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IEEE Senior Member (No: 41401827)
IEEE Women In Engineering (WIE) Committee Chair, IEEE Iran Section
Vice-Rapporteur for Q7, ITU-D SG1

Education

Ph.D in Computer Engineering- Artificial Intelligence from School of ECE, College of Engineering, University of Tehran, Tehran, Iran, Sep.2008- Jan. 2014.

Thesis Title: Intelligent Organization of Learning Contents Using Optimally Pre-experienced Contents
Supervisors: Dr. Fattaneh Taghiyareh, Dr. Babak N.Arabi

M.Sc. in Computer Engineering (Software), Iran, Sep. 1999- Jan. 2001.

Thesis Title: Evaluation of Image Processing Algorithms in Edge Detection
Supervisors: Dr.Mahmoud Fathy, Dr.Mohsen Sharifi

B.Sc. in Computer Engineering (Software), Iran, Sep.1992-Jun.1996.

Thesis Title: Discrete Mathematics and its Application in Computer Sciences
Supervisor: Dr.Mirmozafar Masoumi

B.A. in Business Management, Iran, Sep.1998-Jun. 2002

Professional Experience

IEEE Senior Member, Since 2014

IEEE Women In Engineering (**WIE**) **Committee Chair**, IEEE Iran Section, since 2017

Focal Point for ITU from ICT Research Institute as Academia Member of ITU, since 2017

Vice-Rapporteur for Q7, ITU-D SG1

Researcher, Research Manager & Member of Scientific Board of IT Research Faculty, ICT Research Institute since 2001.

Deputy of IT Research Faculty, ICT Research Institute 2017-2019.

Teaching 5 graduate & 20 Undergraduate Courses in Electrical & Computer Engineering, Iranian Universities since 2000.

Iranian e-learning association newsletter (YADA) editor in Chief since 2014.

E-Learning Association Board Member, Treasurer since 2015.

Other Certificates

- § Toefl Internet-based (iBT), 2007
- § ICDL (Complete Courses in Computer), 2004
- § Accepted in recruitment test in Iran, 2004
- § Managing Certificate of Establishing a Computer School from Ministry of Labor, 2000
- § MCHE, English test of Ministry of Science and Higher Education, 1997
- § F.C.E, O.Level, C.P.E, A.Level, Simin Educational Association, Iran, 1991-1997

Awards

- § Best Session (SINTEL 2017) in INISTA 2017.
- § European Union Erasmus Mundus Scholarship, 2012.
- § Top Student in Ph.D.
- § Top student in M.Sc.
- § Top student in B.Sc.
- § First rank award as “selected woman” at the accession of Birth of Hazrat Fatemeh, 2007.

Professional Memberships

IEEE Senior member Since 2014
IEEE Women in Engineering (WIE) Committee Chair, IEEE Iran Section, Since 2017
E-Learning Association Board Member, Treasurer, 2015-2019
IEEE Women in Engineering (WIE) Committee Member, since 2014
IEEE Women in Engineering Since 2004
IEEE Education & E-learning Since 2012
IEEE Computer Society Member Since 2002
IEEE Member Since 2001
ACM (Association for Computing Machinery) Member Since 2007
Member of Scientific Board of IT Research Faculty at Iran Telecom Research Center Since 2005
Member of E-learning Society Since 2012
Member of Computer group in Academy of Persian Language & Literature, 2003-2004
Member of Virtual Universities Committee Since 2003
Iranian Students Authors and Translators Association, 1999-2000
Computer Society of Iran Member Since 1997

Publications

1. “*General Mathematics*”, University Text-Book, Prof.A.Shidfar, M.T.Mahmoudi, A.Shahrezaee, Dalfak Publications, 1998
2. “*Introductory Mathematics*”, University Text-Book, Prof.A.Shidfar, M.T.Mahmoudi, A.Shahrezaee, Dalfak Publications, 1999
3. “*Shirin’s mathematics*”, Graphical Designer: M.T.Mahmoudi, Dalfak Publications, 1999

4. "Clustering", Prof. K.Badie, M.T.Mahmoudi, J.A.Moghaddam, L.Sadeghi, Daricheh Pub. & Iran Telecom Research Center, 2005
5. "Strangification: A New Paradigm in Knowledge Processing & Creation", K.Badie and M.T.Mahmoudi, Peter Lang Publication, Germany, 2007.
6. Translation of "Augmented Reality for Android Application Development", by M.T.Mahmoudi, Arad Book Pub., 2017.

Book Chapters

1. K.Badie, M.T.Mahmoudi, "Frameworks for Creating Knowledge through Strangification", Culture & Knowledge Series, Vol.5, Verfremdung-Strangification, Peterlang, Austria, pp.155-170, 2006.
2. K.Badie, M.T.Mahmoudi, "Computational Generation of Scientific Contents in Farsi Language based on Concept Composition Approach", Samt Publication, Iran, 2007.
3. K. Badie, M. T. Mahmoudi, "Creating Wisdom through Cultural Interactions – A Strangification-Driven Perspective", Wallner, Fritz G. / Schmidsberger, Florian / Wimmer, Franz Martin (eds.), Intercultural Philosophy, New Aspects and Methods, Culture and Knowledge series, Vol. 11, Peter Lang, Pub., 2010.
4. K. Badie, M. T. Mahmoudi, "Capturing Insight & Wisdom through Making Resonance Between the Patterns of Differing Knowledge Systems", in Culture and Knowledge Series, Peter Lang Pub., 2011.
5. K. Badie, M. Kharrat, M. T. Mahmoudi, M. S. Mirian, T. M.Ghazi, S. Babazadeh, "Ontology-Driven Creation of Contents: Making Efficient Interaction between Organizational Users and Their Surrounding Tasks", Chapter 10 in Book of User Interface Design for Virtual Environments: Challenges and Advances (Editor:Badrul H. Khan), Information Science Reference, IGI Global USA, 2011.
6. K. Badie, M. T. Mahmoudi, M. Kharrat, "Ontology-Driven Generation of Guidelines for Content Creation Purposes", Encyclopedia of Information Science and Technology, IGI GLOBAL, 2015.

Journal Papers

1. M.T.Mahmoudi, K.Badie, N.Reyhani, and J.A.Moghaddam, "Mathematical/ Logical Structure of Pedagogical Text", International Journal of Pure and Applied Mathematics, Volume 12, No.1, 2004, pp. 49-60.
2. M.Kiani, K.Badie, and M.T.Mahmoudi, " Using a Two-Layered Case-Based Reasoning for Generating Scientific Techniques", WSEAS Transactions on Information Science and Applications, Issue 1, Volume 1, July 2004, pp. 144-149.
3. K.Badie, and M.T.Mahmoudi, " Correlation Justification as an approach to generating new ideas", WSEAS Transactions on Information Science and Applications, Issue 2, Volume 1, August 2004, pp. 712-716.

4. M.T.Mahmoudi, K.Badie, M.Kharrat, "Text Organization via Projection from Researcher-Space onto Text-Space", *Kybernetes (The International Journal of Systems, Cybernetics and Management Science)*, Vol. 37, Issue 8, 2008. **(ISI Journal)**
5. M.T.Mahmoudi, K.Badie, M.Kharrat, F.Badie, "Mathematical Processes: A viewpoint-oriented manipulation perspective", *World Applied Sciences Journal*, Vol.4, No.6, pp.812-815, 2008. **(ISI Journal)**
6. K.Badie, A.Moini, M.T.Mahmoudi, M.Rahnamafard "A New Architecture for Organizational Content Management for Consultancy Enterprise", *Technical Industrial Engineering*, Vol.44, No.2, 2010, pp.141-152.
7. M. T. Mahmoudi, F. Taghiyareh, B. N. Araabi, "An Ontology-based Framework for Organizing Research Support Contents in E-Learning Environment", *Intl. Journal of Information & Communication Technology*, Tehran, Iran, Vol.3, No.1, Jan 2011.
8. M.A.Ghaderi, N. Yazdani, B. Moshiri, M.T.Mahmoudi, "Customizing Feature Decision Fusion Model using Information Gain, Chi Square, and Ordered Weighted Averaging for Text Classification", *Intl. Journal of Information & Communication Technology*, Tehran, Iran, Vol. 3, No.2, March 2011.
9. M. H. Sowlat, H. Gharibi, M. Yunesian, M. T. Mahmoudi, S. Lotfi, "A novel, fuzzy-based air quality index (FAQI) for air quality assessment", *Atmospheric Environment*, Vol. 45, 2011. **(ISI Journal)**
10. K. Badie , M. T. Mahmoudi, N. Rostamzadeh, "A Fuzzy Fusion Framework for Generating Purpose-Oriented Texts", *International Journal of Fuzzy Systems (IJFS)*, (submitted)
11. M. T. Mahmoudi, F. Taghiyareh, N. Forouzideh, C. Lucas, "Evolving artificial neural network structure using grammar encoding and colonial competitive algorithm", *Journal of Neural Computing & Applications*, May 2013, Volume 22, Issue 1, pp. 1-16, Springer, ISSN 0941-0643, DOI 10.1007/s00521-012-0905-6, April 6, 2012.
12. M. T.Mahmoudi, M. Beheshti, F.Taghiyareh, K. Badie, C. Lucas, , "Content-based Image Retrieval using OWA Fuzzy Linking Histogram", *Journal of Intelligent & Fuzzy Systems*, Vol. 24, No.2, pp. 333-346, 2013, DOI:10.3233/IFS-2012-0557 **(ISI Journal)**
13. K.Badie, M.T.MAHmoudi, M.Kharrat, "A Framework for Formulating the Relations between Research Constituents from the Viewpoint of Knowledge Promotion Cycle, *Fasnameh Siyasat*, Tehran University, Vol.1, No.1, Spring 2013.
14. M.T.Mahmoudi, F.Taghiyareh, B.N.Araabi, "A Neuro-Fuzzy Immune Inspired Classifier for Task-Oriented Texts", *Journal of Intelligent & Fuzzy Systems*, Vol.25, No.3, pp. 673-683 , 2013. DOI: 10.3233/IFS-120674 **(ISI Journal)**
15. M. T. Mahmoudi, M. Peyvast, M. Mohseni, M. Kharrat, K. Badie, "Ontology-Based Upgradation of Entrepreneurship Skills Using Educational Portals", *Journal of Information & Communication Technology*, Vol.4, No.11-12, 2012.
16. M.T.Mahmoudi, F.Taghiyareh, "A Semantic Domain-Specific Framework to Assist Researchers in Screening Contents", *Intl. Journal of Information & Communication Technology Research*, Vol.6, No.1, Winter 2014, Tehran, Iran.

17. M. T. Mahmoudi, F. Taghiyareh, K. Badie, "A Semantic Rule-based Framework for Efficient Retrieval of Educational Materials", *The Electronic Journal of E-Learning*, Volume 11, Issue 3, 2013, pp182-192.
18. T. M. Ghazi, M. T. Mahmoudi, M. Mohseni, M. Kharrat, "A New Framework for Evaluating Quality in E-Learning", *Journal of Information Engineering* (Submitted)
19. M. T. Mahmoudi, S. Mojtahedi, S. Shams, "AR-based value-added visualization of infographic for enhancing learning performance", *Computer Applications in Engineering Education*. 2017; 1–15. <https://doi.org/10.1002/cae.21853>. (ISI Journal)
20. K. Badie, N. Asadi, M. T. Mahmoudi, "Zone identification based on features with high semantic richness and combining results of separate classifiers", *Journal of Information and Telecommunication*, Taylor & Francis Group, 2018. DOI:10.1080/24751839.2018.1460083.
21. N. Asadi, K. Badie, M. T. Mahmoudi, "Automatic Zone Identification in Scientific Papers via Fusion Techniques", *Scientometrics* 119(2), 2019. (ISI Journal)
22. M. T. Mahmoudi, K. Badie, M. H. Moosae, A. Souri, "A Compositional Adaptation-Based Recommender System for Selecting Learning Resources in Software Development", submitted to *International Journal of Artificial Intelligence in Education*, 2019.
23. M. T. Mahmoudi, F. Z. Zeraati, P. Yassini, "Color Sensing AR-Based Approach for Supporting Language Learning in Children", submitted to *Journal of Computer Assisted Learning*, 2019.

Conference (Full) Papers printed

1. M. Fathy, M. Sharifi and M. Tayefeh Mahmoudi, "An Experimental Comparison of commonly used Edge Detectors", *The 2002 International Conference on Imaging Science, Systems and Technology (CISST'02)*, The 2002 International Multiconference On Computer Science, CSREA Press, Las Vegas, USA, June 24-27, 2002.
2. M. Sharifi, M. Fathy and M. T. Mahmoudi, "A Classified and Comparative Study of Edge Detection Algorithms", *Proceedings of the International IEEE Computer Society Conference on Information, Technology: Coding and Computing (ITCC 2002)*, The Orleans, Las Vegas, Nevada, USA, April 8-10, 2002.
3. M. T. Mahmoudi, "A Comparative Study of Edge Detectors for Lane Detection", *The 2003 International Conference on Imaging Science, Systems and Technology (CISST'03)*, The 2003 International Multiconference On Computer Science, CSREA Press, Las Vegas, USA, pp.526-530, June 23-26, 2003.
4. M. T. Mahmoudi & K. Badie, "An Approach to Organizing Texts Based on a Projection from Hybrid Text-Researcher Space onto Ability Space", *Proceedings of the International Conference on Emerging Technologies (ICET'03)*, Minneapolis, USA, Aug 25-26, 2003.

5. K.Badie & M.T.Mahmoudi, "Enhancement of research abilities/skills as an e-learning service in cyber-learning environment", First International conference on Information & Knowledge Technology (IKT2003), Iran, Dec30, 2003-Jan 1, 2004.
6. M.T.Mahmoudi & K.Badie, "An Approach to On-line Text Generation for E-learning purposes", ITCC2004, IEEE Intl. Conf. on Information Technology: Coding & Computing, Las Vegas, USA, April 5-7, 2004, pp.786-789.
7. K.Badie, M.T.Mahmoudi & M.Kiani, "An Approach to Generating Scientific Techniques Based on Compositional Adaptation", CSICC'2004, 9th CSI Computer Conference, Sharif University, Tehran, Iran, Feb. 17-19, 2004.
8. K.badie & M.T.Mahmoudi , "Soft computing aspects of mapping and assessment issues in pedagogical text generation", WAC2004, World Automation Congress, Seville, Spain, June 28-July 1, 2004.
9. K.Badie, M.T.Mahmoudi & N.Reyhani, "Generating new techniques based on composition of previously-experienced cases", WAC2004, World Automation Congress, Seville, Spain, June 28-July 1, 2004.
10. K.Badie, M.T.Mahmoudi, "On-line generation of cyber-contents through iterative composition of concepts", WITID2004, Workshop on information, technology & its disciplines, Kish Island, Iran, Feb 24-26, 2004.
11. M.T.Mahmoudi & K.Badie, "Content determination for composite concepts via combining attributes' values of individual frames", IKE'04, Intl. Conf. On Information & Knowledge Engineering, Las Vegas, USA, Jun 21-24, 2004.
12. K.Badie & M.T.Mahmoudi, " An approach to generating new ideas based on linking frames of concepts", ECCBR'04, Computational creativity workshop, 7th European Conf. In Case-based reasoning, Madrid, Spain, Aug 30- Sep 2, 2004.
13. K.Badie & M.T.Mahmoudi, "Generating composite theories based on linking frames of concepts", SMI'05, Semantic Model Integration workshop, 3rd Conference Professional Knowledge Management Experiences and Visions, Germany, 2005.
14. K.Badie, M.T.Mahmoudi, M.Yadollahi & J.A.Moghaddam, "A Knowledge Processing Framework for Supporting Strategic Planning in Industrial Organizations", ITIS 2004, 1st National Conference on Iran Informational and Industrial Technology, Yazd, Iran, Oct 6-7, 2004. (Best paper of the conference)
15. K.Badie, M.T.Mahmoudi, J.A.Moghaddam, M.Yadollahi and F.Badie, "A Concept Composition DSS for online content generation", 2nd e-learning conference, Tehran, Iran, Jan 9-10, 2005. (Best paper of the conference)
16. K.badie & M.T.Mahmoudi , "Ontology–Driven Composition of Structured Concepts for Generating Knowledge in Learning/Research Environment", IKE'05, Intl. Conf. on Information & Knowledge Engineering, Las Vegas, USA, June 20-23, 2005.
17. M.T.Mahmoudi, M.Y.Khales, "A Decision Support System for On–Line Generation of Contents Based on Concept Composition", IKE'05, Intl. Conf. on Information & Knowledge Engineering, Las Vegas, USA, June 20-23, 2005.

18. K.Badie & M.T.Mahmoudi, "Research Management: An Essential Means for Creating Knowledge in Research Environments", Seminar on E-learning & Knowledge Management , Tehran University, Iran, Sep11-14, 2005.
19. K.Badie, M.T.Mahmoudi, J.A.Moghaddam & M.Yadollahi, " Concept Composition as a Means for Creating New Ideas to handle Complexities in Organizations", IKT2005, Information & Knowledge Technology Conference, Amirkabir University, Tehran, Iran, 2005.
20. K.Badie, M.T.Mahmoudi and M.Kharrat, "A Framework for Research Management with Knowledge Creating Capabilities", WITID2006, Workshop on information, technology & its disciplines, Isfahan, Iran, January 16-18 , 2006.
21. K.Badie, M.T.Mahmoudi, "Computational Frameworks for Compositional Method Generation as a Potential Methodology for Research", Intl. Conf. On Research Methodologies in Science, Engineering & Technology, Imam hosein university, 2006.
22. M.T.Mahmoudi, K.Badie and M.Y.Khales, "Composing Methods: An Approach to Generating New Methods for Complex Engineering Issues", WAC2006, World Automation Congress (WAC) 2006, International Symposium on Soft Computing for Industry (ISSCI), Special Session on Experience Mining & Management in Design, Control & Automation, BUDAPEST, HUNGARY, July 24-27, 2006
23. K.Badie, M.T.Mahmoudi, "A Perspective-Oriented Approach to for Information Mining & Its Contribution to Design, Control & Automation Issues", WAC2006, World Automation Congress (WAC) 2006, International Symposium on Soft Computing for Industry (ISSCI), Special Session on Experience Mining & Management in Design, Control & Automation, BUDAPEST, HUNGARY, July 24-27, 2006.
24. M.T.Mahmoudi, K.Badie, K.Neshatian, "An Ontological Model for Knowledge Management through Concept Composition", IEEE First International Conference on the Digital Society, EKNOW 2007, Guadeloupe, French Caribbean, January 2-6, 2007.
25. M.T.Mahmoudi, K.Badie, M.Yadollahi, "Content Personalization through Merging the Ontology Graphs of Content and User Model", HCI Intl.2007, Human-Computer –Interaction Intl. Conf. (Springer), Beijing, China, July 22-27, 2007.
26. K.Badie, M.T.Mahmoudi, "Some Recommendations for Knowledge-Based Design in Nano- Environments", (KMCM 2007) 2007 International Conference on Knowledge Management: Symposium on Composite Materials, Design and Production Symposium on Nanotechnology, Design and Engineering Symposium on Alternate Energy and Fuel Cell Technology , Düsseldorf (Germany), 3-6 July 2007.
27. K.Badie and M.T.Mahmoudi, "A Conceptual Understanding Framework for Content Interpretation based on Transferring from One Concept to Another Concept", 7th Conference of Linguistics, Allame Tabatabaai University, Tehran, 2007.
28. M.T.Mahmoudi, K.Badie, M.Kharrat, S.Babazadeh, "A Framework for Managing Research Activities based on Supply Chain Management", 1st Intl. Conf. on Supply Chain Management & Information Systems", Tehran Sep 2007.

29. M.T.Mahmoudi, K.Badie, S.Babazadeh, M.Kharrat, “An Approach to Organizational Architecture for Research Organizations based on Supply Chain Management (SCM)”, 3rd Conference on Information and Knowledge Technology, IKT 2007, Mashhad , Iran, 2007.
30. K.Badie, M.T.Mahmoudi, “View-Point Oriented Manipulation of Concepts: A Matching Perspective”, IEEE Second International Conference on the Digital Society, ICDS 2008, Sainte Luce, Martinique, February 10-15, 2008.
31. K.Badie. M.T.Mahmoudi, “A Computational Framework for Manipulating an Issue from the View-Point of Other Issues”, 14th International Congress of Cybernetics and Systems of WOSC – ICCS’08 ,Wroclaw, Poland, 9 – 12 September 2008.
32. Maryam Tayefeh Mahmoudi, Kambiz Badie, Mahmood Kharrat, Sogol Babazadeh, Mahmoud Yadollahi, “Content Personalization in Organizations via Composing a Source Content Model with User Model”, The 2008 World Congress in Computer Science, Computer Engineering, and Applied Computing WORLDCOMP’08,(July 14-17, 2008, Las Vegas,USA), The 2008 International Conference on Artificial Intelligence (ICAI’08: July 14-17, 2008)
33. K. Badie, M.T. Mahmoudi, M. Kharrat, “Learning to Manage Resources: A Major Concern for Engineering Expertise in the 3rd Millennium”, Engineering education in 2025, May 12-14, 2009.
- 34.K. Badie, M. Kharrat, M.T. Mahmoudi, M.S. Mirian, S.Babazadeh, T.M. Ghazi, “Creating Contents based on Inter-play Between the Ontologies of Content’s Key Segments and Problem Context”, The First International Conference on Creative Content Technologies (CONTENT 2009), November 15-20, 2009 - Athens/Glyfada, Greece.
- 35.M.T.Mahmoudi, N. Forouzideh, C.Lucas, F. Taghiyareh, “Artificial Neural Network Weights Optimization based on Imperialist Competitive Algorithm”, Seventh International Conference on Computer Science and Information Technologies, 28 September - 2 October, 2009, Yerevan, Armenia.
36. M. T. Mahmoudi, M. Baheshti, C.Lucas, F. Taghiyareh, “OWA Fuzzy Linking Histogram approach for Image Retrieval”, IEEE 7th Intl. Conf. on Computational Cybernetics (ICCC2009), November 26-29, 2009, Palma de Mallorca, Spain.
37. K. Badie, M. T. Mahmoudi, M. A. Ghaderi, “A Framework for Query Expansion Based on Viewpoint-Oriented Manipulation Of The Related Concepts”, (AMS2010) , Asia Modelling Symposium 2010, 4th Asia International Conference on Mathematical Modelling and Computer Simulation 26 – 28 May 2010, Kota Kinabalu, Sabah, Malaysia.
38. Kambiz Badie, Maryam Tayefeh Mahmoudi, “An Approach to Compositional Adaptation based on Merging Solution Graphs via Inexact Matching”, WORLDCOMP’10, The 2010 World Congress in Computer Science, Computer Engineering, and Applied Computing, USA
39. M. T. Mahmoudi, B. N.Araabi, K. Badie ,N. Forouzideh, “Classifying Content Mode of Organizational Texts Using Simple Neural & Neuro-Fuzzy Approaches”, (CONTENT 2010), The Second International Conference on Creative Content Technologies. CONTENT 2010. November 21-26, 2010 - Lisbon, Portugal.
40. M. Analoui, M.Beheshti, M.T.Mahmoudi, Z.Jadidi, “Tecno-Streams approach for Content-based Image Retrieval”, World Congress on Nature and Biologically Inspired Computing (NaBIC2010), Kitakyushu, Japan, Dec. 15-17, 2010.

41. M.T.Mahmoudi, F.Taghiyareh, B.N.Araabi, "A Framework for Organizing Research Support Content and Its Necessities in E-Learning Environment", 5th National and 2nd International conference on e-learning and e-teaching (ICELET2010), Dec. 1-2, 2010, Tehran, Iran.
42. M.A.Ghaderi, N. Yazdani, B. Moshiri, M.T.Mahmoudi," A New Approach for Text Feature Selection based on OWA Operator", Fifth Intl. Symp. on Telecommunications (IST2010), Dec. 4-6, 2010, Tehran, Iran.
43. N.Forouzideh, M.T.Mahmoudi, K.Badie, "Organizational Texts Classification Using Artificial Immune Recognition Systems", IEEE Symp. Series on Computational Intelligence (SSCI 2011), Paris, France, April 11-15, 2011.
44. M.Mirian, N.Eghbali, M.T.Mahmoudi, L.Beig, T.M.Ghazi, M.Kharrat, "Designing Intelligent Recommender System to Enhance Rural Wemon's Access into Their Daily Necessities in Web", 3rd Rural ICT Conference , Tehran, Iran, Dec 2011.
45. M.T.Mahmoudi, F.Taghiyareh, K.Rajavi, M.S.Pirouzi, "": A Context-Aware Framework for Semantic Indexing of Research Papers", The Fourth Intl. Conf. on Information, Process, and Knowledge Management (eKnow 2012), Valencia, Spain, Jan.30, 2011- Feb. 4, 2012.
46. A.Shoara, K.Badie, M.T.Mahmoudi, "Web Design Considerations for Realizing Functions in Content Management Systems", The International Conference on Informatics Engineering & Information Science (ICIEIS2011), Malaysia Nov. 14-16, 2011.
47. M.T.Mahmoudi, F.Taghiyareh, K.Rajavi, F.Shokri, L.Khamnian, "Semantic Advisor-Assisting Framework to Select Learning Materials", 3rd Intl. Conf. on e-learning & e-teaching, ICELET 2012, Tehran.(Best Paper)
- 48.M.T.Mahmoudi, M. Parsanasab, M. A. Behbahani, M. K. Haghghat, F. Taghiyareh, "Automatic Creation of Semantic Schema for Accurate Retrieving of Education-Supportive Documents", 6th IEEE International Conference on E-Learning in Industrial Electronics (ICELIE 2012), Canada,2012.
- 49.M.T. Mahmoudi, F. Taghiyareh, K.Badie, M. R. Basirati, "Frame-based Semantic Retrieval of Education Supportive Materials", 11th European Conference on e-Learning (ECEL 2012), The Netherlands, 2012.
50. M. T. Mahmoudi, M. Kharrat, K. Badie, T. M.Ghazi, S. Babazadeh, M. Peyvast, "Criteria for Designing Educational Portals Based on Learning Concern and type of Engagement", 7th international conference on New Media and Education, DisCo2012, Czech Republic, 25-27 June, 2012.
51. K. Badie, M. T. Mahmoudi, M. Yadollahi, "Role of Content Mining in Enhancing the Ability of Thinking", International Conference in Economics, Informatics and Communications Field, EIC 2012, Romani, 25th-26th May 2012.
52. M.T.Mahmoudi, M.Peyvast, M.Mohseni, M.Kharrat, K.Badie, "Ontology-based Framework for Designing Educational Portals for Enterprunership Skill Improvement", The 4th Intl. Conf. on e-Learning and e-Teaching (ICELET 2013), Shiraz, Iran.
53. T.M.Ghazi, M.T.Mahmoudi, M.Mohseni, M.Kharrat, "Multi Dimensional Framework for Qualitative Evaluation in E-Learning", The 4th Intl. Conf. on e-Learning and e-Teaching (ICELET 2013), Shiraz, Iran.
54. S.Ghasemi, F.Taghiyareh, M.T.Mahmoudi, "Enhancing Quality of Learning based on Congnetive Levels of Bloom in Blended Leraning Environments", 3rd Conf. on Engineering Education, Tehran, Iran, 2013.

55. M.Goodarzi, M.T.Mahmoudi, R.Zamani, “A Framework for Sentiment Analysis on Schemabased Research Content Via Lexica Analysis”, 7th International Symposium on Telecommunications (IST'2014), Tehran, Iran, 2014.
56. M. T. Mahmoudi, K. Badie, S.H. Ahmadi, “A Comparative Study on the Existing Graphical User Interfaces for Occupational Therapy”, 7th Intl. Conf. on Information Technology (ICIT 2015), Jordan, Amman, 2015.
57. N. Asadi, K. Badie, M. T. Mahmoudi and N. Sahabi, “Extraction of Significant lexical Associations to Classify the Essential Perspectives for Text Summarization”, Int'l Conf. Information and Knowledge Engineering (IKE'15), USA, 2015.
58. M.T. Mahmoudi, K. Badie, M. Valipour, “Assessing the Role of AR-Based Content in Improving Learning Performance Considering Felder-Silverman Learning Style”, IEEE International Conference on Interactive Collaborative Learning (ICL), Florence, Italy, 2015.
59. M. T. Mahmoudi & K. Badie, “Frame-based Interpretation of Semantic Similarity/Relevance Between Lexicons/Roots: A New Perspective in Etymology & Lexicon Formation”, The 26th Scandinavian Conference of Linguistics (SCL 26), Aalborg University, Denmark, 2015.
60. N.Asadi, K.Badie, . M.T.Mahmoudi, “Identifying Categories of Zones in Scientific Papers based on Lexical and Syntactical Features”, IEEE 2nd Intl. Conf. on Web Research, Iran, 2016.
61. M.T.Mahmoudi, S.Maghari, “Evaluation of User Satisfaction on Applying Thrapeutic Instruction Support System based on Felder Silverman Learning Style Model”, The 10th Intl. Conf. on e-Learning and e-Teaching (ICELET 2016), tehran, Iran, 2016.
62. K.Badie and M.T.Mahmoudi, “Compositional Adaptation in Case – Based Reasoning based on the Semantic Relations between the Components in the Cases”, The 2017 IEEE International Conference on INnovations in Intelligent SysTems and Applications (INISTA 2017), Gdynia, Poland, 3-5 July, 2017.
63. K. Badie, N. Asadi, M.T. Mahmoudi, “A New Approach to Zone Identification Based on Considering Features with High Semantic Richness”, The 2017 IEEE International Conference on INnovations in Intelligent SysTems and Applications (INISTA 2017), Gdynia, Poland, 3-5 July, 2017.
64. M.T.Mahmoudi, F. Zamiri, P.Yassini, “A Color Sensing AR-Based Interactive Learning System for Kids”, The 12th Conference on e-Learning and e-Teaching (ICeLeT 2018), Tehran, Iran, Feb.28- March 3, 2018.
65. M.T.Mahmoudi, E.Yafteh, “Personalization of Spinal Cord Injury Mobility and Transfer Support Application based on Case-Based Reasoning”, IEEE 4th International Conference on Web Research, April 25-26, 2018, Tehran, IRAN.

Teaching Experiences

- Teaching Evolutionary Computing, K.N.Toosi University of Technology, since 2019.
- Teaching Machine Learning Algorithms, University of Tehran, since 2017.
- Teaching Programming Languages Design, Advanced Programming, Technical English Language courses, Alzahra University, since 2014-2016.

- Teaching Artificial Intelligence, Science & Culture University, since 2014.
- Teaching Computer Programming, university of Tehran, since 2010-2013.
- Teaching Computer Fundamentals, Advanced Programming and Data Structure for B.Sc. Students, Iran University of Science and Technology, Iran, 2002-2010
- Teaching different Mathematics Courses for B.Sc. and HND Students for 9 terms includes: Introductory mathematics, General Mathematics, Mathematics 3,4,5 and 6, Azad University, Technical Faculty, South Tehran Unit, Iran, 1996-2000
- Teaching Computer Fundamentals in English for ABE (Association of Business Executives) which is a course from England at Dibagaran Tehran Institute for 2 terms, Iran,2000-2001
- Teaching Computer at Soroush Saadat School, Tehran, Iran, 1997-1999
- Teaching Computer, English, Engineering Mathematics as Teaching Assistance at Azad University, Lahijan, 1993-1996

Research Experiences

- Deputy of IT Research Faculty, ICT Research Institute, Since 2017-2019.
- Researcher, research manager & member of scientific board of IT Faculty at ICT Research Institute, Since 2001.
 - ü Executive project manager of “Improving researchers abilities in computer science and technology via organizing useful texts” project, 2001-2002.
 - ü Executive project manager of “Online content & idea generation for e-learning purposes”, 2003-2004.
 - ü Executive project manager and member of Intelligent Organizations Research Management Team, 2005.
 - ü Member of IT Applications Technical Group Association, 2004-2005.
 - ü Manager of Process & Architecture Core in Intelligent e-Organization Team, 2005, 2006.
 - ü Supervisor of following projects:
 - Establishing & equipping e-commerce Lab. & Technical Intelligence Lab., 2009-2010.
 - Design, implementation & establishment of e-content sharing services between organizations based on existing standards, 2011-2013.
 - Content Delivery Network, 2014-2016.
 - Head of Content Projects in Local Search Engine Plan, Since 2016.

Research Projects

- E-content organization for improving conceptual frames of researchers mind, 2001-2002.
- Online content & idea generation for e-learning purposes, 2003-2004.
- Intelligent e-organization research management, 2005.
- A new framework for e-learning systems and content personalization based on knowledge management, 2006-2007.
- Designing Ontology of Content Process in e-learning 2008-2009.
- A new framework for Evaluating content in e-services, 2010.
- Presenting Conceptual model of knowledge network in ICT domain, 2011-2012.
- Supervision and control of knowledge network and e-content sharing infrastructure, 2011-2013.
- Role of ontology in CDN user modeling, 2013-2014.
- Assisting and training systems for educational and therapy purposes, since 2002.
- Content Delivery Network (CDN), 2015-2016

- IoT Laboratories Necessities, 2017
- Search Engine Management, 2017-2018
- Content Creation Assessment Criteria, 2017-2018
- Data Governance, 2019
- Artificial Intelligence and related significant projects in this area for ICT Research Institute, 2019

Related Activities

Other Publications:

- § Translating 80 Papers and Handbooks for Tehran Traffic Control Company and Safety Control Magazine, Since 2001
- § Writing and Translating Computer Papers and News for Negasht Magazine for Computer Society of Iran, Numbers 3,4,5,6,7,9 Since 2002
- § Writing and Translating about 10 Papers and Computer News for Rayaneh Monthly Computer Magazine, Numbers: 69, 71, 77, 83, 90, Since 1997
- § Writing and Translating Computer Papers and News for Gozaresh Computer Magazine , No. 156,157,158,159, 160, 164, 165, Since 2003
- § Interview by Takfa Magazine, Vol.1, No.5, June-July 2003

Scientific Activities:

- § Iranian e-learning association newsletter (YADA) editor in Chief, since 2014.
- § Executive of the Annual Congress of IEEE Iran Section in 2014 1393 02 31
- § Assistant of Editor for The CSI Journal on Computer Science and Engineering, Vol.1, 2003
- § Reviewer of papers in different conferences (IKT2003 (Iran), RICT2004 (Iran), ITCC2004 (IEEE/USA), ITCC2005 (IEEE/USA) , IKT2005 (Iran), WITID 2006 (IRAN).
- § Executive and Translator of Second International Applied Mathematics, Iran University of Science and Technology, October 26-28, 2000
- § Working on different research projects at IT Faculty, Iran Telecom Research Center, Since 2002 specially in the domain of e-learning & e-organization, content & idea generation,...
- § Member of executive & scientific committee of different conferences such as: IKT'03, IKT'05, WITID'04, WITID'06, IKE'05, ...
- § Announcer of Opening Ceremony & Executive member of IST 2012 Conference, Iran, 2012.
- § Executive of the Annual Congress of IEEE Iran Section in 2014.
- § Executive of the Annual Congress of Electrical & Electronic in 2017.

International Session Chair:

- § Chair of “ Reasoning in Pedagogy” session at ICET'03 , USA, Aug 26, 2003
- § Chair of “Pedagogical Text Systems” session at WAC2004, Spain, June 28- July 1, 2004
- § Chair of “Computation & Reasoning in Idea Generation” session at WSEAS, Greece , July 12-15,2004
- § Chair of “Knowledge Management and Cyber-Learning” session at IKE'05, USA, June 20-23, 2005 and Associate editor of IKE'05 Proceedings.
- § Admin of Workshops of WITID2006, Isfahan, Iran, 2006
- § Chair of “Experience Mining & Management in Design, Control & Automation”, WAC2006, Budapest, Hungary, July 24-27, 2006.
- § INISTA 2017, Gdynia, Poland, 2017.

Workshops & Lectures:

- § Presenting a lecture on “Pedagogical Text Organization for Enhancing the Conceptual Frameworks” at Unesco branch in Tehran for Role of IT & knowledge in learning research skills seminar, May 8th , 2003
- § Presenting a lecture on “Features of a pedagogical text with respect to formation of mental skills/capabilities of the researcher” at Institute for Cognitive Science Studies, May 15th , 2003
- § A workshop on “ Role of Pedagogical Text Systems for Enhancing Researcher’s Abilities in the Area of ICT”,accepted for International Symposium on Telecommunications (IST2003), Isfahan, Iran, August 16-18, 2003
- § A workshop on “Role of Pedagogical Text Systems for Enhancing Researcher’s Abilities in the Area of IKT”, IKT2003, Amir Kabir University, 2003.
- § A workshop on “Generating Novel Scientific Ideas through Interaction of Significant Concepts”, at Unesco branch in Tehran for IT & Anthropology workshop,2003.
- § “*Computational Generation of Scientific Contents in Persian via Concept Composition*”, 1st Wrkshop on Persian Language and Computer, Tehran University, May 25-26, 2004.
- § K.Badie , M.T.Mahmoudi, M.Yadollahi, J.A.Moghaddam, “A Knowledge Processing Framework for Urban Planning & Prospect Anticipation”, Workshop ELECIT2004, Mashhad, Iran, 2004.
- § K.Badie, M.T.Mahmoudi, J.A.Moghaddam, M.Yadollahi, “ Knowledge Management & Cyber Learning”, ITIS2004, Yazd, Iran, 2004.
- § Admin of “Mathematics in the Era of Information & Communication Technology”, discussion panel at Mathematics faculty of Iran University of Science & Technology, Tehran. Iran, 2004
- § “IT-based Knowledge Creation” A Total Solution for Learning Environment”, lecture in IT Development for e-learning, (IT2005), Shariati Technical University, Tehran, Iran
- § K.Badie, M.T.Mahmoudi, “Generating New Ideas through Ontology Driven Composition of Structured Concepts”, GIAN & DAAD Mini- Workshop, Tehran University, Iran, Feb 26-28, 2005
- § K.Badie, M.T.Mahmoudi, Workshop “Research Management: An essential means for creating knowledge in research environments”, IST2005, Shiraz, Iran, 2005.
- § K.Badie, M.T.Mahmoudi, seminar on “ Aspects of knowledge creation in managing the research activities in information & communication technology”, Alzahra University, Tehran, Iran, 2005.
- § K.Badie , M.T.Mahmoudi, “Content Personalization Via Merging the Onto-graphs of Content and User Model”, e-Content Summit, Armenia, 2006.
- § Kambiz Badie, M.T.Mahmoudi “Research Method From Knowledge Creation View point”, Interdisciplinary Congress in Neuropsychology, 2007.
- § Kambiz Badie, M.T.Mahmoudi, “Content Mining: A Supplement Idea/Decision Support Means”, Isfahan University of Technology, 2007.
- § In Experience – Oriented Environments
- § M.T.Mahmoudi, “Conceptual Model for Content Generation”, Tafresh Azad University, 2011.
- § M.T.Mahmoudi, “Frame-Based Semantic Retrieval of Education Supportive Materials”, Tafresh Azad University, 2012.
- § K.Badie, M.T.Mahmoudi, M.Kharrat, “Reconsidering Research Methodology from the Viewpoint of Knowledge Promotion”, IST 2012, Iran.

Teaching Interests

Computer Fundamentals, Content organization/ management/ personalization, Ontology & Concept net, Conceptual models, knowledge management, Machine learning based on symbolic methods, Decision support systems, Artificial intelligence, Augmented Reality, Information Technology, e-learning, e-research, Intelligent tutoring systems, recommender

systems, Computer Applications in other fields of study, IoT, Technical Language, Data Structure, Internet, Principles of Programming (Pascal, C, C++),...

Research Interests

Content personalization, Idea generation, Content organization, Multimedia Content generation, Content Analysis, Augmented Reality, Knowledge management, Knowledge Integration, Decision Support Systems, e-learning & e-research, Pedagogical text systems, Intelligent tutoring systems, recommender systems, User modeling, Computational AI , Image Processing, Intelligent transportation systems,...