

## *Curriculum Vitae*

**Surname:** AKSOY

**First Name:** Mehmet Sabih

**Date of Birth:** 11.09.1959

**Nationality:** Turkish

**Gender:** Male

**Marital status:** Married with four children

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## **Qualifications**

Degree	University/Institution	Year
B.Sc.	Istanbul Technical University Engineering Faculty Istanbul/ Turkey	1982
M.Sc.	Yildiz University Institute of Science Istanbul/ Turkey	1985
Ph.D.	University of Wales College of Cardiff Electrical, Electronic and Systems Engineering South Wales United Kingdom	1994
Assistant Professor	Sakarya University Engineering Faculty Sakarya/Turkey	1994
Associate Professor	Turkish Council of Higher Education Ankara/Turkey	1997
Professor	King Saud University Riyadh/Saudi Arabia	2008

## **Topic of Ph.D. Thesis**

New Algorithms for Machine Learning

## **Fields of interest**

Machine learning, Expert system , Knowledge Acquisition, Computer Programming, Data structures and algorithms, Data Mining, Artificial Neural Networks, Computer Vision, Robotics, Automated Visual inspection, Project Management.

## **Employment Record**

Employer's Name	from-to	Designation	Nature of job
Istanbul Technical University Sakarya Engineering Faculty Sakarya Turkey	1984-1985 and 1987-1990	Research Assistant	Lectures and laboratory Demonstration

Turkish Army Cebeci Army Supplies Factory Ankara Turkey	1985-1986	Technical Chief	Reorganisation of The factory
Sakarya University Sakarya Turkey	1994-1997	Assistant Professor	Lectures and Research
Sakarya University Sakarya Turkey	1997 - 2002	Associate Professor	Lectures and Research
Istanbul University Istanbul, Turkey	2001 – 2002	Associate Professor	Lectures and Research
King Saud University Riyadh Saudi Arabia	2002 – 2008 to date	Associate Professor	Lectures and Research
King Saud University Riyadh Saudi Arabia	2008 to date	Full Professor	Lectures and Research

### Administrative Positions

Positions	Year	University / Institution
Vice Head of Department	1997 – 2002	Sakarya University Engineering Faculty Dept. of Industrial Engineering Sakarya Turkey
Member of Executive Board	1998 – 2001	Sakarya University Institute of Science Sakarya Turkey
Member of Research Center Council	2004 – 2008	King Saud University College of Computer and Information Sciences
Member of PhD Council	2004 –	King Saud University College of Computer and Information Sciences

### Honors and Awards

Turkish Education Foundation scholarship	1979- 1984	TEV Istanbul Turkey
First degree of honors	1982	Istanbul Technical University Engineering Faculty Sakarya Turkey
ORS award (Overseas Research Students Award)	1993	University of Wales College of Cardiff South Wales United Kingdom
Sakarya University Research Award	1996	Sakarya, Turkey
The Scientific Award of Excellence 2011 in Artificial Intelligence	2011	American Bibliographical Institute, North Carolina USA

### Teaching Experience

**Undergraduate courses**

<b>Name of the Course</b>	<b>Year</b>	<b>University</b>	<b>Teaching Language</b>
Introduction to Science and Engineering	1994	Sakarya Univ. Eng. Faculty Sakarya, Turkey	English
Computer Programming (C, PASCAL and BASIC)	1994 – 2002	Sakarya Univ. Eng. Faculty Sakarya, Turkey	Turkish
C Programming Language	1994 –2002	Sakarya Univ. Eng. Faculty Sakarya, Turkey	English
Robotics	1998 – 2002	Sakarya Univ. Eng. Faculty Sakarya, Turkey	Turkish
Computer Systems Analysis	2000 – 2002	Sakarya Univ. Eng. Faculty Sakarya, Turkey	English
C programming Language	2001 –2002	Istanbul Univ. Eng. Faculty Istanbul, Turkey	Turkish
Introduction to Artificial Intelligence	2001 –2002	İstanbul Univ., Eng. Faculty Istanbul, Turkey	Turkish
Selected Topics (Introduction to Artificial Intelligence)	2002 – 2003	King Saud Univ. College of Comp. & Inf. Sciences Riyadh, Saudi Arabia	English
Selected Topics (Expert Systems)	2002 – 2003	King Saud Univ. College of Comp. & Inf. Sciences Riyadh, Saudi Arabia	English
Information Technology Project Management	2002 – 2008	King Saud Univ. College of Comp. & Inf. Sciences Riyadh, Saudi Arabia	English
Distributed Systems	2003-2004 and 2008	King Saud Univ. College of Comp. & Inf. Sciences Riyadh, Saudi Arabia	English
Electronic Commerce	2005- to date	King Saud Univ. College of Comp. & Inf. Sciences Riyadh, Saudi Arabia	English

**M.Sc. and Ph.D. Courses**

Inductive Learning in Artificial Intelligence	1995 - 2002	Sakarya Univ. Institute of Science, Sakarya Turkey	English
Engineering Applications of Artificial Intelligence	1999 - 2002	Sakarya Univ. Institute of Science, Sakarya Turkey	Turkish
Inductive Learning in Artificial Intelligence	1998 - 2002	Sakarya Univ. Institute of Science, Sakarya Turkey	English
Automated Visual Inspection	1998 - 2002	Sakarya Univ. Institute of Science, Sakarya Turkey	Turkish
Machine Learning	2000-2002	Sakarya Univ. Institute of Science, Sakarya Turkey	English
Artificial Intelligence and Knowledge Based Systems	2003 – to date	King Saud Univ. College of Comp. & Inf. Sciences	English

		Riyadh, Saudi Arabia	
Artificial Intelligence Techniques and Applications	2012- to date	King Saud Univ. College of Comp. & Inf. Sciences Riyadh, Saudi Arabia	English
Information and Knowledge Management	2014-	King Saud University College of Comp. & Inf. Sciences Riyadh, Saudi Arabia	English

## Publications

### A. ISI indexed Journal Papers

1. D.T.Pham and M.S.Aksoy "An algorithm for automatic rule induction", Artificial Intelligence in Engineering (8), pp.277-282, U.K., 1993.
2. D.T.Pham and M.S.Aksoy "RULES: A simple rule extraction system", Expert Systems with Applications, Vol.8, No.1, pp.59-65, USA, 1995.
3. D.T.Pham and M.S.Aksoy "A new algorithm for inductive learning", Journal of Systems Engineering (5), pp.115-122, U.K., 1995.
4. M.S.Aksoy, G.Cagil and A.K.Turker "Numberplate recognition using inductive learning", Robotics and Autonomous Systems, (33), pp.149-153, Canada, 2000.
5. M.S.Aksoy, O.Torkul and I.H.Cedimoglu, "An Industrial Visual Inspection System That Uses Inductive Learning", Journal of Intelligent Manufacturing, 15, pp:569-574, 2004.
6. Ömer Akgöbek, Yavuz Selim Aydin, Ercan Öztemel and Mehmet Sabih Aksoy, "A new algorithm for automatic knowledge acquisition in inductive learning", *Knowledge-Based Systems, Volume 19, Issue 6, Pages 388-395, October 2006*.
7. Mehmet Sabih Aksoy and Hassan Mathkour, "CSLS: Connectionist Symbolic Learning System", Mathematical & Computational Applications An International Journal, Vol. 14, No.3, pp. 177-186, 2009.
8. Mehmet Sabih AKSOY, Hassan Mathkour and Bader Ali ALASOOS, "Performance Evaluation of RULES-3 Induction System for Data Mining" *International Journal of Innovative Computing, Information and Control (IJICIC)*, Vol.6, No.8, Japan, 2010.
9. Mehmet Sabih Aksoy & Hassan Mathkour, "Signature Verification Using Rules3-Ext Inductive Learning System", International Journal of the Physical Sciences Vol. 6(18), pp. 4428 - 4434, 9 September, 2011.
10. Israa M.Al-Turaiki, Hassan Mathkour, Ameer Touir, M. S. Aksoy and Alaaeldin Hafez "Computational Approaches for Gene Prediction: A Comparative Survey", Science International-Lahore 23(2), pp. 83, 2011.
11. F. Al Rashed, M. Iftikhar, I. A. Shoukat, **M. S. Aksoy**, M. Zuair, Wasai Shadab Ansari, Atif Alamri, B. Landfeldt, Albert Y. Zomaya, "The Exact Solution of Exhaustive, Gated And Mixed Exhaustive & Gated Service Polling Models with Multiple Classes of Self-Similar traffic Input". Journal of Information, Volume 16, No.5, pp.2783-2799, 2013.
12. Hebah Elgibreen and Mehmet Sabih Aksoy, "RULES-IT: Incremental Transfer Learning with RULES family", Frontiers of Computer Science, Volume 8, Issue 4, pp. 537-562, 2014.
13. Muhammad Imran, Nazir Ahmad Zafar, Mohammed Abdullah Alnuem, Mehmet Sabih Aksoy and Athanasios V. Vasilakos, "Formal verification and validation of a

movement control actor relocation algorithm for safety–critical applications”, Wireless Networks, 01/2015; DOI 10.1007/s11276-015-0962-8.

14. Walaa Nagy and Mehmet Sabih Aksoy, “Survey: Knowledge Management for the Life Sciences Workflow Systems”, International Journal of Advanced Computer Science and Applications (IJACSA), Vol.6, No. 1, January 2015.
15. Hebah ElGibreen & Mehmet Sabih Aksoy, “Adopting Relational Reinforcement Learning in Covering Algorithms for Numeric and Noisy Environments”, International Journal of Computational Intelligence Systems, Vol. 9, No. 3, pp. 572-594, 2016.

## B. Refereed Journal Papers

1. **M.S.Aksoy** “A review of inductive learning algorithms”, Journal of Faculty of Management, Istanbul, Vol.25, No.2, pp.171-186, Turkey, 1996.
2. **M.S.Aksoy** and M.Bayram “A new technique to process and recognize barcodes using inductive learning”, International Journal of Mathematical and Computational Applications, Vol.1, No.2, pp.1-6, Turkey, 1996.
3. O.Torkul, I.H.Cedimoglu and **M.S.Aksoy** “A comparative study of existing manufacturing planing and control approaches”, International Journal of Mathematical and Computational Applications, Vol.1, No.2, pp.117-125, 1996.
4. M.Recep Bozkurt, **M.S Aksoy**, M.Ali Yalçın “The use of PC for Signal Production”,. Journal of Sakarya University Institute of Science, Vol 5., No 2, pp. 41-44, September 2001 (in Turkish).
5. Y. Bayam, **M.S. Aksoy** “Distance Learning in Turkey: The Sakarya University Example”, Journal of Sakarya University Institute of Science ,Vol.6., No. 1, pp. 169-175, March 2002 (in Turkish).
6. **M.S. Aksoy**, “Mask Selection for Image Processing”, Erciyes University Journal of the Institute of Science and Technology”, Vol.21, No. 1-2, 2005, pp.87-91.
7. M.S. Aksoy, “Pruning Decision Trees Using Rules3 Inductive Learning Algorithm”, Mathematical & Computational Applications An International Journal, Vol. 10, No. 1, pp. 113-120, 2005.
8. M.S. Aksoy, “Dynamic System Modeling Using Rules3 Induction Algorithm”, Mathematical & Computational Applications An International Journal, Vol. 10, No.1, pp. 121-132 , 2005.
9. Mehmet Sabih Aksoy, “Review of RULES Family of Algorithms”, Mathematical & Computational Applications An International Journal, Vol.13 , No.1., pp.51-60, 2008.
10. Muhammad Anshari, Abdullah Al-Mudimigh, and **Mehmet Aksoy**, “CRM Initiatives of Banking Sector in Saudi Arabia”, Special issue of International journal of the Computer, the Internet and Management, 17(SP1), 56.1-56.7, 2009.
11. Heru Susanto, Mohammad Nabil Almunawar, Yong Chee Tuan, **Mehmet Sabih Aksoy** and Wahyudin P. Syam, “Integrated Solution Modeling Software: A New Paradigm on Information Security Review and Assessment”, International Journal of Science and Advanced Technology (ISSN 2221-8386) Volume 1, No. 10, 2011.
12. Heru Susanto, Mohammad Nabil Almunawar, Yong Chee Tuan and **Mehmet Sabih Aksoy**, “I-SolFramework: An Integrated Solution Framework: Six Layers Assessment on Multimedia information Security Architecture Policy Compliance”, International Journal of Electrical & Computer Sciences IJECS-IJENS, Vol: 12, No: 1, 2012.
13. Heru Susanto, Mohammad Nabil Almunawar, Mehmet Sabih Aksoy and Yong Chee Tuan, “A Simulation Approach Paradigm: An Optimization and Inventory Challenge

- Case Study", Computer Science Journal, Vol.2, Issue:1, 2012.
14. **Mehmet Sabih Aksoy**, Orhan Torkul, Abdullah Almudimigh and Ismail H Cedimoglu, "Applications of Inductive Learning to Automated Visual Inspection", International Journal of Computer Applications 60(14):8-12, December 2012, USA.
  15. H. ElGibreen and **M. S. Aksoy**, "RULES – TL: A simple and Improved RULES Algorithm for Incomplete and Large Data", Journal of Theoretical and Applied Information Technology, Vol. 47, No.1, 2013.
  16. Dina Abdulaziz Al-Hammadi and **Mehmet Sabih Aksoy**, "Data Mining in Education- An Experimental Study", International Journal of Computer Applications, Volume 62, No.15, January 2013, USA.
  17. Dina A.AzizAlHammadi and Mehmet Sabih Aksoy, "Data Mining in Higher Education", Periodical of Engineering and Natural Sciences, International University of Sarajevo journal, Volume 1, No.1, 2013.
  18. Amal M Almana and Mehmet Aksoy, "An Overview of Inductive Learning Algorithms", *International Journal of Computer Applications* 88(4):20-28, February 2014. Published by Foundation of Computer Science, New York, USA.
  19. Amal M. Almana, Mehmet Sabih Aksoy, Rasheed Alzahrar, "A Survey On Data Mining Techniques In Customer Churn Analysis For Telecom Industry", Int. Journal of Engineering Research and Applications, Vol. 4, Issue 5( Version 6), May 2014, pp.165-171.
  20. Mehmet Sabih AKSOY ,Danah Algawiaz" Knowledge Management in the Cloud: Benefits and Risks", International Journal of Computer Applications Technology and Research (IJCATR), Volume 3, Issue 11, November 2014.
  21. H.ElGibreen and M.S. Aksoy, "Inductive Learning for Continuous Classes and the Effect of RULES Family", International Journal of Information and Education Technology, Vol.5, pp.564-570, 2014.
  22. H.ElGibreen and M.S. Aksoy, "Continuous Features in Inductive Learning and the Effect of RULES Family", International Journal of Computers, Vol.8, pp.66-75, 2014.
  23. Walaa Nagy and Mehmet Sabih Aksoy, "Survey: Knowledge Management for the Life Sciences Workflow Systems", International Journal of Advanced Computer Science and Applications (IJACSA), Vol.6, No. 1, January 2015.

## B. Conference Papers

1. **M.S.Aksoy** "Auto-Expert: A second generation expert system that forms its knowledge base automatically", The first symposium on Systems Engineering, pp. 245-252, Turkey, 12-13 October, 1995. (in Turkish)
2. **M.S.Aksoy** and O.Torkul "Dairy-Expert: An expert system to decide the necessary equipment for a dairy", The first National Symposium on Intelligent Manufacturing Systems, Sakarya Univ. ,pp. 475-482, Turkey, 1996. (in Turkish)
3. O.Torkul, **M.S.Aksoy** and I.H.Cedimoglu "Cell formation using reversed induction", Proc. 2nd International Symp. on Intelligent Manufacturing Systems, Sakarya University, pp. 43-51, Turkey, August 6-7, 1998.
4. B.Sengorur, **M.S.Aksoy** and N.Oz, "Parameters estimation in wastewater treatment using inductive learning", Proc. 2nd. International Symp. on Intelligent Manufacturing Systems, Sakarya University, pp.81-87, Turkey, August 6-7, 1998.
5. M.Danaci, H.R.Ozcalik and **M.S.Aksoy** "Artificial Neural Network Techniques for Dynamic Weighing Systems", Proc. 2nd. International Symp. on Intelligent

- Manufacturing Systems, Sakarya University, pp.333-341, Turkey, August 6-7, 1998.
6. **M.S.Aksoy**, G.Cagil and A.K.Turker "Numberplate recognition using inductive learning", Proc. 2nd. International Symp. on Intelligent Manufacturing Systems, Sakarya University, pp.411-416, Turkey, August 6-7, 1998.
  7. M.Col, O.Torkul and **M.S.Aksoy** "A heuristic approach for machine cell formation", The 26th International Conference on Computers and Industrial Engineering, Melbourne, Australia, 1999.
  8. Y.B. Canbolat , A. Ariduru, E. Gundogar and **M.S. Aksoy** "Reducing Work in Process With Fuzzy Logic at Job Shop Scheduling", 12<sup>th</sup> European Simulation Symposium, ESS'2000, September 28-30, 2000, pp.271-275, Hamburg, Germany.
  9. Torkul, O., **Aksoy, M.S.**, Col, M., "Grouping Analysis in Cellular Manufacturing System by Rule Extraction System-1", YA/EM 2000, Magosa, KKTC.
  10. **M.S.Aksoy**, O.Torkul and I.H.Cedimoglu, "An Industrial Visual Inspection System That Uses Inductive Learning", Visions for the Future, 3rd Int. Symp. on Intelligent Manufacturing Sys., Sakarya University, Sakarya, Turkey, August 30-31, 2001.
  11. Y.B. Canbolat, **M.S. Aksoy** and H.Taskin "Improving job shop performance using Fuzzy Logic", 2nd Int. Conf. On Responsive Manufacturing ,ICRM-2002, Gaziantep Univ., pp.642-648, Turkey, June 26-28, 2002.
  12. A. Turkyilmaz, M. Sevkli and **M.S. Aksoy**, "Inspection of ceramic tiles using inductive learning", 2nd Int. Conf. On Responsive Manufacturing ,ICRM-2002, Gaziantep Univ., pp.508-513, Turkey, June 26-28, 2002.
  13. O. Torkul, **M.S. Aksoy** and Y. Bayam, "Responsive distance learning in Turkey", 2nd Int. Conf. On Responsive Manufacturing ,ICRM-2002, Gaziantep Univ., pp.493-495, Turkey, June 26-28, 2002.
  14. M. Sevkli, A. Turkyilmaz and **M.S. Aksoy**, "Banknote recognition using inductive learning", Int. Conf. On Fuzzy Syst. And Soft Computational Intelligence in Management and Industrial Eng., FSSCIMIE'02, İstanbul Technical Univ., pp.122-128, Turkey, May 29-31, 2002.
  15. O. Uysal , M. Sevkli , A. Turkyilmaz and **M.S. Aksoy** "A new Method for Noise Reduction Based on Mode Filter Algorithm" , International Journal of Computational Intelligence, IJCI Proc. of Int. XII Turkish Symp. on AI and Neural Networks (TAINN 2003), Vo.1, No.1, pp. 327-329, July 2003.
  16. **M.S. Aksoy**, "Saudi Banknote Recognition Using Inductive Learning", Second Int. Industrial Eng. Conf., IIEC 2004, Riyadh, Saudi Arabia, December 19-21, 2004.
  17. **M.S. Aksoy**, "Applications of RULES-3 Induction System", IPROMS2005 virtual conference, Cardiff, U.K., 2005.
  18. **Mehmet Sabih AKSOY**, Heru Susanto, "The Six Sigma Phenomenon Change Little Thing Affect in Huge Result - synopsis of six sigma behavior and case study project", IPROMS 2009 (Virtual Conference), Cardiff, U.K., July 2009.
  19. **Mehmet Sabih AKSOY** and Heru Susanto, "I-sol Modeling For IT Application Management and Business Process Re-engineering - focusing on retail sales", International Industrial Informatics Seminar 2009, Sunan Kalijaga State Islamic University Yogyakarta, Indonesia, August 15, 2009.
  20. Muhammad Anshari, Abdullah Al-Mudimigh, and **Mehmet Aksoy**, "CRM Initiatives of Banking Sector in Saudi Arabia", *International Conference on IT to Celebrate S. Charmonman's 72nd Birthday, March 2009, Thailand.*
  21. Heru Susanto, Fahad Bin Muhaya, Mohammad Nabil Almunawar, **Mehmet Sabih Aksoy** and Wahyudin P. Syam "STOPE View on ISO / IEC 27001 Information Security Management System: Refined Strategy and Technology Domains", International

- Conference on Future Information Technology and Computing (FITC), Sanya - China, December 9-10, 2010.
22. H. ElGibreen and **M. S. Aksoy**, "Multi Model Transfer Learning with RULES Family," *International Conference on Machine Learning and Data Mining MLDM'2013*, Springer Verlag, New York, 2013.
  23. Dina A.Aziz AlHammadi and **Mehmet Sabih Aksoy**, " Data Mining in Higher Education", European Conference of Technology and Society, EuroTecS 2013, June 27 – 28, Sarajevo, Bosnia and Herzegovina.
  24. Mohsin Iftikhar, Nada Al Elaiwi and Mehmet Sabih Aksoy, "Performance Analysis of Priority Queuing Model for Low Power Wireless Body Area Networks (WBANs)", *Procedia Computer Science*, 34 (2014), 518 – 525.
  25. Hebah ElGibreen, Mehmet Sabih Aksoy, "Incremental transfer RULES with incomplete data", 5th IEEE Symposium on Computational Intelligence and Data Mining, CIDM-2014, Orlando, FL, USA, December 9-12, 2014, 257-264.
  26. H. ElGibreen and M. Aksoy, "RULES Family: Where does it stand in Inductive Learning", 8th International Conference on Computer Engineering and Application (CEA'14), Tenerife, Spain, 2014.
  27. Shehla Riaz, Hamra Afzaala, Muhammad Imran, Nazir Ahmad Zafar and Mehmet Sabih Aksoy, "Formalizing Mobile Ad Hoc and Sensor Networks using VDM-SL", The 6th International Conference on Emerging Ubiquitous Systems and Pervasive Networks, (EUSPN 2015), *Procedia Computer Science* 63 ( 2015 ) 148 – 153.
  28. Hebah ElGibreen, Mehmet Sabih Aksoy, "Classifying Continuous Classes with Reinforcement Learning RULES", 7th Asian Conference, ACIIDS 2015, Bali, Indonesia, March 23–25, 2015, Part II, 116-127.
  29. Hebah ElGibreen and Mehmet Sabih Aksoy, "Relational Reinforcement Rule Induction and the Effect of Pruning", The 18th International Conference on Artificial Intelligence, ICAI'16: July 25-28, 2016, Las Vegas, USA.

### C. Books

1. M.S. Aksoy "MS DOS ", Sakarya University, Turkey, 1995. (in Turkish)
2. M.S.Aksoy and A.K.Turker "QuickBASIC by examples", Degisim Press, Sakarya, Turkey 1996. (in Turkish)
3. M.S. Aksoy and O.Akgobek, "C Programming Language", Beta Press, 2nd Edition, Istanbul 2004. ISBN: 975-295-139 –2 (in Turkish)

### Book chapters

1. H. ElGibreen and M. Aksoy, "Multi model transfer learning with RULES family", In *Machine Learning and Data Mining in Pattern Recognition*, vol. 7988, P. Perner, Ed., ed: Springer Berlin Heidelberg, 2013, pp. 42-56. (Book Chapter in Springer, indexed in ACM digital library/Scopus-Elsevier).
2. H. ElGibreen and M. S. Aksoy, "Classifying Continuous Classes with Reinforcement Learning RULES," in *Intelligent Information and Database Systems*. vol. 9012, N. T. Nguyen, B. Trawiński, and R. Kosala, Eds., ed: Springer International Publishing, 2015, pp. 116–127. (Accepted by ACIIDS conference and published as a book chapter in Springer, indexed in ACM digital library/Scopus-Elsevier)

#### **D. Technical Notes**

1. M.S.Aksoy "Description and Complete listing of RULES-1 Inductive LearningAlgorithm", University of Wales College of Cardiff, ELSYM, Technical Note ARC39, U.K., 1993.
2. M.S.Aksoy "Description and Complete listing of RULES-2 Inductive LearningAlgorithm", University of Wales College of Cardiff, ELSYM, Technical Note ARC40, U.K., 1993.
3. M.S.Aksoy "Description and Complete listing of RULES-3 Inductive LearningAlgorithm", University of Wales College of Cardiff, ELSYM, Technical Note ARC41, U.K., 1993.
4. M.S.Aksoy "Description and Complete listing of Back Propagation Neural Network", University of Wales College of Cardiff, ELSYM, Technical Note ARC42, U.K., 1993.
5. M.S.Aksoy "Description and Complete listing of COSINE: A combined system for inductive and neural learning", University of Wales College of Cardiff, ELSYM, Technical Note ARC43, U.K., 1993.

#### **E. Research Projects**

1. "Developing a General Purpose Shell for Automatic Knowledge Acquisition", a funded Research Project by Research Center, King Saud Univ. CCIS, 2004-2005.
2. "Developing a General Purpose System For Visual Inspection Using Inductive Learning", a funded Research Project by Research Center, King Saud Univ. CCIS, 2005-2006.
3. "COSINE: A Combined System for Inductive and Neural Learning", a funded Research Project by Research Center, King Saud Univ. CCIS, 2005-2006.
4. "A Novel Idea of Translation Matrix to Achieve Service Continuity and Mobility Management across Heterogeneous 4G Wireless Networks", National Plan for Science, Technology and Innovation, King Saud University, CCIS, 2010 –2015

#### **F. Conference Activities**

I have been a Member of International Program Committee/Technical committee for the following conferences:

1. IMS 98, International Symposium on Intelligent Manufacturing Systems, Sakarya University, Sakarya Turkey, August 6-7, 1998.
2. Visions for the Future, 3rd International Symposium on Intelligent Manufacturing Systems, Sakarya University, Sakarya, Turkey, August 30-31, 2001.
3. ICRM 2002 , 2nd International Conference on Responsive Manufacturing , Gaziantep University, Gaziantep Turkey, June 26-28, 2002.
4. IMS 2004: 4th International Symposium on Intelligent Manufacturing Systems, Sakarya University, Sakarya, Turkey, September 6 – 8, 2004.
5. Second International Industrial Engineering Conference, IIEC-2004, King Saud

- University, Riyadh , Saudi Arabia, December 19 - 21, 2004
6. IMS'2006: 5th International Symposium On Intelligent Manufacturing Systems, Agents and Virtual Worlds, May 29-31, 2006, Sakarya, Turkey.
  7. The International Conference on Information Technology ICIT 2007, Al-Zaytoonah University, May 9-11 , 2007, Amman, Jordan.
  8. International Conference on Knowledge Generation, Communication and Management, KGCM 2007, July 8-11, 2007, Orlando, Florida, USA.
  9. Reviewer for IIS09, International Industrial Informatics Seminar 09, Yogyakarta, Indonesia, 15 August, 2009.
  10. Reviewer for The 15th World Multi-Conference on Systemics, Cybernetics and Informatics: WMSCI 2011, July 19<sup>th</sup> - July 22<sup>nd</sup>, 2011 – Orlando, Florida, USA.
  11. Member of technical Committee of IEEE- ICET:International Conference on Emerging technologies 2011, 5-6 September, Islamabad, Pakistan.
  12. Member of Program Committee: IDREC 2012 : International Symposium on Interdisciplinary Research, Education, and Communication in the Context of The 3rd International Multi-Conference on Complexity, Informatics and Cybernetics: IMCIC 2012 March 25<sup>th</sup> - 28<sup>th</sup>, 2012 - Orlando, Florida, USA.
  13. Member of Program Committee: KGCM 2013: The SPRING 7th International Conference in Knowledge Generation, Communication and Management in the context of The 4th international Multi-Conference on Complexity, Informatics and Cybernetics: IMCIC 2013 March 19 - 22, 2013 - Orlando, Florida, USA.
  14. Member of Program Committee: IMCIC 2013: The 4th International Multi-Conference on complexity, Informatics and Cybernetics. Jointly with the 19th International Conference on Information Systems Analysis and Synthesis: ISAS 2013 and the 11th International Conference on Computing, Communications and Control Technologies: CCCT 2013 March 19 - 22, 2013 - Orlando, Florida, USA
  15. Member of Program Committee: The 2nd International Symposium on Collaborative Enterprises: CENT 2012: Collaborative Development and Engineering Driving Innovation in the context of The 16<sup>th</sup> World-Multi-Conference on Systemics, Cybernetics and Informatics: WMSCI 2012 July 17<sup>th</sup> - 20<sup>th</sup>, 2012 – Orlando, Florida, USA.
  16. Member of Program Committee: The 16th World Multi-Conference on Systemics, Cybernetics and Informatics: WMSCI 2012, July 17<sup>th</sup> - 20<sup>th</sup>, 2012 – Orlando, Florida, USA.
  17. Member of Program Committee: The 3rd International Symposium on Collaborative Enterprises: CENT 2013 Collaborative Development and Engineering Driving Innovation in the context of The 17<sup>th</sup> World-Multi-Conference on Systemics, Cybernetics and Informatics: WMSCI 2013, July 09 - 12, 2013 – Orlando, Florida, USA.
  18. Member of Program Committee:The 17th World Multi-Conference on Systemics, Cybernetics and Informatics: WMSCI 2013, July 09 - 12, 2013 – Orlando, Florida, USA.
  19. Member of Program Committee: Special Track on Science 2 and Expansion of Science: S2ES in the context of The 17th World-Multi-Conference on Systemics, Cybernetics and Informatics: WMSCI 2013, July 09 - 12, 2013 – Orlando, Florida, USA.
  20. Member of Program Committee: The SUMMER 7th International Conference on Knowledge Generation, Communication and Management: KGCM 2013 in the context of The 17th World Multi-Conference on Systemics, Cybernetics and

- Informatics: WMSCI 2013, July 09 - 12, 2013 – Orlando, Florida, USA.
21. Member of Scientific Committee: 2013 European Conference of Technology and Society, International University of Sarajevo, Bosnia-Herzegovina 27-28 June 2013
  22. Member of Programme Committee: The International Symposium on Cognition/Knowledge Science and Engineering: CKSE 2013, July 9 - 12, 2013 – Orlando, Florida, USA.
  23. Member of Technical Program Committee: FIT 2013: 11th International Conference on Frontiers of Information Technology, December 16-18, 2013, Islamabad, Pakistan.
  24. Member of Program Committee 17th World Multiconference on Systemics, Cybernetics and Informatics (WMSCI 2013).
  25. Member of Program Committee 18th World Multiconference on Systemics, Cybernetics and Informatics (WMSCI 2014)

### ***Supervision of MSc and PhD students***

I have been supervising many M.Sc. and Ph.D. students in Sakarya University, Sakarya Turkey, and in King Saud University, Riyadh, Saudi Arabia, since 1994 in Computer Engineering, Information Systems, Electrical Electronic Engineering and Industrial Engineering departments.