	75
Sem 2 02/03	TME2033 Object-Oriented Software Development (UNIMAS)	Degree	3	60
Sem 1 02/03	TME3013 Domain & Requirements Analysis (UNIMAS)	Degree	3	30
Sem 2 01/02	TMT2033 Interactive Computer Graphics (UNIMAS)	Degree		100
Sem 1 01/02	TMT3033 Advanced Topics in Computer Graphics (UNIMAS)	Degree	3	50
	TME3013 Domain & Requirements Analysis (UNIMAS)	Degree	3	20
Sem 2 00/01	TMT2033 Interactive Computer Graphics (UNIMAS)	Degree	3	65
Sem 1 00/01	TME 2013 Software Engineering & Applications Development (UNIMAS)	Degree	3	45

	TMA 3613 Computer Graphics (UNIMAS)	Degree	3	65
Sem 2 99/00	TMA2133 Domain & Requirements Analysis (UNIMAS)	Degree	3	20
	TMP1902 Multimedia Technology (UNIMAS)	Degree	2	100

## ii. Supervisor & Co-supervisor for MSc and PhD

### Graduated:

*(postgraduate - by research at Faculty of Computer Science and Information Technology (FCSIT), UNIMAS, 1999 - 2005)*

1. Degree: MSc in IT (master by research)  
Title: Developing the Architecture for the Production of a Generic Model for the Local Manufacturing Industries  
Student: Chew Ling King, UNIMAS  
Status: Graduated (Role: Principal Supervisor)

### On-Going:

*(postgraduate - by research at Faculty of Information Technology & Multimedia (FTMM), UTHM, 2005 – till now)*

1. Degree: Master of Information Technology (MIT)  
Title: Test Cases Generation Based on Use Cases Diagram and Test Scenario (master by research, UTHM)  
Student: Noraida Ismail, (July 2007 – Dec 2009)  
Status: On-Going (Role: Principal Supervisor) (thesis write-up)
2. Degree: Master of Information Technology (MIT)  
Title: Agent-Based Algorithm for Building Distributed Web-Based Decision Support System (DSS)  
Student: Idawati Amin, (Dec 2007 - Nov 2009)  
Status: On-Going (Role: Principal Supervisor) (thesis write-up)
3. Degree: Master of Information Technology (MIT)

- Title: An Algorithm for Measurement of Human's Fatigue Level Using 2 Factors (Eyelid Blinking and Yawning)  
 Student: Helmy Adly Bin Mohd Noor, (Dec 2007 - Nov 2009)  
 Status: On-Going (Role: Principal Supervisor) (waiting for viva)
4. Degree: Master of Information Technology (MIT)  
 Title: Hide Data in Images using Watermarking Algorithm  
 Student: Abdullah Omar Abdullah Bamatraf, (July 2009- June 2011)  
 Status: On-Going (Role: Principal Supervisor)
  5. Degree: PhD in IT  
 Title: A Tool for Checking Conformance of UML Specification  
 Student: Noraini Ibrahim (Dec 2008 till Nov 2011)  
 Status: On-Going (Role: Principal Supervisor)
  6. Degree: PhD in IT  
 Title: A Sound Recognition System for Traditional Malay Musical Instruments  
 Student: Norhalina Senan (July 2009 till June 2012)  
 Status: On-Going (Role: Principal Supervisor)
  7. Degree: PhD in IT  
 Title: Data Sanitization for Relational Database System  
 Student: Mohd Zainuri Saringat (July 2009 till June 2012)  
 Status: On-Going (Role: Principal Supervisor)
  8. Degree: PhD in IT  
 Title: Enhancing the Quantity of Data Hidden in Image using Transformation Algorithm  
 Student: Adel Abd Ulhure A. Shana, (July 2010 - June 2012)  
 Status: On-Going (Role: Principal Supervisor)

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## 11. RESEARCH ACTIVITIES

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- i. **Research Completed (*Name & Amount of Grant*)**
  - I. Conformance of UML Specification  
**Project Leader of UTHM Fundamental Grant (RM10,000; 2009)**
  - II. Development of Algorithm for Measurement of Driver's Fatigue Level Using 3 Factors (eyelid blinking, yawning and red eye effect)  
**Project Leader of Fundamental Research Grant Scheme (FRGS) (RM12,000; 2007)**
  - III. An Adaptive Testing Tool for Generating Test Cases from UML Specification

- Project Leader of Short Term KUiTTHO Grant (RM14,000; 2006)**
- IV. Validation of Requirements from Software Specification**  
**Project Leader of Short Term UNIMAS Grant (RM20,000; 2004)**
- V. Domain Models and Software Development: The Manufacturing Industry Information and Command Infrastructure (MIICI)  
**Project Leader of IRPA Grant (RM525,000; 2000 till June 2003)**
- VI. The Perception in Information Technology of Small and Medium Sized Companies in Malaysia: A Survey  
**Project Leader of Short Term UNIMAS Grant (RM14,612; 2000)**
- VII. Automated-Course Timetabling Project for UNIMAS  
**Project Leader of Short Term UNIMAS Grant (RM16,100; 2001)**
- VIII. Towards a Development of An On-line TITAS 1 Courseware  
**Member of Short Term UNIMAS Grant (RM10,669; 1999)**
- IX. Developing a Programme Plan for a University-Industry Partnership Program  
**Project Leader of Short Term UNIMAS Grant (RM15,536; 1995)**
- ii. **On Going (Name & Amount of Grant)**
- I. Finding New Steganography Algorithm to Hide Data in Image  
**Project Leader of FRGS (RM48,000; 1 Mac 2010 – 28 Feb 2012)**
- II. Development of a Tool for Checking Conformance of UML Specification  
**Project Leader of Science Fund (RM51,700; 1 Nov 2008 – 31 Oct 2010)**

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## 12. PUBLICATIONS

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### i. Journals/Transactions/Lecture Notes/Chapter of a Book

1. Rosziati Ibrahim, *From UML Specification into Implementation using Object Mapping*. Journal of Computer & Information Science (JCIS), Vol 3, No. 3, August 2010, (ISSN 1913-8989). (accepted, to appear).
2. Helmy Adly B Mohd Noor, Rosziati Ibrahim (2010). *Fatigue Detector using Eyelid Blinking and Mouth Yawning*, International Conference on Computer Vision and Graphics (ICCVG2010), Warsaw, Poland, September 2010. In *Computer Vision and Graphics: Proc. ICCVG 2010*, L. Bolc, R. Tadeusiewicz, L.J. Chmielewski, Eds. Lecture Notes in Computer Science (LNCS), Springer, 2010. (paper accepted, to appear in LNCS)



3. Mohd. Zainuri Saringat, Rosziati Ibrahim, Noraini Ibrahim, Tutut Herawan, *On Database Normalization using User Interface Normal Form*, International Conference on Intelligent Computing 2010 (ICIC2010), Changsha, China, August 2010. Paper will be published in Lecture Notes in Computer Science (LNCS), Springer. (paper accepted, to appear in LNCS)
4. Norhalina Senan, Rosziati Ibrahim, Tutut Herawan, Musa Mohd Mokji, Nazri Mohd Nawi, *The Ideal Data Representation for Feature Extraction of Traditional Malay Musical Instrument Sounds Classification*, International Conference on Intelligent Computing 2010 (ICIC2010), Changsha, China, August 2010. Paper will be published in Lecture Notes in Computer Science (LNCS), Springer. (paper accepted, to appear in LNCS)
5. Mohd Zainuri Saringat, Tutut Herawan, Rosziati Ibrahim, *A Proposal for Constructing Relational Database from Class Diagram*. Journal of Computer & Information Science (JCIS), Vol 3, No. 2, May 2010, pp 38 – 46 (ISSN 1913-8989).
6. Rosziati Ibrahim, Tan Siek Leng, *ReSeT: Reverse Engineering System Requirements Tool*, a chapter of a book entitled “Recent Advances in Technologies” edited by Maurizio A. Strangio, ISBN 978-953-307-017-9.
7. Rosziati Ibrahim, Noraini Ibrahim, Noraida Ismail, *Data Mining: An Automatic Tool for Retrieval of Data from System’s Requirements*. WIT Transactions on Information and Communication Technologies, Data Mining VIII – Data, Text and Web Mining and Their Business Applications, 193-205. June 2007.
8. Rosziati Ibrahim and Jacey-Lynn Minoi *Usage of Information Technologies in Malaysian Businesses*, Journal of Information Technology Impact (JITI), Vol 5, No 1, pp. 5-14, 2005.
9. Ibrahim, R. 1998. Formal Methods for Component-Based Systems. In *Workshop on Object-Oriented Technology* (July 20 - 24, 1998). S. Demeyer and J. Bosch, Eds. Lecture Notes In Computer Science, Vol. 1543. Springer-Verlag, London, ISBN 3-540-65460-7.
10. Ibrahim, R. and Szyperski, C. A. 1998. Formalization of Component Object Model (COM) - The COMEL Language. In *Workshop on Object-Oriented Technology* (July 20 - 24, 1998). S. Demeyer and J. Bosch, Eds. Lecture Notes In Computer Science, Vol. 1543. Springer-Verlag, London, ISBN 3-540-65460-7.

## ii. Books

1. Khalid Isa, Rosziati Ibrahim, Yusni Musa. *Penerbitan Multimedia dan Pembangunan Laman Web, Siri 1 - Elemen-elemen Multimedia*. Buku Sokongan Pendidikan Penerbitan Multimedia Kreatif, Dewan Bahasa dan Pustaka (DBP), Malaysia, 2009. ISBN 978-983-62-9961-1.
2. Khalid Isa, Rosziati Ibrahim, Yusni Musa. *Penerbitan Multimedia dan Pembangunan Laman Web, Siri 2 - Pembangunan Multimedia*. Buku Sokongan Pendidikan Penerbitan Multimedia Kreatif, Dewan Bahasa dan Pustaka (DBP), Malaysia, 2009. ISBN 978-983-62-9962-8.
3. Khalid Isa, Rosziati Ibrahim, Yusni Musa. *Penerbitan Multimedia dan Pembangunan Laman Web, Siri 3 – Pengenalan Internet dan Pembangunan Laman Web*. Buku Sokongan Pendidikan Penerbitan Multimedia Kreatif, Dewan Bahasa dan Pustaka (DBP), Malaysia, 2009. ISBN 978-983-62-9963-5.
4. Rosziati Ibrahim, *An Introduction to Object-Oriented Programming with UML using Borland C++*, UTHM Publication, 2008. ISBN 983-2963-77-6.
5. Rosziati Ibrahim and Sapiee Jamel. *Object-Oriented Programming Using C++ - AN INTRODUCTION*, McGraw Hill (Malaysia), 2005. ISBN 983-3219-34-9.

## iii. Proceedings and Conferences (International):

1. Rosziati Ibrahim, Teoh Suk Kuan, *Steganography Imaging System (SIS): Hiding Secret Message inside an Image*, International Conference on Computer Science and Application (ICCSA'10), San Francisco, USA, October 2010. (paper submitted)
2. Norhalina Senan, Rosziati Ibrahim, Nazri Mohd Nawi, Musa Mohd Mokji, *Feature Extraction for Traditional Malay Musical Instruments Classification System*, Socpar 2009, pp. 454-459, 2009 IEEE International Conference of Soft Computing and Pattern Recognition , 2009.
3. Norhalina Senan, Rosziati Ibrahim, Nazri Mohd Nawi, *A Study on Traditional Malay Musical Instruments Sounds Classification System*, 11th ACM International Conference on Information Integration and Web-Based Application & Services (IIWAS), 2009.

4. Rosziati Ibrahim, Tan She Pie, *Automatic Test Path Generation Based on UML Activity Diagram*. IEEE 5<sup>th</sup> International Conference on Computer, Telecommunication and System (ICTS 2009), Surabaya, Indonesia, August 2009.
5. Noraini Ibrahim, Rosziati Ibrahim, Dzahar Mansor, *Formalization of Well-Formness Rules for UML Use-Case Diagram*. IEEE 5<sup>th</sup> International Conference on Computer, Telecommunication and System (ICTS 2009), Surabaya, Indonesia, August 2009.
6. Noraini Ibrahim, Rosziati Ibrahim, Dzahar Mansor, *Well-Formness Rules for UML Use-Case Diagram*. International Industrial Informatics Seminar (IIS 2009), Yogyakarta, Indonesia, August 2009.
7. Helmy Adly B Mohd Noor, Rosziati Ibrahim, *Image Processing using Eyelid Blinking and Mouth Yawning to Measure Human's Fatigue Level, 3<sup>rd</sup> Asia International Conference on Modeling and Simulation 2009 (AMS 09)*, Bandung, Indonesia, May 2009.
8. Rosziati Ibrahim, Noraini Ibrahim, *A Tool for Checking Conformance of UML Specification*, International Conference on Computer, Electrical and System Engineering (CESSE 2009), Hong Kong, China, March 2009.
9. Rosziati Ibrahim, Tiu Kian Yong, *ReSeT: Reverse Engineering System Requirements Tool*, 5<sup>th</sup> International Conference on Software Engineering (ICSE2008), Singapore, August, 2008.
10. Helmy Adly B Mohd Noor, Rosziati Ibrahim. *A Framework for Measurement of Human Fatigue Level Using 2 Factors (Eyelid Blinking and Mouth Yawning)* International Conference on Computer and Communication Engineering (ICCCE 08), Kuala Lumpur, Malaysia, May 2008.
11. Rosziati Ibrahim, Mohd Zainuri Saringat, Noraini Ibrahim, Noraida Ismail, *An Automatic Tool for Generating Test Cases from the System's Requirements*. IEEE 7<sup>th</sup> International Conference on Computer and information Technology (CIT2007), Aizu University, Jepun, October 2007.
12. Rosziati Ibrahim, Tiu Kian Yong, *Back to Basic: Generating Test Cases from Source Codes*. IASTED Asia Conference on Modeling and Simulation (AsiaMS 2007), Beijing, China, October 2007.
13. Dayang NurFatimah A.I, Rosziati Ibrahim, Jacey-Lynn Minoi, Sylvester Arnab, and Tengku Azizah Tengku Ishak, *Virtual Environments for Tourism in Kuching City*, Proceedings of the 7<sup>th</sup> International Conference

on Work with Computing Systems 2004 (WWCS2004), 29 Jun – 3 July 2004.

14. Rosziati Ibrahim, Jacey-Lynn Minoi, *A Survey on IT Adoption Model for SMIs in Malaysia*, Proceedings of the Knowledge Management International Conference and Exhibition (KMICE'04), February 13- 15, 2004, Universiti Utara Malaysia, Kedah, Malaysia.
15. Rosziati Ibrahim, Marlene Lu, *Formal Methods applied to Plywood Production*, Proceedings of the 3<sup>rd</sup> International Conference on Quality Software (QSIC03), IEEE Computer Society, November 6 - 7, 2003, Dallas, Texas, USA, pp. 298-305.
16. Rosziati Ibrahim, Marlene Lu, *From Formal Mathematical Design to Implementation: A Case Study of Plywood Production*, Proceedings of the 7<sup>th</sup> Southeast Asian Ergonomics Society & 4<sup>th</sup> Malaysian Ergonomic Conference (SEAMEC 2003) May 19-22, Kuching, Sarawak, Malaysia.
17. Rosziati Ibrahim, Jacey-Lynn Minoi, *The Usage of Information Technology in Small and Medium Sized Industries in Malaysia: A Survey*, Proceedings of the 2<sup>nd</sup> Cognitive Science Conference (CSC2002), October 2002, Hilton Hotel, Kuching, Sarawak.
18. Rosziati Ibrahim, Zainal Abidin Bachek, *Automated Timetabling System in Higher Education: UNIMAS Experience*, Proceedings of the International Conference on Higher Education for the 21<sup>st</sup> Century (HE21), September 2002, Miri, Sarawak, Malaysia.
19. Faaizah Shahbodin, Rosziati Ibrahim, *Web-base Islamic Courseware: Rules that Work*, International Conference on Information Systems and Islam (ISI2001), Kuala Lumpur, November 2001, Malaysia.
20. Rosziati Ibrahim (Editor), *Proceedings of the 2<sup>nd</sup> International Conference on Information Technology in Asia (CITA'01)*, October 2001, Kuching, Sarawak, Malaysia, 503 pages.
21. Rosziati Ibrahim, Awangku Azahari Mohd Dain, Nor Shafiza Shaari, Yvonne Sinding Gom, and Zainal Abidin Bachek, *Towards Automating the Timetabling System for UNIMAS*, The 2<sup>nd</sup> International Conference on Information Technology in Asia (CITA'01), October 2001, Kuching, Sarawak, Malaysia.
22. Rosziati Ibrahim, *Is there a Relationship between IT Usage in Workplace with IT Curriculum in Higher Education? – A Survey in Malaysia Organizations*, The 2<sup>nd</sup> International Conference on Information

Technology in Asia (CITA'01), October 2001, Kuching, Sarawak, Malaysia.

23. Rosziati Ibrahim, Marlene Lu, *Domain Model and Software Development: The Case Study of Plywood Production*, Proceedings of the 5<sup>th</sup> World Multi-Conference on Systemics, Cybernetics and Informatics (SCI 2001), 22<sup>nd</sup> - 25<sup>th</sup> July 2001, Orlando, Florida, USA. Editors :N. Callaos, I. N. Silva, and J. Molero, Eds. IIS, 416-421.
24. Rosziati Ibrahim, *Formal Methods applied to Component-Based Systems*, Ph.D. Thesis, Queensland University of Technology (QUT), Brisbane, Australia, March 2000.
25. Rosziati Ibrahim, Inson Din, *A Survey on the Needs of Organisations in Malaysia in Relationship with Higher Education*, Proceedings of the 10<sup>th</sup> Asian Workshop on IT Impact on Home, School and Work Settings, November 1999, Universiti Kebangsaan Malaysia (UKM), Malaysia.
26. Rosziati Ibrahim, *Component-Based Systems: A Formal Approach*, National Workshop on Component Object and Software Engineering (COSE'98), 13<sup>th</sup> November 1998, Adelaide, Australia.
27. Rosziati Ibrahim, Clemens Szyperski, *Can Component Object Model (COM) be Formalized - The Formal Semantics of the COMEL Language*, International Refinement Workshop & Formal Methods Pacific '98 (IRW/FMP'98), 29<sup>th</sup> September – 2<sup>nd</sup> October 1998, Canberra, Australia.
28. Rosziati Ibrahim, Clemens Szyperski, *Formalization of Component Object Model (COM) - The COMEL Language*, PhD Workshop in European Conference on Object-Oriented Programming (ECOOP'98), 20<sup>th</sup> – 24<sup>th</sup> July, 1998, Brussels, Belgium.
29. Rosziati Ibrahim, Clemens Szyperski, *The COMEL Language*, Tech. Rep. No. FIT-TR-97-06, Faculty of Information Technology, Queensland University of Technology, Brisbane, Australia, 1997.