AHMAD ABDOLLAHZADEH BARFOROSH

Professor

Curriculum Vitae

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Name: Ahmad Abdollahzadeh Barfourosh.
Nationality: Iranian.
Date of Birth: 16 October 1953.
Marital status: Married.
University Address: Amirkabir University of Technology, (Tehran Polytechnic), P. O. Box 15875-4413, Tehran, Islamic Republic of Iran.
Email: ahmad@ce.aut.ac.ir
Mobile Tel: +98-912--1482274
University Telephone: +98-21-64542733
University Fax: +98-21-66495521

Education and Qualifications

Secondary school: 1969-1972, The Alborz High School, Tehran, Iran.

Degree: 1972-1975, B.Sc., University of Tehran.

> **Major:** Accounting, **Minor:** Mathematics.

Postgraduate Degree

1978-1980: Master of Science in Computer Science, West Coast Universities, Los Angeles, Calif., U.S.A.,

Major: Information Systems, Minor, Application Programming. 1987-1990: Ph.D. in computer science, University of Bristol, England,

Ph.D. Research Project

The Research project was concerned with the principles of multi-site information retrieval systems and, as part of this work, a multi-library inquiry system was being implemented and its performance evaluated. The work involves problems of knowledge assimilation in a concurrent environment.

Abstract

It is becoming increasingly common for the Users of Information Systems to Formulate queries, which can only be answered by accessing a number of different databases, Either locally or remotely. Advances in Networking Capabilities Mean that access to Remote database is Generally a straight forward Matter but Less Attention has been Paid to the Problems of Generating Appropriate Requests, Receiving and Collecting the Responses in a Convenient form for the User.

The System Shows how to Extract Data from Heterogeneous Distributed databases and then how to Edit the Results in Such a way that the Inquirer can Easily Understand the Results. The procedure uses the joint Academic Network JANET to Access Academic Libraries Located Throughout the U, K.

The Questions are posed in a user-friendly way and these are translated to suit each database using its Protocol before they are forwarded to the database. The Final Results are also presented in a user-friendly Fashion. Several Tasks are Important in the Design and Implementation of a Multi database Inquiry Service (MDB-ES). One of the Crucial Stages in the Development of the MDB-ES is the Extraction of the Relevant Data from the Responses that the System has obtained after Remote Communication with Selected databases and Correctly Combining the Partial Results from Individual Queries into a single Answer. Obviously we cannot Assume that the Remote Systems after the user Relevant Items Only many Retrieval Systems (Especially Library Ones) use Abbreviations with the Result that they Provide Partial or Wrong Information, Although this is not Necessarily a Major Problem where the user can adopt a "Browsing" Approach.

It has also been Necessary to Consider the Problem of Designing a Knowledge Acquisition System (KAS) which Elicits, Analyses and Interprets the Responses which have been Obtained from Remote database.

One of the Major Problems in the Knowledge Acquisition area Concerns Missing Information and the Inability to Cope with this Satisfactorily has been one of the Causes of the Lack of Success of Some Information Systems Currently Available.

Particular Attention has been paid to this Problem in the work Presented here, both Indetermining what Information is Missing and how this can be handled.

The system is written in such a way that it can easily be expanded to Cope with Additional database, which use new protocols. The model Described is sufficiently general to be applied to any kind of database, it is not restricted to bibliographic Database. A Formal Specification in VDM is also presented.

Software was written in PROLOG on a UNIX system, with partial C programming embedded and particular attention paid to ensure portability.

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Publications

Conference Papers

Papers in English

2004- Now

1. F. Goshen, A. Abdollahzadeh, "A New Approach for Tracing Quality Attributes in Service Oriented Architecture Using Graph Transformation Systems", 14th international CSI Computer Conference

(CSICC2009), Amirkabir University of Technology, Tehran, Iran, 2009.

2. E. Delpishe, A. Abdollahzadeh, "Evaluation criteria for data mining systems", Italia, 2009.

3. A. Sebti, A. Abdollahzadeh, "A new word sense similarity measure in wordnet", Multi International Conference of Computer Science & Information Technology, Poland, 2008.

4. M. Kheirkhah, A. Abdollahzadeh, "A Hybrid algorithm for the Vehicle Routing Problem", IEEE CEC, Hong Kong, 2008.

5. M. Kheirkhah, A. Abdollahzadeh, "A Hybrid algorithm for the Vehicle Routing Problem", IEEE CEC2008, Hong Kong, 2008.

6. M. Kheirkhah, A. Abdollahzadeh, "A Hybrid algorithm for the Vehicle Routing Problem", IEEE CEC2008, Hong Kong, 2008.

7. H. Morshedlou, A. Abdollahzadeh, "A classifier integration method for improvement of classification accuracy", The 3rd International Computer Engineering Conference (ICENCO2007), Egypt, 2007.

8. P. Jaferian, A. Abdollahzadeh, "Modeling Trust Management at Architecture Level Using UML", 6th International Conference on Computer Science and Information Technologies, Yerevan, Armenia, 2007.

9. P. Salehi, P. Jaferian, A. Abdollahzadeh, "Modeling Secure Architectural Connector with UML 2.0", The International Multi Conference of Engineers and Computer Scientists, IAENG, Hong Kong, 2007.

10. A. Nematzadeh, V. Kazempour, P. Salehi, P. Jaferian, A. Abdollahzadeh, "Modeling Architectural Access Control with UML 2.0", IPM, Tehran, Iran, 2007.

11. S. Soltani, A. Abdollahzadeh, "OILSW: A New System for Ontology Instance Learning in Semantic Web", ICSD, India, 2007.

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13. M. Kheirkhah, A. Abdollahzadeh, "AKU SLR(1) An efficient algorithm for SLR(1) grammar recognition", The 3rd International Computer Engineering Conference- ICENCO 2007, Egypt, Dec. 2007.

14. Gh. Deshmeh, A. Abdollahzadeh, "Classification of Horizontally distributed data using cooperative agents and correlation - based region - specific partnership score", International Conference on Data Mining & Application- ICDMA 2007, Hong-Kong, March 2007.

15. N. Daneshpour, A. Abdollahzadeh, "AuT- QPM The framework to justify data warehouse systems", International Conference on Data Mining & Application- ICDMA 2007, Hong-Kong, March 2007.

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17. A. Rasoolzadegan, R. Alesheykh, A. Abdollahzadeh, "A new approach for Event Triggering Probability Estimation in Active Database Systems to Rule Scheduling Improvement", 2nd IEEE International Conference on Information & Communication Technologies: From Theory To Applications, Damascus, Syria , April 24 - 28, 2006.

18. A. Rasoolzadegan, R. Alesheykh, A. Abdollahzadeh, " Measuring Evaluation Parameters in Benchmarking Rule Scheduling Methods in Active Database Systems", The IEEE International Conference on Computer and Communication Engineering (ICCCE'06) , Kuala Lumpur, Malaysia, May 9-11, 2006.

19. G. Elahi, A. Abdollahzadeh, "A New Approach to Requirement Engineering for Knowledge Based Systems", The Eighteenth International Conference on Software Engineering and Knowledge Engineering (SEKE'06), 2006.

20. P. Jaferian, A. Abdollahzadeh, "AES-AKU: A New Framework for Classification and Selection of Software Architecture Evaluation Methods", 4th CSIT Conference, Amman, Jordan, 2006.

21. R. Alesheykh, A. Abdollahzadeh, "Evaluation and Comparison of Rule Scheduling Approaches in Active Database Systems", in Automation, Control and Applications (ACI □ACA 2005) conference, Novosibirsk, Russia, June 20-24, 2005.

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24. A. Jamshidifar, A. Afshar, A. Abdollahzadeh, "Agent-based Modeling and Optimization of GAS Transmission

Network", in 11th IEEE International Conference on Methods and Models in Automation and Robotics, Poland, 29 August-1 September 2005.

25. V. Hakami, A. Abdollhzadeh, "Product-Focused Process Elicitation for Mobile Application Systems: A Wireless News Browser Case", in The 9th IASTED International Conference on Software Engineering and Applications, Phoenix, USA, 14-16 November 2005.

26. A.Abdollahzadeh, M. Babaie, "A New Design for Inter-Process Communications in the Intelligent Operating Systems", ICT2004, Thailand, assumption university, Nov 18,19 2004.

27. A.Abdollahzadeh, M. Babaie, "A New Intelligent Operating System Design", ICCI2004, Istanbul-Turkey, 17-19 Desember 2004.

28. M. R. A. Shirazi, A. Abdollahzadeh, "Formulating Flexibility in Automated Negotiation Systems", ICCI2004, Istanbul-Turkey, 17-19 Desember 2004.

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Information Technology (ACIT2003), Egypt-Alexandria, 2003.

45. A. Abdollahzadeh, S. Vafadar, "Ex-MaSE: An Extended and Expressive Multiagent System Engineeing", Arab Conference on Information Technology (ACIT2003), Egypt-Alexandria, 2003.

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53. M.R. A. Shirazi, A. Abdollahzadeh, "Agent-based Software Engineering as a Layered Technology", Proceedings of Agents for Information Management Workshop (AIM 2002), EurAsia-ICT 2002 AIM Workshop Shiraz, Iran, 2002.

54. S. Pourazin, A. Abdollahzadeh, "FLEng, the Flexible Inference Engine", in 18th IASTED International Conference in Applied Information, Austria, 2000.

55. M. Shamsfard, A. Abdollahzadeh,"A Basis for Evolutionary Ontology construction", in 18 IASTED International Conference in Applied Information, Austria, 2000.

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57. S. Danashi, A. Abdollahzadeh Barfoursh, "Site Failure Detection in Distributed DataBase", Proceeding of the Third, Iranian Electrical Engineering Conference May-1994. Science and Technology University, Tehran-Iran.

58. S. Danashi, A. Abdollahzadeh Barfoursh, M. R. Meybodi, "Increasing Availability in Replicated Distributed DataBase System", Proceeding of the Second Iranian Electrical Engineering Conference, May-93, Tarbiat Modarres University, Tehran- Iran.

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Research Colloquium on Information Retrieval, Hudders field U.K., 1989.

Papers in Persian (Farsi)

۱۳۸۲ تاکنون

۱. ف. گلشن، ا. عبداله زاده بارفروش، "اندازه گیری کیفیت در معماری سرویس گرا"، در مجموعه مقالات چهاردهمین کنفرانس سالانه انجمن کامپیوتر ایران، دانشگاه صنعتی امیرکبیر، اسفند ۱۳۸۷.

۲. م. سهرابی، ا. عبداله زاده بارفروش، "الگوکاوی در پایگاه های تراکنش با ابعاد بالا براساس رویکرد شمارش از پایین به بالای ماتریس بیتی"، در مجموعه مقالات چهاردهمین کنفرانس سالانه انجمن کامپیوتر ایران، دانشگاه صنعتی امیرکبیر، اسفند ۱۳۸۷.

۳. ع. رسول‌زادگان، ا. عبداله زاده بارفروش، "ارائه روش جدید زمانبندی قواعد در پایگاه داده پویا برمبنای بهبود فرایند تخمین احتمال اجرای قواعد"، در مجموعه مقالات سومین کنفرانس فناوری اطلاعات و دانش (IKT2007)، دانشگاه فردوسی مشهد، ۱۳۸۶.

۴. ش. کاظمی، ا. عبداله زاده بارفروش، "مدل مارکوف ترکیبی برای پیش بینی رفتار پیمایشی کاربر در وب"، اولین کنفرانس داده کاوی ایران، تهران - دانشگاه صنعتی امیرکبیر، آبان ۱۳۸۶.

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5. "Advance Topic in Natural Language Understanding", Lecture Notes for Ph.D. Course, spring 1997, Amirkabir University of Technology.
6. "Advance topic in Decision Support Systems", Lecture Notes for Ph.D. Course Spring 1998, Amirkabir University of Technology.
7. Introduction to Expert Systems, Book in Progress.
8. "Business Intelligence""Lecture notes for Msc course, 2005, Computer Engineering Faculty, Amirkabir University of Technology. Book in Progress.

Memberships

2006-Now: Member of the Information Committee of the Machine Translation.

2006-Now: Director of Software group ,Computer Engineering Faculty, Amirkabir University of Technology.

2006-Now: Secretary of E-business, IT, and Telecoms Iranian National Committee.

2006-Now: Member of Basic Softwares group, Information Technology Committee of Country

1998-Now: Director of Research activity, Computer Engineering Faculty, Amirkabir University of Technology.

1996-Now: Member of scientific Board of the second Iranian Computer Society conference, Amirkabir University of Technology Tehran, Iran.

1995-Now: Scientific Reviewer of Best Scientific Computer Book, Ministry of Culture and Guidance, Tehran-Iran.

1994-Now: Scientific Reviewer of Papers at the Iranian Computer Society Conference.

1994-1996: Director of AI Educational Group, Computer Engineering Faculty, Amirkabir University of Technology.

1993-Now: Member of Iranian Computer Society Tehran-Iran.

1992-Now: Scientific Reviewer of Papers at the Electrical Engineering Conference, Tehran, Iran.

1991-Now: Voting Member of ACM.

1990-Now: Scientific Consultant of Graduate Computer Science and Engineering Students Abroad, Ministry of Higher Education, Tehran-Iran.

1990-Now: Member of Graduate Projects Committee Computer Engineering Faculty, Amirkabir, University of Technology.

Work Experiences

Educational Experiences

2010: Membership of Scientific committee of 1st IICTC (Iran Information and Communication Technology Congress).

2010: Membership of Scientific committee of 15th International CSI Computer Conference.

2009: Scientific committee chair of 14th International CSI Computer Conference, Amirkabir University of Technology.

2008-Now: Professor, Computer Engineering Faculty in Amirkabir University of Technology.

2005-Now: Membership of Editorial Board of Amirkabir journal of Science & Technology.

2002-2003: Visiting Professor in Computer Engineering Department, University of Meryland, Colleague Park.

2001-2002: Visiting Professor in University of Paris 11, ORASY University.

1990-2008: Associated Professor, Computer Engineering Faculty in Amirkabir University of Technology.

1980-1990: Researcher, Ministry of Higher Education, Iran Tehran. The Duties Included Mathematical Modeling and Statistical Surveys of Overseas Students.

Industrial Experiences

2009-Now: Member of board of directors of Iranian Electronic Commerce Association.

2009-Now: Member of founding board of Iranian Electronic Commerce Association.

2002-Now: Chief Consultant of E-Commerce meta project in ministry of E-commerce.

2002-Now: Head of monitoring team for E-Commerce projects in ministry of E-commerce.

1999- 2002: Director of Software Quality Assurance Division in Alborz Computer Company, Tehran, Iran.

1990-1999: Software Consultant and Director of Software Development Division in Iran-Argham Co. (AT&T, NCR Representative in Iran).

1990-1995: Project manager of Natural Health Care System, IRAN-ARGHAM Co.

1983-1990: Director of a Self-Established Software Company RAYANEH, Which was Founded in Late 1982.As a Software house, the company Consultant More   Than 25 Factories to Assist Computerization of their Financial and Management Activities.

1982-1986: Project manager of ARZ system (Computerize System to manage currency transfer to Iranian student abroad)

1982-1985: Project manager of KONKOR (National Examination to start higher Education).

1982-1983: Acting Director of Graduate Division Ministry of higher education.

Skills & Areas of Interest

System Analysis, End-User Computing, Accounting and Management Information systems, Decision Support System, Databases, RDBMS, Case Tools, Software engineering, methodology and standard (SSADM, IEEE, ISO- 9000), Artificial Intelligence, Natural language processing (NLP), Expert Systems, Knowledge Engineering, DSS, Knowledge Representation Systems, AI techniques, Distributed AI.