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Profile

A professional with over twenty four years of world class academic and industrial experience. An enterprise level leader who emphasizes on quality, excellence and teamwork to produce highest quality deliverables. Initiating and leading national and international level projects in the field of ICT.

Core Competencies

- ▶ Research & Development
- ▶ Academics & Training
- ▶ Curriculum Development
- ▶ Entrepreneur
- ▶ National Level PM
- ▶ Multicultural Diversity
- ▶ Multimedia Systems
- ▶ Multimedia Networks
- ▶ Software Engineering & FOSS

Recent projects

- ▶ The Founder and Director of MCI mobile Value Added Services Lab (VASL)
- ▶ Major Consultant for the National Fuel Smart Card Project
- ▶ The National Free/Open Source (FOSS) Project
- ▶ National Network Development Model into Next Generation Networks
- ▶ The National Intranet and IDC Topology & Standards Project
- ▶ Scalable & Error Resilience Video Coding in VoD and IPTV Applications
- ▶ Estimating Depth of Anesthesia Using EEG Signals During Operation
- ▶ Object Recognition and Tracking in Video Sequences
- ▶ QoS in Multimedia Wireless Networks (Ad Hoc & Sensor Networks)
- ▶ Wireless Network Security
- ▶ Mobile Software & Value Added Services

Education

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| PhD (1996) | Purdue University, W. Lafayette, USA
Electrical & Computer Engineering
<i>Thesis:</i> Adaptive Multiresolution Image & Video Compression and Pre/Post-Processing of Images & Video Streams
<i>Advisors:</i> R.L. Kashyap, J. Allebach, S. Gelfand, and J. Berger |
| EEE (1993) | University of Southern California, USA
Professional Engineering Degree, GPA: 4.0/4.0
<i>Emphasis:</i> Image Processing & Computer Vision |
| MSEE (1989) | California State University at Long Beach, USA
Electrical Engineering (<i>With Honors</i>), GPA: 4.0/4.0
<i>Emphasis:</i> Signal Processing & Filter Design |
| BSEE (1987) | BSEE California State University at Long Beach, USA
Electrical Engineering, (<i>With Great Distinction</i>) GPA: 3.9/4.0 |

Experience

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| Sharif University of Technology | Department of Computer Engineering
<i>As an Associate Prof.:</i> Teaching graduate and undergraduate courses and |
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(2000-now)	supervising graduate students. Founder and Director of Digital Media Lab (DML) and Mobile Value Added Services Lab (VASL).
Advanced ICT Research Center (AICTC) (2001-now)	<i>As the Founder & Director:</i> Supervising research and development on ICT including multimedia systems, enterprise solutions, mobile services, software engineering & free/open source software, e-services and security.
UNB, Canada (2007 – now)	School of Computer Science <i>As an Adjunct Professor of CS:</i> Teaching graduate courses and supervising graduate students.
Iran Telecommunications Research Center (ITRC) (2005-2007)	<i>As the Director of IT & Scientific Relations:</i> Planning and conducting research on Advanced ICT fields and managing international and national scientific relations.
Sharif Advanced Technologies Incubator (2003-2005)	<i>As the Founder & Director:</i> promoted entrepreneurship on advanced ICT products and services for talented university graduates. Supported formation of more than 25 start up companies with more than 200 employees.
Intel Corporation, Hillsboro, OR, USA (1996-1999) compression/	Media & Interconnect Technology Lab. <i>As a Senior Software Engineer:</i> Designed and implemented state of the art video algorithms and CODECs (Indeo, DV & H.263++) for video transmission over the Internet. Designed algorithms for Internet based multimedia services.
AT&T Bell Labs. (Lucent), USA (1993-1996)	Technology Planning, Broadband Interactive Multimedia Systems <i>As a Member of Technical Staff:</i> Investigated Multimedia applications over ISDN-BRI, B-ISDN and Internet. Designed error concealment algorithms for H.261/H.262 applications over ATM. Investigated the use of MPEG-2 for Video Telephony (VT) applications. Investigated the effects of BCH forward error correction in H.261-VT applications. Investigated the effects of errors in VT applications. Evaluated Video Conferencing Technologies. Investigated optimal choice of parameters for H.261, H.262 Video Compression. Designed algorithms for Picture in Picture (PIP) in Multimedia applications. Developed pre/post-processing algorithms for compressed video streams.
Portland State University Portland, USA (1996 – 2001)	Department of Electrical & Computer Engineering <i>As an Adjunct Associate Professor:</i> Teaching graduate courses on Digital Signal and Image Processing, Computer Networks, Advanced DSP, Advanced Communication and supervising Ph.D. and Master students.
Oregon State University Corvallis, USA (1996 – 2000)	Department of Electrical & Computer Engineering <i>As an Adjunct Associate Professor:</i> Teaching graduate courses on Digital Signal and Image Processing, Computer Networks, Advanced DSP, Advanced Communication.
OGI Hillsboro, USA (1998 – 2001)	Department of Electrical & Computer Engineering <i>As an Adjunct Professor:</i> Teaching graduate courses on Digital Image and Video Processing.

PortNet Multimedia Portland, USA (1998 – 2002)	An Internet Solution Company As the President: Managed development of multimedia, e-business, and e-learning solutions for future interactive applications over the Internet. We also offered web design, web hosting, server co-location, e-commerce solutions, consulting on multimedia applications, software design, and networking.
Purdue University West Lafayette, USA (1991-1996)	Department of Electrical & Computer Engineering <i>As a Research Assistant:</i> Developed multiresolution algorithms for image and video compression. Developed robust nonlinear filters for image processing applications.
Purdue University West Lafayette, USA (1993 – 1996)	Department of Mathematics <i>As a Teaching Assistant:</i> Lectured college Linear Algebra courses. Collaborated with the faculty and staff to improve the quality of instruction for undergraduate mathematic courses.
ICN Co. Pasadena, USA (1990-1991)	Algorithm Design & Implementation <i>As a Design Engineer:</i> Designed an adaptive echo canceler using TMS320C25 DSP and designed lattice structure filters for real-time image processing.
CSULB Long Beach, USA (1988-1989)	Department of Electrical Engineering, Image Processing Lab. <i>As a Teaching Assistant:</i> Supervised the development of an interactive software package for image enhancement, restoration, and compression on personal computers. Designed real time image processing algorithms for ITI-151 IP-system. Graded students' homework and exams for a course in Digital Control. Conducted recitations for courses in Random Processes and Estimation Theory.
American Telecom. Anaheim, USA (1984-1985)	<i>As a Test Engineer:</i> Performed test and analysis of digital FIR and IIR filters. Evaluated the performance of communication boards and electronics components.

Executive Activities

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- ▶ Member of IFIP Working Group 10.3 on Concurrent Systems (2009 – Now)
 - ▶ Director of Information Technology Group, Education Deputy of MSRT (2009 – Now)
 - ▶ Senior Member of IEEE (2007 – Now)
 - ▶ Expert Member of Supreme Council of Information Technology, (Jan. 2006 – Now)
 - ▶ Senior Advisor of Information Technology, Parliament (Majlis), (Sept. 2005 – Now)
 - ▶ Senior Advisor of Information Technology, National Library of Iran, (2001 – Now)
 - ▶ Expert Member of Expediency Council on ICT (2007 – Now)
 - ▶ Founder, Director of Advanced ICT Research Center (AICTC) of Sharif University (April 2001 – Now)
 - ▶ Director of IT & Scientific Relations, ITRC Research Center (November 2005 – 2007)
 - ▶ Founder and former Director of Sharif Advanced Technologies Incubator, (April 2003 – Jan. 2005)
 - ▶ Member of Supreme Technology and Research Committee, Ministry of Science (2002 – 2003)
 - ▶ General Chair of the 15th Iranian Electrical Engineering Conference, Tehran, Iran, 2007.
 - ▶ Scientific Chair of the Second E-Learning Conference, Tehran, Iran, 2005.
 - ▶ General Chair of The Ninth Iranian Computer Society Conference, Tehran, Iran, 2004.
 - ▶ General Chair of The First Eurasian Conference on Advances in ICT, Shiraz, Iran, 2001.
 - ▶ Reviewer for Elsevier Computer Communications Journal (2006 – Now)

- ▶ Reviewer for IEEE ICIP & IEEE ICASSP (2005 – Now)
- ▶ Reviewer for IEEE Transactions on PAMI (1992-1995)
- ▶ Reviewer for IEEE Transactions on Image Processing, (1998 – Now)
- ▶ E.I.T Certificate, State of California (1989)

Courses & Projects Face

Communications & Signal Processing

Advanced Digital Communications, Advanced Signal Processing, Advanced Communication Networks, Signal and Image Processing with TMS320C25, Internetworking with TCP/IP, CMOS VLSI Design, Error Control Coding, Digital & Analog Filter Design, Digital Estimation Theory, Speech Processing, Stochastic Processes, Linear and Nonlinear Programming.

Image Processing & Computer Vision

Multimedia Systems, Digital Video Compression Standards, Analog/Digital Video, Advanced Digital Image Processing, Pattern Recognition, Remote Sensing, Medical Imaging Systems, Advanced Computer Vision, Artificial Intelligence, and Robotics.

Mathematics and Statistics

Mathematical Statistics, Decision Theory & Bayesian Statistics, Applied Mathematics, Real Analysis, and Statistical Wavelets in Regression.

Projects

Mobile Value Added Services, Design of Security Operation Center (SOC), Design of National Network, Design of National IDC, Design of MMS Server, Enterprise Software Solutions, Multimedia Set-Top-Box for VoD Applications, Depth of Anesthesia with EEG Signals, Design and optimization of H.264 CODEC, Object base-video coding & Tracking, Multimedia Streaming in Overlay Networks, QoS in AdHoc Networks, Secure AdHoc & Sensor Networks, Robust Image Watermarking, Gigabit Routing using Network Processors, Elearning Portals, Designed a decision feedback equalizer for channel equalization. Comparative study of TDMA and CDMA. Investigated the effect of BCH and RS error control codes in channel coding. Designed FIR/IIR filters and tone generators on TMS320C25 DSP. Designed a CMOS circuit layout for implementation of pipelined 2D-DCT. Designed block based motion estimation algorithms. Designed a client/server system for multimedia communications over Internet. Designed a speaker independent speech recognition system in software. Designed a ML classifier for classifying different crops using remotely sensed data. Designed adaptive LMS filters for noise cancellation. Used GMRF models and local statistics for texture classification. Used classical/modern spectral estimation techniques for parameter identification. Used Hough transform and hierarchical algorithms for polyhedron object recognition. Designed an image processing system in C (restoration/enhancement/compression). Designed a fully functional vending machine using sequential logic. Designed compensator in feedback control systems.

Inventions

- ▶ Spatial Error Concealment for Image Processing (with H. Radha), Lucent Technologies (AT&T Bell Labs), US Patent Number 6134352.
- ▶ Device and method for centralized processing of picture-in-picture images (with R. Coutinho, J. Dale, H. Radha), Lucent Technologies, US Patent Number 5,808,659.

- ▶ Aparatus for Estimating Depth of Anesthesia During Surgery (with P. Gifani, S.M. Golpayegani, S. Momenzadeh, M. Ghanbari), SUT, IRI Patent Number 42392.

Publications

▶ Books & Book Chapters

- [1]. H. R. Rabiee, E-Government, The German Experience, vol. 1, ISBN:964-92382-4-7, Aug. 2004.
- [2]. M. Khansari and H. R. Rabiee, An Introduction to Free and Open Source Softwares, ISBN:964-96535-0-3, November 2005.
- [3]. S. Shahbazi, G. Sani, H. Rabiee, M. Ghanbari, M. Dehghan, "ADIAN: A Distributed Intelligent Ad-Hoc Network," Lecture Notes in Computer Science (LNCS), Springer Berlin / Heidelberg, ISBN:978-3-540-68139-7, Vol. 4308, pp. 27-39, 2006.

▶ Journal Papers Under Review/Revision

- [1]. M. Amiri, H. R. Rabiee, "A Novel Rotation/Scale Invariant Template Matching Algorithm Using Weighted Adaptive Lifting Scheme Transform," Under Revision, Accepted for publication, July 2009.
- [2]. Gifani , H.R. Rabiee, M.H Hashemi, M. Ghanbari, "Dimensional Complexity Characterization of the Hypnotic States during Anesthesia," submitted to Elsevier Chaos, Solutions & Fractals, 2009.
- [3]. A. Ghane, H. R. Rabiee, M. Ghanbari, "Motion Uncertainty and Error Concealment Accuracy," submitted to IEEE Transactions on Image Processing, 2009.
- [4]. H. Roodaki, H. R. Rabiee, M. Ghanbari, "Rate-Distortion Optimization of Scalable Video Codecs," submitted to Elsevier Signal Processing and Image Communications, 2009.

▶ Published Conference, Journal Papers & Technical Reports

- [5]. L. Pishdad, H. R. Rabiee, and N. Mirarmandehi, "A Fair Optimization Scheduling Scheme for IEEE 802.16 Networks in Multimedia Applications", Accepted for publication in Elsevier Journal of Visual Communication and Image Representation (JVCI), May 2009.
- [6]. Z. Baharvand Iran-Nia, H.R. Rabiee, M. Bagherian, "A New Gene Selection Method for Reduction of Reundant Genes in Cancer Microarray Classification," Accepted for publication in Journal of Science, University of Tehran, 2009.
- [7]. S. Nari, H. R. Rabiee, A. Abedi, M. Ghanbari, "An Efficient Algorithm for Overlay Multicast Routing in Videoconferencing Applications," IEEE 18th International Conference on Computer Communications and Networks (ICCCN-2009), San Francisco, USA, August 2-6, 2009.
- [8]. M. Khansari, H.R. Rabiee, M.H. Rohban, M. Ghanbari, "On The Search Window Updating for Occlusion Handling in Object Tracking Applications," International Workshop on Computer Vision and Its Application to Image Media Processing, Tokyo, Jan., 2009.
- [9]. A. Roozgard, H. R. Rabiee, M. H. Rohban, "Generation of Video Indexes with Gaussian Mixture Models," in proceedings of CSICC2009 Conference, Tehran, Iran, 2009.
- [10]. M. Jalili, H. R. Rabiee, "On Enhancing Synchronization Properties of Dynamical Networks Using Node and Edge Centrality Measures," International Conference on Information Management and Engineering (ICIME 2009), April 3-5, Kuala Lumpur, Malaysia, 2009.
- [11]. P. Taslimi, H. R. Rabiee, H. Shakouri, "An Empirical Centre Assignment in RBF Network for Quantification of Anaesthesia Using Wavelet-Domain Features," The 4th International IEEE EMBS Conference on Neural Engineering, Antalya, Turkey, April 29 through May 2, 2009.

- [12]. S. Khalighi, P. Tirdad, H. R. Rabiee, M. Parviz, "A Novel OCR System for Calculating Handwritten Persian Arithmetic Expressions," IEEE Eighth International Conference on Machine Learning and Applications (ICMLA 2009), Florida, USA, Dec. 13-15, 2009.
- [13]. S. Khalighi, P. Tirdad, H. R. Rabiee, "A New Robust Non-Blind Digital Watermarking Scheme in Contourlet Domain," IEEE International Symposium on Signal Processing and IT (ISSPIT 2009), Ajman, UAE, Dec. 14-17, 2009.
- [14]. MJ. Khaledi, A. M. A. Hemmatyar, H. R. Rabiee, S. M. Mousavi, MH. Khaledi, "Mobility Analyzer: A Framework for Analysis and Recognition of Mobility Traces in Mobile Ad-Hoc Networks," In Proceedings of the IFIP/IEEE third International Conference on New Technologies, Mobility and Security (NTMS'09), Cairo, Egypt, December 2009.
- [15]. MH. Khaledi, S. M. Mousavi, H. R. Rabiee, A. Movaghar, MJ. Khaledi, O. Ardakanian, "Mobility Aware Distributed Topology Control in Mobile Ad-hoc Networks Using Mobility Pattern Matching," In Proceedings of the 5th IEEE international Conference on Wireless and Mobile Computing, Networking and Communications WIMOB'09, Morocco, October 2009.
- [16]. A. Roozgard, N. Barzigar, H. R. Rabiee, "Application of Convolutional Neural Networks in Recognition of Farsi Letters," Second Joint Congress of Fuzzy and Intelligent Systems, Malek-Ashtar University, Tehran, October 2008.
- [17]. L. Pishdad, H. R. Rabiee, "An Optimization Based Uplink Scheduler for IEEE 802.16 Networks," IEEE International Conference on Computer and Electrical Engineering (ICCEE'08), Thailand, 2008.
- [18]. B. Akbari, H.R. Rabiee, M. Ghabari, "Packet Loss in Peer-to-Peer Video Streaming over the Internet," ACM/Springer Multimedia Systems Journal, pp. 345-361, Vol. 13, February 2008.
- [19]. B. Akbari, H.R. Rabiee, M. Ghabari, "An Optimal Discrete Rate Allocation for Overlay Video Multicasting", Elsevier Journal of Computer Networks and Communications, pp. 551-562, Vol. 31, February 2008.
- [20]. M. Khansari, H. R. Rabiee, M. Asadi, M. Ghanbari, "Adaptive Object Tracking in Crowded Video Scenes Based on the Undecimated Wavelet Features and Texture Analysis," EURASIP Journal of Advances in Signal Processing, Vol. 8 , Issue 2, Article 14, January 2008.
- [21]. H. Roodaki, H. R. Rabiee, M. Ghanbari, "Performance Enhancement of H.264 CODEC by Layered Coding," IEEE ICASSP'08, March 30 – April 4, Las Vegas, USA, 2008.
- [22]. S. Shariat, H. R. Rabiee, M. Khansari, "A New Measure for Precision Alteration in Merging Bayesian Networks in Image Classification Applications," ICEE 2008, May 13-16, Tehran, Iran, 2008.
- [23]. S. Shariat, H. R. Rabiee, M. Khansari, "Inferring a Bayesian Network for Content-Based Image Classification," 13th International CSI Computer Conference, March 9 -11, Kish Island, Iran, LNCS, Springer, 2008.
- [24]. R. Rasouli, H. R. Rabiee, M. Ghanbari, "A Joint Source-Channel Rate-Distortion Optimization Algorithm for H.264 codec in Wireless Networks," 13th International CSI Computer Conference, March 9 -11, Kish Island, Iran, LNCS, Springer, 2008.
- [25]. S. Ghanbari, J. Woods, H. R. Rabiee, M. Locus, "Wavelet Domain Binary Partition Trees for Image Segmentation," IEEE 6th International Workshop on Content-Based Multimedia Indexing, CBMI-2008, June 18-20, London, UK, 2008.
- [26]. S. Nari, H. R. Rabiee, "A New Multicast Overlay Protocol for Video Conferencing over Internet," 13th National CSI Computer Conference, March 9 -11, Kish Island, Iran, 2008.

- [27]. M. H. Rohban, H. R. Rabiee, M. Khansari, "Face Virtual Pose Generation using Multi Resolution Subspaces," IST 2008, Iran Telecommunication Research Center, Tehran, Iran, August 2008.
- [28]. M. Naderan Tahan, Hamid R. Rabiee, F. Saremi, Z. Iranmanesh, "An Overlay Multicast Protocol for Multimedia Applications in Mobile Ad-hoc Networks," 2008 IEEE Asia-Pacific Services Computing Conference (IEEE APSCC 2008), Yilan, Taiwan, December 9-12, 2008.
- [29]. A. M. Roozgard, N. Barzigar, H. R. Rabiee, "The Applications of Convolutional Neural Networks on Recognition of Farsi Letters," The Second Joint Congress on Fuzzy and Intelligent Systems, Malik Ashtar University, Tehran, Iran, October 28-30, 2008.
- [30]. Z. Baharvand Irannia, H. R. Rabiee, M. Bagherian, A New Multi-Stage hybrid Feature Selection Method for Discriminatory Genes Selection in cDNA Microarray Gene Expression Data Classification, The 2nd Iranian Conference on Bioinformatics, ICB'08, Tehran University, Tehran, Iran, October 8-9, 2008.
- [31]. R. Rasouli, H. R. Rabiee, M. Ghanbari, Channel Adaptive Rate-Distortion Optimization for H.264 Video Coding in Wireless Networks, The Fifth Machine Vision and Image Processing Conference, MVIP 2008, Tabriz, Iran, November 4-6, 2008.
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- [33]. S. Ghanbari, J. Woods, H. R. Rabiee, M. Locus, "Wavelet Domain Binary Partition Trees for Semantic Object Extraction," IET Electronics Letters, No. 43, 2007.
- [34]. M. Khansari, H. R. Rabiee, M. Asadi, M. Ghanbari, "Crowded Scene Object Tracking in Presence of Gaussian White Noise Using Undecimated Wavelet Features," IEEE ISSPA, in proceedings of the International Symposium on Signal Processing and its Applications, Feb. 12-15, Sharjeh, United Arab Emirate (UAE), 2007.
- [35]. M. Khansari, H. R. Rabiee, M. Asadi, M. Ghanbari, "Occlusion handling for object tracking in crowded video scenes based on the Undecimated Wavelet features," in proceedings of the AICCSA, ACS/IEEE International Conference on Computer Systems and Applications, May 13-16, Amman, Jordan, 2007.
- [36]. M. Khansari, H. R. Rabiee, M. Asadi, M. Ghanbari, "Object Tracking in Crowded Scenes Contaminated with Quantization Distortion," in proceedings of the 12th Annual Computer Society of Iran Computer Conference, February, Tehran, Iran, 2007.
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- [38]. M. Kefayati, M. S. Talebi, H. R. Rabiee and B. H. Khalaj. "Secure Consensus Averaging for Secure Information Fusion in Sensor Networks," in proceedings of the 10th International Symposium on Signal Processing and its Applications (ISSPA 2007), 2007. Member of IFIP Working Group 10.3 on Concurrent Systems (2009)
- [39]. M. Kefayati, M. S. Talebi, B. H. Khalaj, and H. R. Rabiee, "Secure Consensus Averaging in Sensor Networks Using Random Offsets," in proceedings of the ICT-MICC 07, Penang, Malaysia, May 14-17, 2007.

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- [41]. A. Javadtalab, H. R. Rabiee, M. Omidyegane, M. Ghanbari, "A New Technique to Increase the Proxy Caching Performance in VoD Systems," in proceedings of the IEEE International Symposium on Broadband Multimedia Systems and Broadcasting 2007 (IEEE Broadband Multimedia 2007), Orlando, Florida, USA, March 2007.
- [42]. A. Akbari, H. Rabiee, M. Ghanbari, "Packet Loss Recovery Schemes for Peer-to-Peer Video Streaming," In proceedings of The Third International Conference on Networking and Services, ICNS'07, Athens, Greece, June 19-25, 2007.
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- [44]. H. Rabiee, M. Ghanbari, H. Roodaki, R. Rasouli, A. Ghane, A. Jalali, "Part II: Design and Implementation of an H.264 CODEC, Tech. Report, AICTC, Sharif University, 2007.
- [45]. H. Rabiee, P. Gifani, "SCUBA: A New Index for Dynamic Estimation of Depth of Anesthesia from EEG Signals," Tech. Report, AICTC, Sharif University, 2007.
- [46]. J. Muhammadi, H. R. Rabiee, M. Hasanzadeh, M. Ghanbari, "Conceptual image segmentation using binari space partitioning trees", 4th Iranian conference on machine vision and image processing, Mashhad, Iran, Feb. 2007.
- [47]. S. Yousefi, H. Rabiee, E. Yousefi and M. Ghanbari, "Reversible Data Hiding Using Coefficient Sorting in Integer Wavelet Domain,"In Proceedings of IEEE 2007 International Conference on Multimedia and Expo, Beijing, China, July 2007.
- [48]. P. Gifani, H. R. Rabiee, M.R Hashemi, M. Ghanbari, "Dimensional Characterization of Anesthesia Dynamics in Reconstructed Embedding Space," The 29th International Conference of the IEEE Engineering in Medicine and Biology Society in conjunction with the Biennial Conference of the French Society of Biological and Medical Engineering (SFGBM), Lyon, France, August 23-26, 2007.
- [49]. E. Yousefi, S. Yousefi, H. R. Rabiee, "Image Encryption and Hiding by Number Theory Concepts," Proceedings of 4th ISCC Conference, Tehran, Iran, October 2007.
- [50]. S. M. Mousavi, H. R. Rabiee, M. Moshref and A. Dabirmoghaddam, "Model Based Adaptive Mobility Prediction in Mobile Ad-Hoc Networks," The 3rd IEEE International Conference on Wireless Communications, Networking and Mobile Computing (WiCOM2007), Shanghai, China, September 21-23, 2007.
- [51]. S. M. Mousavi, H. R. Rabiee, M. Moshref, A. Dabirmoghaddam, "Mobility Aware Distributed Topology Control in Mobile Ad-hoc Networks with Model Based Adaptive Mobility Prediction," The 3rd IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob 2007, New York, USA, October 8-10, 2007.
- [52]. S. M. Mousavi, H. R. Rabiee, M. Moshref, "MobiSim: A Framework for Simulation of Mobility Models in Mobile Ad-Hoc Networks," The 4th IEEE International Conference on Mobile Technology, Applications and Systems, Mobility 2007, Singapore, 10th - 12th September 2007.
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Anesthesia Annual Meeting (STA2006), Selected Paper, Anesthesia & Amnesia Journal, San Diego, California, January 18-21, 2006.

[55]. P. Gifani, H.R. Rabiee, M.H Hashemi, S. Momen zadeh, P. Taslimi, M. Ghanbari, "Nonlinear Analysis of Anaesthesia Dynamics by Fractal Scaling Exponent" , 28th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, IEEE EMBC, New York, USA, 2006.

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[58]. M. Khansari, H. R. Rabiee, M. Asadi, M. Ghanbari, "Object Shape Prediction in Noisy Video Based on Undecimated Wavelet Packet Features," MMM2006, The 12th International Multimedia Modelling Conference, Jan. 2-4, Beijing, China, 2006.

[59]. M. Khansari, H. R. Rabiee, M. Asadi, M. Ghanbari, "Human Computer Interface in Semi-Automatic Video Object Segmentation Systems," CSICC, 11th Annual Computer Society of Iran Computer Conference, February, Tehran, Iran, 2006.

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[61]. M. Amiri and H. R. Rabiee, "Object Detection Based on Weighted Adaptive Prediction in Lifting Scheme Transform," in Proc. of IEEE International Symposium on Multimedia, ISM-2006, San Diego, California, USA, Dec. 2006.

[62]. M. Jaffari, H. Rabiee, M. Ghanbari, Skin Detection Using Eleptical Models, CSICC, 11th Annual Computer Society of Iran Computer Conference, Tehran, Iran, Jan. 24-26, 2006.

[63]. A. A. Moghadam, S. Barghi, H. Rabiee, M. Ghanbari, A New Scheme on Recovery from Failure in NICE Overlay Protocol, IEEE International Workshop on Peer-to-Peer Information Management, Hong Kong, May 29, 2006.

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[65]. M. Talebi, M. Kefayati, B. Khalaj, H. Rabiee, Adaptive Consensus Averaging for Information Fusion over Sensor Networks, The 3rd IEEE International Conference on Mobile Ad-hoc and Sensor System MASS06, October 9-12, Vancouver, Canada, 2006.

[66]. S. Yousefi, H. Rabiee, M. Ghanbari, On The Security of The Shi Reversible Data Hiding Algorithm, 13th IEEE International Conference on Electronics, Circuits and Systems, Nice, France, Dec. 10-13, 2006.

[67]. M. Kefayati, H. R. Rabiee, S. G. Miremadi and A. Khonsari, Misbehavior Resilient Multi-path Data Transmission in Mobile Ad-hoc Networks, ACM SASN'06, 2006.

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Technical Skills

Software	RUP, EUP, XP, USDP, UML, C, C++, Java, .Net, J2EE, XML, HTML.
Operating Systems	Linux, Windows, Mac OS, Solaris and Unix.
CAD Tools	MATLAB, Mentor Graphics, Mathematica, SPICE.
Standards	JBIG, JPEG, H.261, H.263++, H.264, MPEG2, MPEG4, MPEG7, MPEG21, ISDN, ATM, NGN.

Honors & Awards

- ▶ Advisor of the Best MS Thesis Award, for Invention in Design of a New Technique for Estimation of Depth of Anesthesia from EEG Signals (2007)
- ▶ The Best Applied Researcher Award, Sharif University of Technology (2003)
- ▶ The Best Applied Researcher Award, Sharif University of Technology (2001)
- ▶ IAL Video Codec Design Award for Indeo[®] 5.0, Intel Corp. (1997)
- ▶ Excellence in Teaching Award, Purdue University (1995-1996)
- ▶ AT&T Diversity Award (1993-1994)
- ▶ MSEE with Highest Honors (1989)
- ▶ BSEE with Great Distinction (1987)
- ▶ Member of NSPE, and Golden Key National Honor Society, USA (1986)
- ▶ Distinguished Student of Mathematics Award (1984-1985)

Collaborators

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- ▶ Dr. M. Saeed, MIT-Harvard, PhD-MD Program.
- ▶ Prof. A. Ghorbani, UNB, Canada.
- ▶ S. Etemady, Microsoft Research and Department of ECE, Michigan State University.