

## Curriculum Vitae of Ajith Abraham P.hD.

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### CONTACT INFORMATION

**Work address:**

Centre for Quantifiable Quality of Service in Communication Systems,  
Centre of Excellence, Norwegian University of Science and Technology,  
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Telephone: +47-73592706 ajith.abraham@ieee.org, abraham.ajith@acm.org  
WWW: <http://www.softcomputing.net>

### EDUCATION

- Monash University, Melbourne, Australia  
Ph.D. in Computer Science, (2001)  
Thesis topic: *Hybrid Soft Computing: Architecture Optimization and Applications*
- Nanyang Technological University, Singapore  
Master of Science in Control and Automation (1998)  
Thesis topic: *Reliability Modeling and Optimization of Electronic Systems*
- University of Calicut, Kerala, India 673 635  
Bachelor of Technology in Electrical and Electronic Engineering (1990)  
Grade of Passing: First class (Honors). *First rank in the class of 50 students.*

### PROFESSIONAL EXPERIENCE SUMMARY

**Academic:** 10 years

**Industrial experience:** 7.5 years in three different assignments

### ACADEMIC TEACHING AND RESEARCH

*January 2007 -*

**Research Professor,**

Centre for Quantifiable Quality of Service in Communication Systems,  
*Norwegian Centre of Excellence*, Norwegian University of Science and Technology,  
O.S. Bragstads plass 2E, N-7491, Trondheim, Norway

*August 2004 - December 2006*

**Institute of Information Technology Advancement Program**

**Distinguished Visiting Professor,**

School of Computer Science and Engineering, Chung-Ang University, Seoul, Korea  
School of Computer Science, Yonsei University, Seoul, South Korea

*August 2002 - July 2004*

**Assistant Professor,**

Department of Computer Science, Oklahoma State University, USA

*February 2002 - July 2002*

**Research Fellow,**

Faculty of Information Technology, Monash University (Clayton Campus), Australia

*March 1999 - January 2002*

**Lecturer,**

Faculty of Information Technology, Monash University, Australia

### HONORARY APPOINTMENTS

*May 2005 - April 2006*

**Adjunct Professor,**

Rovira i Virgili University, Spain

*January 2005 -*

**Adjunct Professor,**

Department of Computer Science and Engineering, Jinan University, China

*January 2005 -*

**Adjunct Professor,**

Department of Computer Science and Engineering, Dalian Maritime University, China

#### INDUSTRIAL EXPERIENCE

##### **Research and Development**

*January 1996 - February 1999*

**Project Engineer,**

Keppel Engineering Ltd., 19, Kian Teck Road, Singapore 628772.

<http://www.keppelcorporation.com>

*April 1993 - October 1995*

**Design Engineer,**

Hyundai Engineering Ltd., Seoul, Korea.

<http://www.hyundai.com>

*March 1991 - February 1993*

**Engineer (Projects),**

Ashok Leyland Ltd., Madras, India 600 057.

<http://www.ashokleyland.com>

#### RESEARCH GRANTS AWARDED AS PRINCIPAL INVESTIGATOR

**Funding agency:** Generalitat de Catalunya, Spain

**Topic:** Evolving Artificial Intelligence Paradigms on Computational Grid for Knowledge Mining

**Principal Investigator:** Ajith Abraham

**Funding period:** January - December 2008.

**Funding agency:** Ministry of Education, Spain

**Topic:** Evolutionary Neural Network Optimization

**Principal Investigator:** Ajith Abraham

**Funding period:** 2005-2006.

**Funding agency:** Presidential Challenge Grant, Oklahoma State University

**Topic:** Web Based Distributed Data Mining Using Hybrid Intelligent Systems

**Principal Investigator:** Ajith Abraham

**Co-Investigators:** D. Delen (OSU), M. Paprzycki (OSU) and J. Thomas (OSU)

**Funding period:** 2003 - 2005.

**Funding agency:** Center of Excellence in Information Technology and Telecommunications, State of Oklahoma, USA

**Topic:** Startup fund as Domain Leader

**Principal Investigator:** Ajith Abraham

**Funding period:** January - December 2004.

#### IEEE TECHNICAL COMMITTEE CHAIR

(November 01, 2008 - ), **Co-Chair of the Technical Committee on Soft Computing**, IEEE Systems Man and Cybernetics Society, IEEE, USA.

#### MY RESEARCH INTERESTS

My primary research is on developing machine intelligence using natural computation techniques. Hybridization of different natural computation techniques is an innovative approach to construct

Table 1: Summary of contributed research publications

<b>Authored book</b>	3
<b>Journal papers</b>	92
<b>Book chapters</b>	60
<b>Journal special issues</b>	31
<b>Edited books</b>	23
<b>Edited conference proceedings</b>	39
<b>Conference papers</b>	212
<b>Invited articles etc.</b>	25
<b>Total</b>	<b>484</b>

computationally intelligent systems consisting of connectionist learning paradigms, fuzzy inference systems, approximate reasoning and derivative free optimization methods such as evolutionary computation, particle swarm optimization, bacterial foraging and so on. I am also interested in network security, sensor networks, information assurance, e-commerce, semantic Web, Web intelligence, bioinformatics, financial modeling, decision support systems, data mining applications etc. Please see **Table 1** for a summary of research publications.

#### INVITED TALKS

##### **Keynote and Plenary Talks During International Conferences**

1. European Conference on Intelligence and Security Informatics (Euro ISI 2008), Esbjerg, Denmark, December 2008.
2. 2nd International Workshop on Evolutionary Techniques in Data-processing (DEXA'08/ETID '08), Turin, Italy, September 2008.
3. IEEE International Conference on the Applications of Digital Information and Web Technologies (ICADIWT 2008), Ostrava, Czech Republic, 2008.
4. IEEE International Conference on Intelligence and Security Informatics (IEEE ISI 2008), Taipei, Taiwan, 2008.
5. International Conference on Emerging Trends in Engineering and Technology (ICETET 2008), Nagpur, India.
6. The 6th International Conference on Informatics and Systems (INFOS 2008), Cairo, Egypt, March 2008.
7. International Symposium on Hybrid Soft Computing in Engineering, ICT and Social Science (HSC 2007), Sofitel Palm Resort, Johor Bahru, Malaysia, December 2007.
8. Hybrid Artificial Intelligence Systems Workshop (HAIS 2007) in conjunction with The Conference of the Spanish Association for Artificial Intelligence (CAEPIA), Salamanca, Spain, November 2007.
9. 6th International Conference on Computer Information Systems and Industrial Management Applications (CISIM 2007), Elk, Poland, 2007.
10. International Conference on Applied Computing (AC'07), Salamanca, Spain, February 2007.
11. 1st IEEE International Conference on Digital Information Management, (ICDIM'06), Bangalore, India, December 2006.
12. 8th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC'06), Timisoara, Romania, September 2006.
13. First International Conference on Bio-Inspired Computing: Theory and Applications (BICTA'06), Wuhan, China, September 2006.
14. The Third International Conference on Neural, Parallel and Scientific Computations (NPSC'06), Atlanta, USA, August 2006.
15. ) International Conference on Applied Computing 2006 (AC'06), San Sebastian, Spain, February 2006.

16. 7th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC'05), Timisoara, Romania, September 2005.
17. International Conference on Applied Computing 2005 (AC'05), Algarve, Portugal, February 2005.
18. 7th International Mendel Conference on Soft Computing (MENDEL'01), Brno, Czech Republic, June 2001.

### **Tutorials During International Conferences**

1. Hybrid Soft Computing: Architectures, Prospects and Applications, International Conference on Emerging Trends in Engineering and Technology, ICETET 2008, Nagpur, India.
2. Hybrid Soft Computing: Architectures, Prospects and Applications, The 6th International Conference on Informatics and Systems, INFOS 2008, Cairo, Egypt, March 2008.
3. Evolutionary Multiobjective Optimization: Reviews, Perspectives and Applications, Applied Computing, AC 2006, San Sebastian, Spain, February 2006.
4. Meta-learning Evolutionary Artificial Neural Networks, Second International Conference on Hybrid Intelligent Systems, HIS 2002, Santiago, Chile, December 2002.
5. Hybrid Soft Computing: Architectures, Prospects and Applications, 6th Online World Conference on Soft Computing in Industrial Applications, WSC6, On the Internet, September 2001.
6. Designing Neuro-Fuzzy Systems - Reviews and Prospects for Applications in Practice, 15th European Simulation Multiconference, ESM 2001, Prague, June 2001.
7. It is Time to Fuzzify Neural Networks!, International Conference on Intelligent Multimedia and Distance Education, ICIMADE'01, Fargo, USA, June 2001.
8. Fusing Artificial Intelligence Techniques: Reviews and Prospects for Industrial Applications, Second International Conference on Computers in Industry, ICCI 2000, Bahrain, November 2000.

### **Invited Seminars**

1. National Institute of Applied Sciences, INSA Lyon, France (2008)
2. Arab Open University, Kuwait (2008)
3. Universiti Teknologi Malaysia, Johor Bahru, Malaysia (2007)
4. Universitat Politecnica de Catalunya, Barcelona, Spain (2007)
5. Open University of Catalonia Barcelona, Catalonia, Spain (2007)
6. Norwegian University of Science and Technology, Trondheim, Norway (2007)
7. Information and Communications University, Korea (2007)
8. National Kaohsiung University of Applied Sciences, Taiwan (2006)
9. Yonsei University, Seoul, Korea (2006)
10. University Babes-Bolyai (UBB), Cluj-Napoca, Romania (2006)
11. University of Burgos, Burgos, Spain (2006)
12. Rovira i Virgili University, Tarragona, Spain (2006)
13. National Kaohsiung University of Applied Sciences, Taiwan (2005)
14. Department of Computer Science, Chung-Ang University, Seoul, Korea (2005)
15. Jinan University, Shandong, China (2005)
16. Dalian University of Technology, Dalian, China (2005)
17. Dalian Maritime University, Dalian, China (2005)
18. Dalian Fisheries University, Dalian, China (2005)
19. Hanbat National University, Korea (2005)

20. University College Dublin, Ireland (2005)
21. James Cook University, Australia (2004)
22. New Mexico Tech, USA (2003)
23. University of South Australia, Adelaide, Australia (2001)
24. University of Calgary, Calgary, Canada (2001)
25. Deakin University, Melbourne, Australia (2000)

## TEACHING

### Subjects Taught

My teaching portfolio concentrates on past ten years during which I taught 14 subjects at graduate and under-graduate levels (Please see Table 2).

Table 2: Summary of Teaching Experience

Subjects Taught	Level	Responsibility
Computational Intelligence	Graduate	Instructor
Digital Logic Theory	Under graduate	Instructor
Fuzzy Sets, Fuzzy Logic and Fuzzy Inference Systems: Theory and Applications	Graduate	Instructor
Operating Systems	Graduate	Instructor
Intelligent Data Mining	Graduate	Instructor
Computer Science Migration	Graduate	Instructor
E-commerce	Under graduate	Instructor
Computer Architecture	Under graduate	Instructor
Artificial Intelligence I	Under graduate	Instructor
Artificial Intelligence II	Graduate	Instructor
Evolutionary and Neural Computing	Graduate	Instructor
Computer Models for Business Decisions	Graduate	Tutor
Project Management	Graduate & under graduate	Tutor
General Operations Management	Graduate & under graduate	Tutor

### Summer School

1. Lectured a course on *Intrusion Detection Systems* during the *European Future Generation Internet (EuroFGI)*, PhD course on Information and Communication Technologies Security Course during June 11 - 15, 2007, held at Norwegian University of Science and Technology, Trondheim, Norway.
2. Lectured a course on *Intrusion Detection and Prevention Systems* for a graduate course during September - October, 2007 held at Norwegian University of Science and Technology, Trondheim, Norway.

## ACADEMIC ADVISING

### Main Supervisor - Completed Research Students

#### Ph.D.

Cong Tran (2004), University of South Australia, Australia

#### M.S.

Saulat Farooq (2005), University of South Australia, Australia

Brent Doeksen (2003), Oklahoma State University, USA

Srilatha Chebrolu (2003), Oklahoma State University, USA

Sandhya Peddabachigari (2003), Oklahoma State University, USA

### Committee Involvement

## Ph.D.

Srinivas Mukkamala (2003), New Mexico Technology, USA  
Okkyung Choi (2004-2006), Chung Ang University, Seoul, Korea  
Namoh Kang (2004-2006), Chung Ang University, Seoul, Korea

## M.S.

Pramesh Muppala (2003), Oklahoma State University, USA  
Miao Chong (2003), Oklahoma State University, USA  
Ruiyuan Guo (2003), Oklahoma State University, USA

## Awards and Honors

### Outstanding Faculty Award

Was awarded the outstanding faculty award (Research) by the Department of Computer Science, Oklahoma State University, USA in 2003.

### Best Paper Awards and Nominations

1. Best technical paper award of ICIC 2000, Second International conference on Computers in Industry, Bahrain, November 13-15, 2000. The best paper was selected from a total of 45 papers (52 % acceptance). The award includes US\$1000 and a certificate of merit. **Paper details:** *Ajith Abraham, A Soft Computing Approach for Fault Prediction of Electronic Systems, Published by The Bahrain Society of Engineers, Majeed A Karim et al. (Eds.), Bahrain, pp. 83-91, 2000.*
2. Best technical paper of the Biological Simulation Track, 15th European Simulation Conference, Prague, Czech Republic, 06-09 June 2001. **Paper details:** *Ajith Abraham, Ninan Sajith and Babu Joseph, Will We Have a Wet Summer? Long-term Rain Forecasting Using Soft Computing Models, Modelling and Simulation 2001, Publication of the Society for Computer Simulation International, Prague, Czech Republic, Kerckhoffs E.J.H. and Snorek M. (Eds.), ISBN 1565552253, pp. 1044-1048, 2001.*
3. Best technical paper of CASYS 2001, Fifth International Conference on Computing Anticipatory Systems, Liege, Belgium, 13-18 August 2001. **Paper details:** *Sonja Petrovic-Lazerevic, Ken Coghill and Ajith Abraham, Neuro-Fuzzy Support of Knowledge Management in Social Regulation, Computing Anticipatory Systems, Dubois D.M.(Ed.), American Institute of Physics, New York, ISBN 0735400814, pp. 387-400, 2002.*
4. Best paper award nomination of IEA/AIE'04, 17th International Conference on Industrial Engineering Applications of Artificial Intelligence and Expert Systems, Canada, 2004. **Paper details:** *Marcin Paprzycki, Ajith Abraham and Ruiyuan Guo, Data Mining Approach for Analyzing Call Center Performance, Innovations in Applied Artificial Intelligence, Robert Orchard, Chunsheng Yang, Moonis Ali (Eds.), Lecture Notes in Computer Science 3029, Springer Verlag, Germany, pp. 1092-1101, 2004.*
5. Best technical paper of the Sixth International Conference on Intelligent Systems Design and Applications, ISDA'06, Jinan, China, 2006. Three best papers were selected by an award committee from a total of 490 accepted papers (27 % acceptance). **Paper details:** *Swagatam Das, Ajith Abraham and Amit Konar, Spatial Information based Image Segmentation Using a Modified Particle Swarm Optimization Algorithm, IEEE CS Press, ISBN 07695- 2528-8, Volume II, pp. 438-444, 2006.*
6. Best technical paper of the Second IEEE International Conference on Digital Information Management, Lyon, France, ICDIM 2007. Best paper was selected by a panel/committee from a total of 83 accepted papers (37.9% acceptance rate). **Paper details:** *Crina Grosan and Ajith Abraham, Exploration of Multiple Roots for a Polynomial System, IEEE Press, USA, ISBN 1-4244-1476-8, pp. 133-137, 2007.*
7. Best technical paper of the 7th International Conference on Computer Information Systems and Industrial Management Applications (CISIM'08), Ostrava, Czech Republic. Best Paper was selected by a panel from a total of 60 accepted papers. **paper details:** *Divyata Dal, Siby*

*Abraham, Ajith Abraham, Sugata Sanyal and Mukund Sanglikar, Evolution induced Secondary Immunity: An Artificial Immune System based Intrusion Detection System, IEEE Computer Society press, USA, ISBN 978-0-7695-3184-7, pp. 61-66, 2008.*

### **Academic Service Awards**

Track Chair of Information and Assurance Track, IEEE International Conference on Information Technology: Coding and Computing (ITCC'04), USA.

### **Industrial Awards**

Engineer of the Project Award, Hyundai Engineering and Construction Company Ltd, Seoul, Korea. The award citation reads '*. . . for exemplary conduct and best performance demonstrated in his dutiful and faithful commitment to his job*'.

### **Award Nominations and Others**

1. Listed in the First edition of Who's Who of Emerging Leaders, Marquis Who's Who, USA, 2007.
2. Listed in the 61st Edition of Who's Who in America, Marquis Who's Who, USA, 2007.
3. Listed in the 23rd Edition of Who's Who in the World, Marquis Who's Who, USA, 2006.
4. Listed in the 7th Edition of Who's Who in Science and Engineering, Marquis Who's Who, USA, 2003.
5. Living Legends, International Biographical Centre, Cambridge CB2 3QP, England, UK, 2004.
6. The Worldwide Honours List, International Biographical Centre, Cambridge CB2 3QP, England, UK, 2003.
7. 2000 Outstanding Intellectuals of the 21st Century Order of Excellence, International Biographical Centre, Cambridge CB2 3QP, England, UK, 2003.
8. 2000 Outstanding Scientists of the 21st Century International Biographical Centre, Cambridge CB2 3QP, England, UK, 2003.
9. Honorary Member of Research Board of Advisors, The American Biographical Institute Inc., 2001.

### **JOURNAL EDITOR**

#### **Editorial Board Memberships in International Journals**

1. (2003 - ), Co-Editor in Chief, International Journal of Hybrid Intelligent Systems (IJHIS), IOS Press, The Netherlands.
2. (2004 - ), Founding Editor in Chief, International Journal of Computational Intelligence Research (IJCIR), Research India Publications, India.
3. (2005 - ), Editor in Chief, Journal of Information Assurance and Security (JIAS), Dynamic Publishers Inc., USA.
4. (2007 - ), Co-Editor-in-Chief, International Journal of Grid and Utility Computing (IJGUC), Inderscience Publishers, Geneve, Switzerland.
5. (2007 - ), Co-Editor-in-Chief, International Journal of Autonomic Computing (IJAC), Inderscience Publishers, Geneve, Switzerland.
6. (2007 - ), Deputy Editor-in-Chief, International Journal of Computational Intelligence in Bioinformatics and Systems Biology (IJCIBSB), Inderscience Publishers, Geneve, Switzerland.
7. (2005 - ), Editorial Advisory Board, Journal of Intelligent and Fuzzy Systems (JIFS), IOS Press, The Netherlands.
8. (2007- ), Editorial Advisory Board, International Journal of Reasoning Based Intelligent Systems, Inder science Publishers, Geneve, Switzerland.
9. (2008- ), Editorial Advisory Board, International Journal of Software Resuse, California, USA.

10. (2008- ), Editorial Advisory Board, International Journal of Thinking Objectively, California, USA.
11. (2008- ), Editorial Advisory Board, International Journal of Unified Software Engines, California, USA.
12. (2004- ), Associate Editor, Neurocomputing, Elsevier Science, The Netherlands.
13. (2002- 2005), Associate Editor, International Journal of Systems Science (IJSS), Taylor and Francis, UK.
14. (2005- 2008), Associate Editor, International Journal of Web Services Practices, Seoul, Korea.
15. (2004- ), Associate Editor, Journal of Digital Information Management (JDIM), Digital Information Research Foundation, India.
16. (2007- ), Associate Editor, Advances in Fuzzy Systems, Hindawi Corporation, USA.
17. (2007- ), Associate Editor, International Journal of Biometrics, Inderscience Publishers, Geneva, Switzerland.
18. (2008- ), International Domain Expert, International Journal of Patterns, California, USA.
19. (2008- ), Editor, International Journal of Software Architecture, California, USA.
20. (2008- ), Editor, International Journal of BioSciences and Technology, India.
21. (2008- ), Editor, International Journal of Soft Computing and Bioinformatics, India
22. (2008- ), Editor, Advances in Management, India
23. (2004- ), Editor, Journal of Universal Computer Science (J.UCS), Know-Center, Graz, Austria.
24. (2004- ), Editor, Journal of Information and Knowledge Management, World Scientific, Singapore.
25. (2005- ), Editor, International Journal of Neural Parallel and Scientific Computations (NPSC), Dynamic Publishers Inc. USA.
26. (2004- ), Editor, International Journal of Network Security, Journal of Science Publications, Taiwan.
27. (2006- ), Editor, International Journal of Computational Intelligence and Applications (IJCIA), World Scientific, Singapore.
28. (2006- ), Editor, International Journal of Innovative Computing and Applications, Inder science Publishers, Geneva, Switzerland.
29. (2006- ), Editor, International Journal of Theoretical and Applied Computer Sciences (IJ-TACS), GBS Publishers, India.
30. (2006- ), Editor, International Journal of Computational Intelligence: Theory and Practice, Serial Publishers, India.
31. (2006- 2007 ), Consulting Editor, International Journal of Computational Intelligence in Bioinformatics, India.
32. (2006- 2007), Consulting Editor, Journal of Advances in Computational Sciences and Technology (ACST), ISSN 0973-6107, Research India Publications, India.

CONTRIBUTED RESEARCH PUBLICATIONS

## PUBLISHED BOOKS

### Authored Books

1. *Ajith Abraham* and Yasuhiko Dote, **Engineering Hybrid Intelligent Systems: Architectures and Perspectives**, Studies in Fuzziness and Soft Computing, Springer Verlag, Germany, ISBN 3-540-25058-1, 2009.
2. Swagatam Das, *Ajith Abraham* and Amit Konar, **Metaheuristic Clustering**, Studies in Computational Intelligence, Springer Verlag, Germany, Volume 178, ISBN: 978-3-540-92172-1, 2009 (Foreword by Dr. Witold Pedrycz).
3. Yuehui Chen and *Ajith Abraham*, **Flexible Neural Trees: Theoretical Foundations: Perspectives and Applications**, Springer Verlag, Germany, 2009.

### Edited Books

1. Aboul-Ella Hassanien, *Ajith Abraham*, Athanasios Vasilakos, Witold Pedrycz, **Foundations of Computational Intelligence Vol 1: Learning and Approximation Theoretical Foundations and Applications**, Studies in Computational Intelligence, Springer Verlag, Germany, 2009.
2. Aboul-Ella Hassanien, *Ajith Abraham*, Francisco Herrera, **Foundations of Computational Intelligence Vol 2: Approximate Reasoning Theoretical Foundations and Applications**, Studies in Computational Intelligence, Springer Verlag, Germany, 2009.
3. *Ajith Abraham*, Aboul-Ella Hassanien, Patrick Siarry and Andries Engelbrecht, **Foundations of Computational Intelligence Vol 3: Global Optimization Theoretical Foundations and Applications**, Studies in Computational Intelligence, Springer Verlag, Germany, 2009.
4. *Ajith Abraham*, Aboul-Ella Hassanien and Andre Carvalho, **Foundations of Computational Intelligence Vol 4: Bio-Inspired Data Mining Theoretical Foundations and Applications**, Studies in Computational Intelligence, Springer Verlag, Germany, 2009.
5. Aboul-Ella Hassanien, *Ajith Abraham* and Vclav Snel, **Foundations of Computational Intelligence Vol 5: Function Approximation and Classification**, Studies in Computational Intelligence, Springer Verlag, Germany, 2009.
6. *Ajith Abraham*, Aboul-Ella Hassanien, Andre Carvalho and Vaclav Snasel, **Foundations of Computational Intelligence Vol 6: Data Mining Theoretical Foundations and Applications**, Studies in Computational Intelligence, Springer Verlag, Germany, 2009.
7. Aboul-Ella Hassanien, Jemal Abawajy, *Ajith Abraham*, Hani Hagraas, **Pervasive Computing : Innovations in Intelligent Multimedia and Applications**, Series in Computer Communications and Networks, Springer Verlag, Germany, 2008.
8. *Ajith Abraham*, Rafael Falcon and Rafael Bello, **Rough Set Theory: A True Landmark in Data Analysis**, Studies in Computational Intelligence, Springer Verlag, Germany, ISBN 978-3-540-89920-4, 325 pages, 2008.
9. Fatos Xhafa and *Ajith Abraham*, **Metaheuristics for Scheduling: Distributed Computing Environments**, Studies in Computational Intelligence, Springer Verlag, Germany, ISBN: 978-3-540-69260-7, 380 pages, 2008.
10. Fatos Xhafa and *Ajith Abraham*, **Metaheuristics for Scheduling: Industrial and Manufacturing Applications**, Studies in Computational Intelligence, Springer Verlag, Germany, ISBN: 978-3-540-78984-0, 345 pages, 2008.
11. *Ajith Abraham*, Crina Grosan, Witold Pedrycz, **Engineering Evolutionary Intelligent Systems**, Studies in Computational Intelligence, Springer Verlag, Germany, ISBN 978-3-540-75395-7, 400 pages, 2008.
12. Arpad Kelemen, *Ajith Abraham* and Yuehui Chen, **Computational Intelligence in Bioinformatics**, Studies in Computational Intelligence, Springer Verlag, Germany, ISBN: 978-3-540-76802-9, 330 pages, 2008.
13. Aboul-Ella Hassanien, *Ajith Abraham* and Janusz Kacprzyk, **Computational Intelligence in Multimedia Processing**, Studies in Computational Intelligence, Springer Verlag, Germany, ISBN: 978-3-540-76826-5, 400 pages, 2008.

14. Arpad Kelemen, *Ajith Abraham* and Yulan Liang, **Computational Intelligence in Medical Informatics**, Studies in Computational Intelligence, Springer Verlag, Germany, ISBN: 978-3-540-75766-5, 390 pages, 2008.
15. Crina Grosan, *Ajith Abraham*, Hisao Ishibuchi, **Hybrid Evolutionary Algorithms**, Studies in Computational Intelligence, Vol. 75, Springer Verlag, Germany, ISBN 978-3-540-73296-9, 405 pages, 2007.
16. Nadia Nedjah, *Ajith Abraham*, Luiza de Macedo Mourelle, **Computational Intelligence in Information Assurance and Security**, Studies in Computational Intelligence, Volume 57, Springer Verlag, Germany, ISBN-10 3-540-71077-9, 2007.
17. *Ajith Abraham*, Crina Grosan and Vitorino Ramos, **Swarm Intelligence and Data Mining**, Studies in Computational Intelligence, Springer Verlag, Germany, pages 270, ISBN: 3-540-34955-3, 2006 (Foreword by James Kennedy).
18. *Ajith Abraham*, Crina Grosan and Vitorino Ramos, **Stigmergic Optimization**, Studies in Computational Intelligence, Springer Verlag, Germany, pages 300, ISBN: 3-540-34689-9, 2006.
19. Nadia Nedjah, *Ajith Abraham* and Luiza de Macedo Mourelle, **Genetic Systems Programming**, Studies in Computational Intelligence, Springer Verlag Germany, ISBN: 3-540-29849-5, pages 250, 2006 (Foreword by Dr. John Koza).
20. *Ajith Abraham*, Lakhmi Jain and Robert Goldberg, **Evolutionary Multiobjective Optimization: Theoretical Advances and Applications**, Springer Verlag, London , ISBN 1852337877, 12 Chapters, 315 pages, 2005.
21. *Ajith Abraham*, Lakhmi Jain and Berend Jan van der Zwaag, **Innovations in Intelligent Systems: Design, Management and Applications**, Studies in Fuzziness and Soft Computing, Springer Verlag Germany, ISBN: 354020265X, 18 Chapters, 470 pages, 2004 (Foreword by Dr. Clarence de Silva).
22. Ravi Jain, *Ajith Abraham*, Colette Faucher and Berend Jan van der Zwaag, **Innovations in Knowledge Engineering**, Advanced Knowledge International, Australia, 12 Chapters, ISBN 097500408, 351 pages, 2003 (Foreword by Dr. Jim Austin).
23. *Ajith Abraham*, Lakhmi Jain and Janusz Kacprzyk, **Recent Advances in Intelligent Paradigms and Applications**, Studies in Fuzziness and Soft Computing, Springer Verlag Germany, ISBN 3790815381, 12 Chapters, 272 pages, 2002 (Foreword by Dr. Ronald Yager).

#### JOURNAL PUBLICATIONS

##### Peer Reviewed Articles Published (or in press) in International Journals

1. Swagatam Das, Sambarta Dasgupta , Arijit Biswas, *Ajith Abraham*, and Amit Konar, On Stability of the Chemotactic Dynamics in Bacterial Foraging Optimization Algorithm, **IEEE Transactions on Systems, Man and Cybernetics - Part A**, IEEE Press, USA, 2009.
2. Javier Bajo, Juan Corchado, Yanira De Paz, Juan De Paz, Sara Rodriguez, Quintin Martin and *Ajith Abraham*, SHOMAS: Intelligent Guidance and Suggestions in Shopping Centres, **Applied Soft Computing**, Elsevier Science, The Netherlands, 2009.
3. Aboul Ella Hassanien, *Ajith Abraham*, James Peters, Gerald Schaefer and Christopher Henry, Rough Sets and Near Sets in Medical Imaging: A Review, **IEEE Transactions on Information Technology in Biomedicine**, IEEE Press, USA, 2009.
4. Swagatam Das, Amit Konar , *Ajith Abraham*, and Uday Chakraborty, Differential Evolution with a Neighborhood Based Mutation Operator, **IEEE Transactions on Evolutionary Computation**, IEEE Press, USA, 2009.
5. Sambarta Dasgupta, Swagatam Das, *Ajith Abraham* and Arijit Biswas, Adaptive Computational Chemotaxis in Bacterial Foraging Optimization: An Analysis, **IEEE Transactions on Evolutionary Computation**, IEEE Press, USA, 2009.
6. Zhenxiang Chen, Bo Yang, Yuehui Chen, *Ajith Abraham*, Crina Grosan, Lizhi Peng, Hybrid Traffic Classifier for Peer-to-Peer Systems Based on Network Processors, **Applied Soft Computing**, Elsevier Science, The Netherlands, 2009.

7. Swagatam Das, Arijit Biswas, *Ajith Abraham* and Sambarta Dasgupta, Design of Fractional Order PID Controllers with an Improved Differential Evolution, **Engineering Applications of Artificial Intelligence**, Elsevier Science, The Netherlands, 2009.
8. Alvaro Herrero, Emilio Corchado, Lourdes Saiz and *Ajith Abraham*, DIPIP: a Neural Knowledge Management Model Framework for Decision Support, **Computational Intelligence**, Backwell Publishing, UK, 2009.
9. Alvaro Herrero, Emilio Corchado, Maria Pellicer and *Ajith Abraham*, MOVIH-IDS: A Mobile-Visualization Hybrid Intrusion Detection System, **Neurocomputing Journal**, Elsevier Science, Netherlands, 2009.
10. Sambarta Dasgupta, Swagatam Das, Arijit Biswas and *Ajith Abraham*, Automatic Circle Detection on Digital Images Using an Adaptive Bacterial Foraging Algorithm, **Soft Computing: Soft Computing - A Fusion of Foundations, Methodologies and Applications**, Springer Verlag, Germany, 2009.
11. Lizhi Peng, Bo Yang, Yuehui Chen and *Ajith Abraham*, Data Gravitation Based Classification, **Information Sciences**, Elsevier Science, The Netherlands, 2009.
12. Aboul ella Hassanien and *Ajith Abraham*, Rough Morphology Hybrid Approach for Mammography Image Classification and Prediction, **International Journal of Computational Intelligence and Applications**, World Scientific Press, Singapore, 2009.
13. Sambarta Dasgupta , Arijit Biswas, Swagatam Das and *Ajith Abraham*, Modeling and Analysis of the Population Dynamics of Differential Evolution Algorithm, **AI Communications - The European Journal on Artificial Intelligence**, IOS Press, Netherlands, 2009.
14. Crina Grosan and *Ajith Abraham*, A Novel Global Optimization Technique for High Dimensional Functions, **International Journal of Intelligent Systems**, John Wiley and Sons, USA, 2009.
15. Zhenxiang Chen, Haiyang Wang, *Ajith Abraham*, Crina Grosan, Bo Yang, Yuehui Chen and Lin Wang, Improving Neural Network Classification Using Further Division of Recognition Space, **International Journal of Innovative Computing, Information and Control**, Volume 5, 2009.
16. Crina Grosan, *Ajith Abraham* and Aboul Ella Hassainen, Designing Resilient Networks Using Multicriteria Metaheuristics, **Telecommunication Systems: Modelling, Analysis, Design and Management**, Springer Verlag, Germany, 2009.
17. Aboul Ella Hassanien, *Ajith Abraham* and Crina Grosan, Spiking Neural Network and Wavelets for Hiding Iris Data in Digital Images, **Soft Computing - A Fusion of Foundations, Methodologies and Applications**, Springer Verlag, Germany, Volume 12, 2008.
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212. Baikunth Nath and *Ajith Abraham*, Parallel Machine Scheduling using Genetic Algorithms, In Proceedings of International AMSE conference on Computer Modeling, Simulation and Communication, CMSC-99, Mahanti P.K. Dhyani P. (Eds.), ISBN 0074637525, Tata McGraw-Hill Publishing Co. Ltd, India, pp. 124-128, 1999.

## OTHER PUBLICATIONS

### Invited/Non refereed papers/Short articles etc.

1. *Ajith Abraham*, Nature Inspired Online Real Risk Assessment Models for Security Systems, European Conference on Intelligence and Security Informatics, EuroISI 2008, Esbjerg, Denmark , Lecture Notes in Computer Science, Springer Verlag Germany, pp. 3, 2008 (**Plenary talk**).
2. *Ajith Abraham*, Evolutionary Data Processing, 2nd International Workshop on Evolutionary Techniques in Data-processing (DEXA'08/ETID '08), IEEE Computer Society Press, USA, 2008 (**Invited talk**).
3. *Ajith Abraham*, Network and Information Security: Role of Intrusion detection Program, First IEEE International Conference on the Applications of Digital Information and Web Technologies (ICADIWT 2008), Ostrava, Czech Republic, 2008 (**Keynote talk**).
4. *Ajith Abraham*, Modular Integration of Intelligent Systems, International Conference on Emerging Trends in Engineering and Technology, ICETET 2008, IEEE Computer Society Press, USA, ISBN 978-0-7695-3267-7, pp. XXX VII, 2008 (**Plenary talk**).
5. *Ajith Abraham*, Real Time Intrusion Prediction, Detection and Prevention Programs, IEEE International Conference on Intelligence and Security Informatics (IEEE ISI 2008), IEEE Press, USA, ISBN 978-1-4244-2414-6, pp. XLI-XLII, 2008 (**Plenary talk**).
6. *Ajith Abraham*, Engineering Hybrid Soft Computing Systems, The 6th International Conference on Informatics and Systems (INFOS2008), Cairo, Egypt, ISBN 977-403-290-X, pp. 3, 2008. (**Plenary talk**).
7. Sarina Sulaiman, Siti Mariyam Shamsuddin, *Ajith Abraham* and Shahida Sulaiman, A Framework of Rough-Cultural Algorithms in Optimizing Mobile Web Caching Performance, Journal of Information technology, ISSN 0128-3790, Universiti Teknologi Malaysia, pp. 118-133, 2008.
8. *Ajith Abraham*, Success Stories of Hybrid Soft Computing in Industrial Applications, First International Workshop on Hybrid Soft Computing in Engineering, ICT and Social Science, Johor Bahru, Malaysia, 2007 (**Plenary talk**).
9. *Ajith Abraham*, Engineering Hybrid Artificial Intelligent Systems, Second International Symposium on Hybrid Artificial Intelligent Systems (HAIS 2007), Advances in Softcomputing Series, Springer Verlag, Germany, E. Corchado et al. (Eds.): Innovations in Hybrid Intelligent Systems, ASC 44, 2007(**Plenary talk**).
10. *Ajith Abraham*, Nature Inspired Intrusion Detection Programs, 6th International Conference on Computer Information Systems and Industrial Management Applications, IEEE Computer Society Press, pp. xxviii, 2007 (**Plenary talk**).
11. *Ajith Abraham*, Evolution of Intrusion Detection Systems, Proceedings of the International Conference on Applied Computing, Salamanca, Spain, Nuno Guimaraes and Pedro Isaias (Eds.), ISBN 978-972-8924-30-0, pp. 21, 2007 (**Plenary talk**).
12. Ajith Abraham, Hybrid Evolutionary Algorithms, International Conference on Bio-Inspired Computing - Theory and Applications, BIC-TA'06, Wuhan, China, 2006 (**Plenary talk**).
13. *Ajith Abraham*, Tuning Evolutionary Algorithm Performance Using Nature Inspired Heuristics, 8th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC'06), Timisoara, Romania, IEEE CS Press, pp. 13, 2006 (**Plenary talk**).
14. *Ajith Abraham*, Meta learning evolutionary artificial neural networks, Third International Conference on Neural, Parallel and Scientific Computations, Atlanta, USA, G.S. Ladde et al. (Eds), ISBN 1-890888-02-8, Dynamic Publishers Inc. USA, 2006 (**Plenary talk**).
15. *Ajith Abraham*, Natural Computation for Business Intelligence from Web Usage Mining, 7th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC'05), Timisoara, Romania, IEEE CS Press, pp. 3-10, 2005 (**Plenary talk**).
16. Soumya Banerjee, Crina Grosan and *Ajith Abraham*, Modeling Crowd Behavior Using Emotional Ants, Journal of Studia Universitatis Babes-Bolyai, Informatica, Volume L, Number 1, pp. 37-48, 2005.

17. Crina Grosan, *Ajith Abraham*, Radu Campian, Stefan Tigan, Evolution Strategies for Ranking Several Trigeminal Neuralgia Treatments. Applied Medical Informatics, Volume 17, Issues 3-4, pp. 72-78, 2005.
18. Yuehui Chen, Ju Yang, Bo Yang and *Ajith Abraham*, Flexible Neural Trees Ensemble for Stock Index Modeling, 2005 IEEE International Conference on Intelligent Computing (ICIC05), CD ROM Proceedings, De-Shuang Huang, Jiming Liu and Seong-Whan Lee (Eds.), Hefei, China, 2005.
19. Crina Grosan and *Ajith Abraham*, Solving No Free lunch Issues from a Practical Perspective, In Proceedings of Ninth International Conference on Cognitive and Neural Systems, ICCNS'05, Boston University Press, USA, 2005.
20. Maria Ganzha, Marcin Paprzycki, Amalia Pirvanescu, Costin Badica and *Ajith Abraham*, Jade Based Multi-Agent E-commerce Environment, Analele Universitatii de Vest Timisoara - Seria Matematica/Informatica, Romania, Vol. XLII, pp. 79-100, 2004.
21. Marcin Paprzycki and *Ajith Abraham*, Agent Systems Today: Methodological Considerations, The International Conference on Management of e-Commerce and e-Government, Jangxi Science and Technology Press, China, ISBN 7539023694, pp. 416-421, 2003.
22. Garima Parakh, Sandhya Rani, Marcin Paprzycki, *Ajith Abraham* and Johnson Thomas, Agents Capable of Dynamic Negotiations, 3rd International Interdisciplinary Conference on Electronic Commerce, ECOM-03, Electronic Commerce: Research and Development, Paprzycki M. (Editor) ACTEN Press, Poland, pp.113-120, 2003.
23. Sonja Petrovic-Lazerevic, *Ajith Abraham* and Ken Coghill, Optimising Social Regulation Policies, In Proceedings of the Jugoslovenski simpozijum operacionim istrazivanjima , SYM-OP-IS 2002, Yugoslavia, ISBN 8684231007, Volume III, pp. 25 - 28, 2002.
24. *Ajith Abraham*, How Important is Meta-Learning in Evolutionary Fuzzy Systems?, In Proceedings of Sixth International Conference on Cognitive and Neural Systems, ICCNS'02, Boston University Press, USA, 2002.
25. *Ajith Abraham* and Baikunth Nath, Is Evolutionary Design the Solution for Optimizing Neural Networks?, In Proceedings of Fifth International Conference on Cognitive and Neural Systems, ICCNS 2001, Boston University Press, USA, 2001.

## BOOK REVIEWS

### Review of Books Published by ACM Computing Reviews

Available online from: <http://www.reviews.com>

1. *Ajith Abraham*, (Book Review), Learning from data: Concepts, Theory, and Methods, by Cherkassky V., Mulier F., Wiley-IEEE Press, 2007 [Published on May 25, 2008].
2. *Ajith Abraham*, (Book Review), Handbook of innovative computing: models, enabling technologies, and applications, by Albert Zomaya (Ed.), Springer-Verlag New York, Inc., Secaucus, NJ, 736 pages, 2005 [Published on October 05, 2006].
3. *Ajith Abraham*, (Book Review) 'Handbook of Learning and Approximate Dynamic Programming' by Si J., Barto A., Powell W., Wunsch D., IEEE press series on computational intelligence, Wiley-IEEE Press, 2005 (Published on March 18, 2005).
4. *Ajith Abraham*, (Book Review), 'Metacreation: Art and Artificial Life' by Whitelaw M., MIT Press, Cambridge, MA, 281 pages, 2004 (Published on July 02, 2004).
5. *Ajith Abraham*, (Book Review), 'Evolutionary Algorithms and Agricultural Systems' by Mayer D., Kluwer Academic Publishers, Norwell, MA, 2001. 107 pages (Published on August 28, 2002).

**International Conference Organization**

1. Tutorial Chair / Program Vice Chair, 2008 IEEE/WIC/ACM International Joint Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT'08), Sydney, Australia, December 9-12, 2008.
2. General Co-Chair, Eighth International Conference on Intelligent Systems Design and Applications, ISDA'08, Taiwan, November 2008.
3. Program Chair, Third IEEE International Conference on Digital Information Management, ICDIM 2008, London, UK, November 2008.
4. General Co-Chair, International Conference on Soft Computing as Transdisciplinary Science and Technology, CSTST 2008, France, October 2008.
5. Program Co-Chair, Third International Conference on Hybrid Artificial Intelligent Systems, (HAIS 2008), Burgos, Spain, September 24-26, 2008.
6. General Co-Chair, Eighth International Conference on Hybrid Intelligent Systems, HIS 2008, Barcelona, Spain, September 2008.
7. General Co-Chair, Fourth International Symposium on Information Assurance and Security, IAS 2008, Naples, Italy, September 2008.
8. General Co-Chair, 2nd European Symposium on Computer Modeling and Simulation, EMS 2008, Liverpool, UK, September 8-10, 2008.
9. Program Chair, IEEE International Conference on the Application of Digital Information and Web Technologies, ICADIWT 2008, August 04-06, 2008.
10. Conference Chair, 7th Computer Information Systems and Industrial Management Applications (CISIM'08), Ostrava, Czech Republic, June 27-28, 2008.
11. Program Chair, Second European Conference on Data Mining, ECDM 2008, Amsterdam, Netherlands, 24 - 26 July 2008.
12. General Co-Chair, Second Asia International Conference on Modelling and Simulation, Kuala Lumpur, Malaysia, 13 - 15 May 2008.
13. General Co-chair, Tenth International Conference on Computer Modeling and Simulation, (UKSIM'08), Cambridge, UK, 1 - 3 April 2008.
14. Program Committee Vice Chair, 2007 IEEE/WIC/ACM International Conference on Web Intelligence (WI'07), Silicon Valley, USA, November 2-5, 2007.
15. Program Co-Chair, Second IEEE International Conference on Digital Information Management, ICDIM 2007, Lyon, France, October 29-31, 2007.
16. General Co-Chair, Seventh International Conference on Intelligent Systems Design and Applications, ISDA'07, Rio de Janeiro, Brazil, October 22-24, 2007.
17. Program Co-Chair, Seventh International Conference on Hybrid Intelligent Systems, HIS'07, Kaiserslautern, Germany, September 17-19, 2007.
18. General Co-Chair, The Third International Symposium on Information Assurance and Security, Manchester, United Kingdom, August 29-31, 2007.
19. Program Chair, First European Conference on Data Mining, Lisbon, Portugal, 6-8 July, 2007
20. Conference Co-Chair, 6th International Conference on Computer Information Systems and Industrial Management Applications - CISIM 2007, Elk, Poland, June 28 30, 2007.
21. General Co-Chair, First Asia International Conference on Modeling and Simulation, Phuket, Thailand, March 27-30, 2007.
22. Program Co-Chair, Sixth International Conference on Hybrid Intelligent Systems, HIS'06, Auckland, New Zealand, December 13-15, 2006.
23. General Co-Chair, Sixth International Conference on Intelligent Systems Design and Applications, ISDA'06, Jinan, China, October 16-18, 2006.

24. Program Co-Chair, International Conference on New Generation Web Services Practices (NWeSP'06), Seoul, Korea, September 25-28, 2006.
25. General Co-Chair, Fifth International Conference on Hybrid Intelligent Systems, HIS'05, Rio de Janeiro - Brazil, November 06-09, 2005.
26. Vice Co-Chair, 5th International Conference on Intelligent Systems Design and Applications, ISDA'05, Wroclaw, Poland, September 08-10, 2005.
27. Program Co-Chair, International Work Conference on New Generation Web Services Practices (NWeSP'05), Seoul, Korea, August 21-25, 2005.
28. General Co-Chair, The Fourth International Workshop on Soft Computing as Transdisciplinary Science and Technology, (WSTST 2005), Muroran, Japan, May 25-27, 2005.
29. Program Co-Chair, First World Congress in Lateral Computing (WCLC'04), Bangalore, India, 17-19 December 2004.
30. General Co-Chair, Fourth International Conference on Hybrid Intelligent Systems, HIS'04, Kitakyushu, Japan, 05-08 December 2004.
31. General Chair, 9th Online World Conference on Soft Computing in Industrial Applications WSC'8, September 20th-October 08th, 2004.
32. Program Co-Chair, Fourth International Conference on Intelligent Systems Design and Applications (ISDA'04), Budapest, Hungary, 26-28 August 2004.
33. General Co-Chair, Third International Conference on Hybrid Intelligent Systems, HIS'03, Melbourne, Australia, 14-17 December 2003.
34. General Chair, Third International Conference on Intelligent Systems Design and Applications (ISDA'03), Tulsa, Oklahoma, 10-13 August 2003.
35. General Co-Chair, Second International Conference on Hybrid Intelligent Systems, HIS'02, Santiago, Chile, 01-04 December 2002.
36. Organizing Co-Chair, First International Workshop on Intelligent Knowledge Management Techniques (IKOMAT'02), Italy, 16-18 September 2002.
37. Organizing Chair, Second International Workshop on Intelligent Systems Design and Applications (ISDA 2002), Atlanta, USA (07-08) August 2002.
38. General Co-Chair, First International Workshop on Hybrid Intelligent Systems, HIS 2001, Adelaide, Australia, (10-11) December 2001.
39. General Co-Chair, First International Workshop on Intelligent Systems Design and Applications, ISDA 2001, San Francisco, USA, May 2001.

### **International Conference Program Committee Participation**

1. International Conference on Man-Machine Interactions, The Beskids - Kocierz Pass, Poland , September 25-27, 2009.
2. IEEE International Conference on Information Reuser and Integration, IRI09, Las Vegas, August 10-12, 2009.
3. International Joint Conferences on Bioinformatics, Systems biology and computational intelligent, Shanghai, China, August 3-6, 2009.
4. International Conference on Advances in Social Networks Analysis and Mining 2009 (ASONAM09), Athens, Greece, July 20-22, 2009.
5. International Work-conference on the Interplay between Natural and Artificial Computation, Santiago, Spain, June 26-28, 2009.
6. IEEE International Conference on Intelligence and Security Informatics, Texas, USA, Jun 8-12, 2009.
7. Workshop on Self-Organization in Multi-Agent Systems, SOMAS 2009, Uppsala, Sweden, June 3-5, 2009.

8. 3rd International KES Symposium on Agents and Multi-agent Systems Technologies and Applications, KES AMSTA 2009, Uppsala, Sweden, June 3-5, 2009.
9. IEEE Congress on Evolutionary Computation, CEC 2009, Trondheim, Norway, 18-21 May 2009.
10. The 13th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD-09), Thailand, 27-30 April, 2009.
11. First International Symposium on Intelligent Decision Technologies, IDT'09, Himeji, Japan, 23-25 April 2009
12. International Conference on Intensive Applications and Services, INTENSIVE 2009, Valencia, Spain, April 21-25, 2009.
13. 5th International Conference on Web Information Systems and Technologies, Lisbon, Portugal, March 23-26, 2009.
14. First International Conference on Human Computer Interaction, HCI2009, Allahabad, India, 20-23 January 2009.
15. International Workshop on Data Mining and Artificial Intelligence (DMAI 2008) in conjunction with 11th International Conference on Computer and Information Technology (ICIT 2008), Khulna, Bangladesh, December 25-27, 2008.
16. 2008 IEEE/WIC/ACM International Joint Conference on Web Intelligence and Intelligent Agent Technology (WI'08), Sydney, Australia, December 9-12, 2008.
17. International Conference on Intelligent Data Engineering and Automated Learning (IDEAL'08), Daejeon, South Korea, November 2-5, 2008.
18. International Conference on Knowledge Management, Columbus, Ohio, 23-24 October, 2008.
19. 2008 IEEE International Conference on e-Business Engineering, ICEBE 2008, Xi'an, China, October 22-24, 2008.
20. 3rd International Symposium Advances in Artificial Intelligence and Applications (AAIA'08), Wisla, Poland, October 20-22, 2008.
21. World Automation Congress, WAC 2008, Hawaii, USA, September 28 - October 2, 2008.
22. 3rd International Conference on Hybrid Artificial Intelligence Systems (HAIS 2007), Burgos, Spain, September 24-26, 2008.
23. 34th Euromicro Conference on Software Engineering and Advanced Applications, SEAA 2008, Parma, Italy, September 1-5, 2008.
24. 2008 IEEE International Conference on Granular Computing, Hangzhou, China, Aug 26-28, 2008.
25. The Ninth International Conference on Software Engineering, Artificial Intelligence, Networking, and Parallel/Distributed Computing, SNPD2008, Thailand, August 6 - 8, 2008.
26. International Workshop on Combinations of Intelligent Methods and Applications, CIMA 2008, in conjunction with 18th European Conference on Artificial Intelligence (ECAI-08), Patras, Greece, July 21-22, 2008.
27. IEEE 11th International Conference on Computational Science and Engineering, Sao Paulo - Brazil, July 16-18, 2008.
28. 2008 International Conference on Data Mining (DMIN'07), Las Vegas, USA, July 14-17, 2007.
29. The 2008 IEEE International Conference on Information Reuse and Integration (IEEE IRI-08), Las Vegas, USA, July 13 - 15, 2008
30. 2008 IEEE Conference on Soft Computing and Industrial Applications, June 25-27, 2008.
31. 2008 IEEE World Congress on Computational Intelligence (WCCI 2008), Hong Kong, June 1-6, 2008.
32. International Symposium on Agent and Multi-Agent Systems Technologies and Applications, Wroclaw, Poland, 31 May -1 June 2008.

33. 11th International Conference on Business Information Systems, BIS 2008, Innsbruck, Austria, 5-7 May 2008.
34. 4th International Conference on Web Information Systems and Technologies, WEBIST 2008, Madeira, Portugal, 4 - 7, May 2008.
35. Workshop on Self-Organization in Multi-Agent Systems, SOMAS 2008, in conjunction with 2nd International Symposium on Agents and Multi-Agent Systems - Technologies and Applications, Seoul, Korea, 26 - 28 March 2008.
36. Second International Conference on Complex, Intelligent and Software Intensive Systems (CISIS-2008), Polytechnic University of Catalonia, Barcelona, Spain, March 4-7, 2008.
37. 2nd International Conference on Software, Knowledge, Information Management and Applications (SKIMA), Kathmandu, Nepal, 18-21 March 2008.
38. IEEE/ACM International Conference on Signal-Image technology and Internet Based Systems, SITIS 2007, China, December 16-19, 2007.
39. 8th International Conference on Intelligent Data Engineering and Automated Learning (IDEAL'07), Birmingham, UK, 16-19 December, 2007.
40. 2007 International Symposium on Computational Models for Life Sciences CMLS07, Gold Coast, Queensland, Australia, December 17-19, 2007.
41. International Conference on Enterprise Systems and Applications Activity Center, Academia Sinica, Taipei, Taiwan, December 12-13, 2007.
42. 2007 IEEE Asia-Pacific Services Computing Conference (IEEE APSCC 2007) Tsukuba, Japan, December 11-14, 2007.
43. The Third International Conference on Intelligent Sensors, Sensor Networks and Information Processing (ISSNIP), Melbourne, Australia, December 3-6, 2007
44. 6th Mexican International Conference on Artificial Intelligence, Aguascalientes, Mexico, November 4-10, 2007.
45. Steering Committee Member, Third IEEE International Conference on Intelligent Information Hiding and Multimedia Signal Processing, IHHMSP'07, Kaohsiung, Taiwan, November 26-28, 2007.
46. 2007 International Conference on Convergence Information Technology (ICCIT07), Gyeongju, Korea, November 21 - 23, 2007.
47. 12th Conference of the Spanish Association of Artificial Intelligence Workshop on Technology Transfer on Artificial Intelligence, Salamanca, Spain, November 12-16, 2007.
48. The 6th Congress of Logic Applied to Technology (LAPTEC07), Santos, Brazil, November 7-9, 2007.
49. IEEE/WIC/ACM Workshop on Agents and Data Mining Interaction 2007, (ADMI2007), Silicon Valley, USA, November 2-5, 2007.
50. 2007 IEEE International Conference on Granular Computing Silicon Valley, USA, November 2-4, 2007.
51. 2007 IEEE/WIC/ACM International Conference on Web Intelligence (WI'07), Silicon Valley, USA, November 2-5, 2007.
52. IEEE International Conference on e-Business Engineering (ICEBE'07), Hong Kong October 24-26, 2007.
53. IEEE 7th International Symposium on Bioinformatics and Bioengineering (BIBE 2007), Cambridge - Boston, Massachusetts, USA, October 15-17, 2007.
54. Symposium on Advances in Artificial Intelligence and Applications (AAIA07), Wisla, Poland, October 15-17, 2007.
55. 12th Online World Conference on Soft Computing in Industrial Applications (WSC12), on the WWW, September 2007.
56. 2007 IEEE Congress on Evolutionary Computation (CEC), Singapore, September 25-28, 2007.

57. Analysis of Genetic Representations and Operators (AGRO 2007), Special session of the 2007 IEEE Congress on Evolutionary Computation, (CEC), Singapore, September 25-28, 2007.
58. The IEEE Region 8 International Conference on Computer as a tool, (EUROCON 2007), Warsaw, Poland, September 9-12, 2007.
59. 2007 IFIP International Conference on Network and Parallel Computing (NPC 2007), Dalian, China, September 18-21, 2007.
60. 13th International Conference on Soft Computing, Prague, Czech Republic, 5 - 7 September 2007.
61. 33rd EUROMICRO Conference on Software Engineering and Advanced Applications (SEAA), Lubeck, Germany, August 27 - 31, 2007.
62. 4th International Conference on Knowledge Management (ICKM 2007), Vienna, Austria, August 27-28, 2007.
63. IEEE International Joint Conference on Neural Networks (IJCNN'07), Orlando, Florida, USA, August 12-17, 2007.
64. The 2007 IEEE International Conference on Information Reuse and Integration, (IEEE IRI'07), Las Vegas, USA, August 13 - 15, 2007.
65. 2007 IEEE Three-Rivers Workshop on Soft computing in Industrial Applications, Passau, Germany, August 1-3, 2007.
66. The International Joint Conference on e-Business and Telecommunications, Barcelona, Spain, July 28-31, 2007.
67. IEEE Joint Conference on E-Commerce Technology (CEC'07) and Enterprise Computing, E-Commerce and E-Services (EEE'07), Tokyo, Japan, July 23-26, 2007.
68. 6th International Conference on Computer Information Systems and Industrial Management Applications, Elk, Poland, June 28 30, 2007.
69. 2007 International Conference on Data Mining (DMIN'07), Las Vegas, USA, June 25-28, 2007.
70. Fourth International Symposium on Neural Networks, (ISNN'07), Nanjing, China, June 3-7, 2007.
71. International Work-conference on the Interplay between Natural and Artificial Computation, IWINAC'07, Murcia, Spain, June 18-21, 2007.
72. The 8th Conference on Computing (CORE 2007), Mexico City, May 16-18, 2007.
73. 10th International Conference on Business Information Systems, (BIS'07), Poznan, Poland, April 25-27, 2007.
74. First International Workshop on P2P, Parallel, Grid and Internet Computing (3PGIC-2007), Vienna, Austria, April 10-13, 2007.
75. First International Conference on Complex, Intelligent and Software Intensive Systems, Vienna, Austria, April 10-13, 2007.
76. Second Information and Communication Technologies International Symposium (ICTIS'2006), Tetuan, Morocco, April 3-5, 2007.
77. IEEE Symposium on Computational Intelligence for Security and Defense Applications (CISDA'07), Hawaii, April 1-5, 2007.
78. 1st International Conference on Digital Communications and Computer Applications, Jordan, March 19-22, 2007.
79. Steering Committee Member, Second International Conference on Intelligent Information Hiding and Multimedia Signal Processing, IIHMSP'06, California, December 18-22, 2006.
80. 2006 IEEE/WIC/ACM International Conference on Web Intelligence (WI-06), Hong Kong, December 18-22, 2006.
81. International Symposium on Fuzzy and Rough Sets (ISFUROS 2006), Santa Clara, Cuba, December 5-8, 2006.

82. First IEEE International Conference on Digital Information Management (ICDIM'06), Bangalore, India, December 6-8, 2006.
83. 15th International Conference on Computing, CIC-2006, Mexico, November 21 - 24, 2006.
84. 5th Mexican International Conference on Artificial Intelligence (MICAI'06), Mexico, November 13-17, 2006.
85. 2006 International Conference on Hybrid Information Technology (ICHIT 2006), Cheju Island, Korea, November 9 - 11, 2006.
86. International Symposium on Artificial Intelligence and Applications (AIA06), Wisla, Poland, November 6-10, 2006.
87. IEEE International Conference on e-Business Engineering (ICEBE), Shanghai, China, Oct 24-26, 2006.
88. European Simulation and Modeling Conference (ESM 2006), Toulouse, France, October 23-25, 2006.
89. 5th International Conference on Computer Information Systems and Industrial Management Applications, Elk, Poland, October 18-20, 2006.
90. 11th Online World Conference on Soft Computing in Industrial Applications (WSC'11), World Wide Web, September 18 - October 06, 2006.
91. 7th International Conference on Intelligent Data Engineering and Automated Learning (IDEAL'06), Burgos, Spain, September 20-23, 2006.
92. First International Conference on Bio-Inspired Computing: Theory and Applications (BIC-TA), Wuhan, China, September 18-22, 2006.
93. 2006 International Conference on Innovative Computing, Information and Control, Beijing Jiaotong University, Beijing, P. R. China, August 30 - September 1, 2006.
94. International Conference on e-Business (IC-B'06), Setubal, Portugal, August 7-10, 2006.
95. 2006 IEEE Congress on Evolutionary Computation (CEC'06), 2006 World Congress in Computational Intelligence, Vancouver, Canada, July 16-21, 2006.
96. 6th International Conference on Recent Advances in Soft Computing (RASC 2006), Canterbury, UK, 10-12, July 2006.
97. 8th IEEE Conference on E-Commerce Technology (CEC'06) and the 3rd IEEE Conference on Enterprise Computing, E-Commerce and E-Services (EEE'06), San Francisco, CA, June 26-29, 2006.
98. The 2006 International Conference on Data Mining, Part of the 2006 World Congress in Computer Sciences, Las Vegas, USA, June 26-29, 2006.
99. 9th International Conference on Business Information Systems, BIS'06, Klagenfurt, Austria, May 31-June 2, 2006.
100. The 12th International Conference on Soft Computing, MENDEL 2006, Brno, Czech Republic, May 31- June2, 2006.
101. The Third IEEE International Symposium on Neural Networks (ISNN 2006), Chengdu, China, May 29-31, 2006.
102. 17th Information Resources Management Association (IRMA) Conference, Washington DC, USA, May 21-24, 2006.
103. 2006 IEEE International Conference on Granular Computing, Atlanta, USA, May 10-12, 2006.
104. Evolutionary Optimization Workshop - EvoOpt 2006, The 19th International FLAIRS Conference, Melbourne Beach, Florida, May 11-13, 2006.
105. The 4th International Multi-Conference on Computer Science and Information Technology, CSIT'06, Amman, Jordan, April 5-7, 2006.
106. Workshop on Learning Algorithms for Pattern Recognition, in conjunction with The 18th Australian Joint Conference on Artificial Intelligence, Sydney, Australia, 5-9 December 2005.

107. 2005 IEEE-ICDM Workshop on MultiAgent Data Warehousing and MultiAgent Data Mining, New Orleans, Louisiana, USA, November 27, 2005.
108. The International Conference on Knowledge Management (ICKM'05), North Carolina, USA, 27-28 October, 2005.
109. The IEEE International Conference on e-Business Engineering (ICEBE'05), Beijing, China, October 18-20, 2005.
110. 2005 European Simulation and Modeling Conference (ESM 2005), Porto, Portugal, 24-26 October, 2005.
111. The 2005 IEEE/WIC/ACM International Conference on Intelligent Agent Technology (IAT'05), France, September 19-22, 2005.
112. 10th Online World Conference on Soft Computing in Industrial Applications (WSC'10), September 19th - October 7th, 2005.
113. Poster track Program Committee, International Joint Conference on Artificial Intelligence (IJCAI-05), Edinburgh, Scotland, July 30 - August 5, 2005.
114. 2005 IEEE Midnight-Sun Workshop on Soft Computing Methods in Industrial Applications, Finland, June 28-30, 2005.
115. 2005 IEEE Congress on Evolutionary Computation, Edinburgh, UK, September 2-5, 2005.
116. Agent-Based Computing II- ABC 2005, Mexico, Morocco, Australia, 2005.
117. 10th International Conference on Fuzzy Theory and Technology, Salt Lake City, Utah, USA, July 21-26, 2005.
118. Information and Communication Technologies International Symposium (ICTIS'2005), Tetuan, Morocco, June 03-06, 2005.
119. Workshop on Information Security Assurance and Security (WISA'05), Tetuan, Morocco, June 03-06, 2005.
120. 18th International FLAIRS Conference, Special Track on Integrated Intelligent Systems, Florida, USA, May 16-18, 2005.
121. The 2nd International Conference on Information Technology: Human Computer Interaction, ICIT 2005, Amman, Jordan, May 3-5, 2005.
122. Fifth Congress of Logic Applied to Technology (LAPTEC'05), Hyogo, Japan, April 2-4, 2005.
123. International Work-conference on the Interplay between Natural and Artificial Computation (IWINAC-2005), Las Palmas, Canary Islands (Spain), June 1-4, 2005.
124. 11th International Mendel Conference on Soft Computing (MENDEL'05), Brno, Czech Republic, June 2005.
125. 8th International Conference on Business Information Systems (BIS 2005), Poznan, Poland, April 20 - 22, 2005.
126. International Conference on Coding and Computing (ITCC'05), Las Vegas, USA, April 11-13, 2005.
127. 5th International Conference on Recent Advances in Soft Computing (RASC 2004), Nottingham, UK, December 16-18, 2004.
128. International Conference on Knowledge Management (ICKM'04), Singapore, December 13-15, 2004.
129. 2004 IEEE/WIC International Conference on Web Intelligence (WI 2004), Beijing, China, September 20-24, 2004.
130. International Conference on Signal Processing, Anakkale, Turkey, September 15-17, 2004.
131. 2004 International Conference on Artificial Intelligence and Neural Networks, Anakkale, Turkey, July 14-16, 2004.
132. 2004 IEEE Congress on Evolutionary Computation (CEC2004), Portland, USA, 19-23 June 2004.

133. International Conference on Educational Technologies, Anakkale, Turkey, May 26-28, 2004.
134. International Conference on Coding and Computing (ITCC'04), Las Vegas, USA, April 05-07, 2004.
135. 7th International Conference on Business Information Systems, BIS'04, Poznan, Poland. April 21-23, 2004.
136. 2004 International Workshop on Hybrid Methods for Adaptive Systems, Aachen, Germany, 10-12 June 2004.
137. 10th International Mendel Conference on Soft Computing (MENDEL'04), Brno, Czech Republic, June 2004.
138. HiPC 2003 Workshop on Soft-Computing (WoSCo'03), Hyderabad, India, December 2003.
139. 8th Online World Conference on Soft Computing in Industrial Applications WSC 8, September 29th-October 10th, 2003.
140. 2003 MidSouth Computational Biology and Bioinformatics Society (MCBIOS), Arkansas, USA, 2003.
141. 2003 IEEE/WIC International Conference on Web Intelligence (WI 2003), Beijing, China, October 2003.
142. 2003 IEEE Congress on Evolutionary Computation (CEC2003), Canberra, Australia, December 8-12, 2003. 88. International Conference on Applied Artificial Intelligence, 15-17, December 2003, India.
143. Knowledge-Based Intelligent Information & Engineering Systems, 3- 5 September 2003, Oxford, United Kingdom.
144. 12th International Conference on Intelligent and Adaptive Systems and Software Engineering, July 9-11, 2003, San Francisco, USA.
145. 7th International Work Conference on Artificial and Natural Neural Networks, June 3-6, 2003, Spain.
146. 9th International Mendel Conference on Soft Computing (MENDEL'03), Brno, Czech Republic, June 2003.
147. HiPC 2002 Workshop on Soft Computing (WoSCo'02), December 18, 2002, India.
148. 7th Online World Conference on Soft Computing in Industrial Applications (WSC7), 23 September - 10 October 2002.
149. 2002 WSES International Conference on Mathematics, Optimization and Applications, Poland, 01-05 September 2002.
150. 2002 International Conference on Machine Learning and Applications (ICMLA'02), June 2002.
151. 8th International Mendel Conference on Soft Computing, Brno, Czech Republic, June 2002.
152. 2001 WSES International Conference on Mathematics, Optimization and Applications, Cairns, Australia, 17-21 December 2001.
153. 7th International Mendel Conference on Soft Computing, Brno, Czech Republic, June 2001. 100. The 2001 International Conference on Artificial Intelligence, ICAI 2001, Las Vegas, USA, June 2001.
154. The 2001 International Conference on Mathematics and Engineering Techniques in Medicine and Biological Sciences, METMBS'01, Las Vegas, USA, June 2001.

#### **Organization of Special Sessions/Workshop/Track**

1. Fourth International Workshop on Evolutionary Multiobjective Optimization – Design and Applications (EMODA'08), Kaohsiung, Taiwan, October 2008.
2. The 2nd International Workshop on Web Grid based Virtual Laboratories, Experimenting and Simulation (WG-LES2008), Kaohsiung, Taiwan, October 2008.

3. Workshop on Intelligent Soft Computing Approaches to Multimedia Processing (ISCAMP'2008), Kaohsiung, Taiwan, October 2008.
4. International Workshop on Intelligent Soft Computing Approaches to Multimedia Processing, (ISCAMP'2007), Kaohsiung City, Taiwan, November 26-28, 2007.
5. Hybrid Artificial Intelligence Systems Workshop (HAIS'07 - CAEPIA'07) in Conjunction with The Conference of the Spanish Association for Artificial Intelligence (CAEPIA), Salamanca, Spain, November 2007.
6. EMOA'07: International Workshop on Evolutionary Multiobjective Optimization: Design and Applications in conjunction with The Seventh International Conference on Intelligent Systems Design and Applications, ISDA'07, Rio de Janeiro, Brazil, October 22-24, 2007.
7. 1st International Workshop on Web Grid based Virtual Laboratories, Experimenting and Simulation (WG-LES2007) in conjunction with The Seventh International Conference on Intelligent Systems Design and Applications, ISDA'07, Rio de Janeiro, Brazil, October 22-24, 2007.
8. NCA'07: Natural Computing and Applications, in conjunction with 8th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing Timisoara, Romania, September 26-29, 2007.
9. International Workshop on Intrusion Prevention Systems (IWIPS'07), in conjunction with The Third International Symposium on Information Assurance and Security (IAS'07), Manchester, United Kingdom, August 29 - 31, 2007.
10. International Workshop on Soft Computing in Intelligent Multimedia, Seoul Olympic Parktel, Seoul, Korea, April 26-28, 2007.
11. IAPLM'06: The First International Workshop on Intelligent Application in Product Lifecycle Management, Jinan, China, October 16-18, 2006.
12. EMOA'06: International Workshop on Evolutionary Multiobjective Optimization: Design and Applications in conjunction with The Sixth International Conference on Intelligent Systems Design and Applications, ISDA'06, Jinan, China, October 16-18, 2006.
13. SIP'06: Swarm Intelligence and Patterns, SIP'05: Swarm Intelligence and Patterns, in conjunction with The Sixth International Conference on Intelligent Systems Design and Applications, ISDA'06, Jinan, China, October 16-18, 2006.
14. NCA'06: Natural Computing and Applications, in conjunction with 8th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing Timisoara, Romania September 26-29, 2006.
15. Session on 'Hybrid Neurocomputing in Financial Modeling and Forecasting' in conjunction with The Third International Symposium on Neural Networks (ISNN 2006), Chengdu, China, May 29-31, 2006.
16. NCA'05: Natural Computing and Applications, in conjunction with 7th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, Timisoara, Romania, September 25 - 29, 2005.
17. EMOA'05: International Workshop on Evolutionary Multiobjective Optimization: Design and Applications (EMOA'05), in conjunction with 5th International Conference on Intelligent Systems Design and Applications, ISDA'05, Wroclaw, Poland, September 08-10, 2005.
18. IAS'05: Information Assurance and Security, in conjunction with International Conference on Information Technology: Coding and Computing (ITCC 2005), April 11-13, 2005, Las Vegas, USA.
19. SIP'05: Swarm Intelligence and Patterns, in conjunction with The Fourth International Workshop on Soft Computing as Transdisciplinary Science and Technology, WSTST'05, Muroran, Japan, May 25-27, 2005.
20. SIP'04: Swarm Intelligence and Patterns, International Workshop Session in conjunction with ISDA'04 - 4th International Conference on Intelligent Systems Design and Applications, August 26-28, 2004, Budapest, Hungary.

21. IAS'04: Information Assurance and Security, International Conference on Information Technology: Coding and Computing (ITCC 2004), April 5-7, 2004, The Orleans, Las Vegas, Nevada, USA.
22. NF'03: Neural Network and Fuzzy Systems, 7th International Work Conference on Artificial and Natural Neural Networks, June 3-6, 2003, Spain.
23. CIM'03: Computational Intelligence in Management, 2003 EURO/INFORMS Joint International Meeting, July 6, 2003 - July 10, 2003 Istanbul, Turkey.

#### **Technical Reviews for International Journals**

1. IEEE Intelligent Systems
2. European Journal of Operational Research
3. IEEE Transactions on Neural Networks
4. Fuzzy Sets and Systems, Elsevier Science, Netherlands
5. IEEE Transactions on Knowledge and Data Engineering
6. IEEE Transactions on Fuzzy Systems
7. IEEE Transactions on Systems, Man and Cybernetics
8. IEEE Transactions on Evolutionary Computation
9. IEEE Power Engineering Transactions, IEEE Power Engineering Society, USA
10. International Journal of Approximate Reasoning, Elsevier Science, Netherlands
11. Web Intelligence and Agent Systems, WIAS Journal, IOS Press, Netherlands
12. Engineering Applications of Artificial Intelligence, Elsevier Science, Netherlands
13. Applied Soft Computing, Elsevier Science, Netherlands
14. Applied Intelligence, Kluwer Academic Publishers, The Netherlands
15. DNA and Cell Biology
16. ACM SIGKDD Explorations
17. International Journal of Intelligent and Fuzzy Systems, IOS Press, Netherlands
18. Journal of Fuzzy Optimization and Decision Making, Kluwer Academic Publishers, USA
19. Neurocomputing Journal, Elsevier Science, Netherlands
20. Information Sciences, Elsevier Science, Netherlands
21. Decision Support Systems, Elsevier Science, Netherlands
22. Journal of Network and Computer Applications, Elsevier Science, Netherlands
23. International Journal of Neural Computing Applications, Springer-Verlag, London
24. International Journal of Neural, Parallel & Scientific Computations, USA
25. International Journal of Control and Intelligent Systems, IASTED, Canada
26. Parallel and Distributed Computing Practices, Nova Publishers, USA
27. Informatica - An International Journal of Computing and Informatics
28. Bioinformatics Journal, European Bioinformatics Institute
29. ACM Computing Reviews, Association for Computing Machinery, USA
30. ACM Crossroads
31. International Journal of Production Research, Taylor and Francis, UK
32. Genetic Programming and Evolvable Machines, Springer Verlag, Germany
33. Image Processing and Communications: An International Journal, Poland
34. Arabian Journal of Computer Science, Saudi Arabia
35. International Journal of Network Security, Taiwan

36. Artificial Intelligence in Medicine, Elsevier Science, Netherlands

#### **Faculty Promotion Committees Served**

- *Lecturer to Senior Lecturer*, University of Manchester, Manchester, UK (2006)
- *Assistant Professor to Associate Professor*, Southern Illinois University, Carbondale, IL, USA (2006)
- *Lecturer to Senior Lecturer*, Monash University, Melbourne, Australia (2007)
- *Reappointment as Associate Professor*, Nanyang Technological University, Singapore (2007)

#### **Faculty Services**

1. Department of Computer Science, Oklahoma State University, Faculty Search Committee Member (2002 - 2003).
2. Department of Computer Science, Oklahoma State University, Faculty Graduate Committee Member (2002-2003).

#### **Graduate Thesis Examination - PhD / MS**

1. University of Waterloo, Canada.
2. Indian Institute of Technology, Kharagpur, India
3. Open University of Catalonia, Barcelona, Spain
4. University of South Australia, Australia.
5. Griffith University, Australia.
6. Madurai Kamaraj University, India.
7. Monash University, Australia.
8. Rovira i Virgili University, Spain.
9. University of Pretoria, South Africa.
10. Yonsei University, South Korea.
11. Chung-Ang University, South Korea.
12. Nanyang Technological University, Singapore.

#### **Evaluator of Research Grant Applications**

1. University of Leuven, Belgium.
2. King Fahd University of Petroleum and Minerals, Saudi Arabia.
3. Czech Academy of Sciences, Prague, Czech Republic.
4. Arab Open University, Kuwait.

#### **PROFESSIONAL MEMBERSHIPS AND TECHNICAL SOCIETY/WORKING GROUP MEMBERSHIPS**

1. Senior Member, IEEE - Institution of Electrical Electronics Engineers Inc, USA
2. Senior Member, IEEE Computer Society, USA
3. Member, IEAust - Institution of Engineers, Australia
4. Member, IEE - Institution of Electrical Engineers, United Kingdom
5. Member, ACM - Association for Computing Machinery, USA
6. Member, WFSC - World Federation on Soft Computing
7. Member, EUSFLAT - European Society for Fuzzy Logic and Technology, (Working Group on Neuro-Fuzzy Systems)
8. Member, EvoNet, European Network for Excellence in Evolutionary Computing
9. Member, EU/ME, European Chapter on Metaheuristics, Working Group of the The Association of European Operational Research Societies, Europe

#### ACADEMIC FELLOWSHIPS / TRAVEL GRANTS

1. Center of Excellence in Information Technology and Telecommunications, State of Oklahoma, US\$1,500, 2003.
2. Cognitive and Neural Systems (ICCNS'02), Fellowship funded by the Office of Naval Research: US\$1,500, 2002.
3. Cognitive and Neural Systems (ICCNS'01) Fellowship funded by Office of Naval Research: US\$1,367, 2001.
4. Monash Postgraduate Travel Fellowship for AU\$1,500.00 (May 2001).
5. Monash Postgraduate Travel Fellowship for AU\$1,915.00 (December 2000).
6. Monash Post Graduate Travel Fellowship for AU\$1,665.00 (April 2000).
7. Monash Graduate Fellowship (AU\$17,606.00/annum, 1999-2001).

#### MISC. INFORMATION

##### **Personal Details, Special Skills etc.**

- Citizenship: Australian (naturalized)
- Management: Collaborative research, software project management, business start-up planning.
- Software development: Algorithms
- Programming languages: C, C++, FORTRAN
- Software: MATLAB, AutoCAD, Visio, PSpice, TLCADD etc.,
- Operating Systems: DEC UNIX, SGI IRIX, Microsoft Windows

#### REFERENCES

**Available upon request**

I hereby state that the statements made above are true to the best of my knowledge and belief. For further information, please feel free to contact me.

*Ajith Abraham*