

Hossein Ebrahimpour-Komleh

CURRENT POSITION

- **Assistant Professor**, Department of Computer Engineering, Faculty of Engineering, The university of Kashan , Kashan , Iran

PREVIOUS POSITIONS

- **Associate Dean Of Education and Graduate studies**, Faculty of Engineering, The university of Kashan , Kashan , Iran
- **Postdoctoral Research Fellow**, The University of Newcastle, Newcastle Mater Hospital, Newcastle, Australia
- **Visiting Scientist**, CSRIO Biomedical Imaging group, Sydney, Australia

EDUCATION

Ph.D.	Queensland University of Technology, Brisbane, Australia
Dissertation: “ Fractal Techniques for Face Recognition “ Supervisors : <ul style="list-style-type: none">• Dr. Vinod Chnadran• Prof. Sridha Sridharan Course: Advanced Information Retrieval (IFN001), Result: 7 out of 7 (HIGH DISTINCTION)	
M.Sc. (With Honours)	Computer Engineering (Machine Intelligence and Robotics) Amir-Kabir University of Technology (Tehran Polytechnic), Tehran, Iran GPA : 16.09/20.00
Courses: Image Processing, Computer Vision, Natural Language processing, Machine Intelligence, Statistical Pattern recognition, Structural Pattern Recognition, Robotics, Design and Analysis of algorithms, Seminar (Chaos Theory), Project (Fractal Image Coding)	
B.Sc. (First Class Honors)	Computer Engineering (Computer Hardware) Isfahan University of Technology Isfahan, Iran GPA: 16.28/20.00
Selected Courses: Neural Networks, Artificial Intelligence, Expert Systems, Peripheral Devices, Microprocessor(Z80, 80X86, 68000), Microprocessor Lab I & II.(Transputers and Occam Language)	

RESEARCH INTERESTS

Image and Visual Information Processing, Fractals and Chaos Theory, Computer and Robot Vision, Pattern and Object Recognition, Neural Networks, Biometrics, Medical Image Processing, Artificial Intelligent, Expert Systems, Robotics.

HONORS and SCHOLARSHIP

- **Ph.D. Scholarship**, Iranian Ministry of Science, Research and Technology, 2000-2004.
- **M.Sc. With Honours**, Computer engineering, Amir-Kabir University of Technology (Tehran Polytechnic), Tehran, Iran ,1996.
- **B.Sc. First Class Honours**, Computer engineering, Isfahan University of Technology ,1993.
- Ranked **82th** among 350,000 students taking Iranian Universities' entrance exam, 1988.

TEACHING EXPERIENCE

2007-present	Assistant Professor	The University of Kashan , Kashan, Iran <ul style="list-style-type: none"> • Artificial Intelligence • Data Structure • Digital Image Processing • Neural Networks • Microprocessors & Microcontrollers • Assembly Language • Parallel Algorithms • Advanced Mathematics for Computer Engineering
2000-2004	Tutor (Causal)	Queensland University of Technology, Brisbane, Australia <ul style="list-style-type: none"> • EEP104-Real Time Operating system • ITB420-Computer Architecture • BNB007-Professional Studies 1 (Matlab) • EEB321- Analog and Digital Electronics • EEB521- Digital System and Control
1996-2000	Lecturer	Department of Engineering, The University of Kashan, <ul style="list-style-type: none"> • Microprocessors • Computer Architecture and Digital Design • Peripheral Devices • Advanced Computer Programming • Microprocessors Lab. • Logic Circuit Lab.
1993-2000	Lecturer (part Time)	Azad University ,Iran <ul style="list-style-type: none"> • Operating System design • Data Structure

- Design and Analysis of Algorithms
- Computer Graphics
- Assembly Language

RESEARCH EXPERIENCE

2007-present	Assistant Professor	Biometrics, Robotics and A.I.
2005-2007	Postdoctoral Research Fellow	High-Contrast megavoltage imaging for pre-treatment soft-tissue
2000-2004	PhD Student	Fractal Techniques for Face Recognition
1996 (March –October)	Researcher	Radar Simulation System Project(part of) Electrical and Computer Engineering Research Center, Isfahan University of Technology , Isfahan , Iran
1995-1996	MSc Student	Fractal Image coding
1992-1993	Researcher	Design a Neural Network System to Control a Mobile Robot, IAA, Isfahan Iran

OTHER WORK EXPERIENCES

1994-1996	Computer Engineer	Hardware Engineer Bahar Computer Co. Tehran , Iran
1994 – 1996	Manager of Computer Centre	Azad University of Garmsar
1993-1994	Computer Engineer	Design a Neural Network System to Control a Mobile Robot, IAA, Isfahan Iran
1991-1993	Computer Engineer	Software Engineer and Developer Majmaeh Omor senfi, Sherkat Mokhaberat Isfahan , Iran

COMPUTER PROGRAMMING SKILLS

- Programming: C, C++, Java, Pascal, Basic, Assembly Language (Z80, 80x86, 68000), Prolog, Lisp, Matlab, HTML.

- Operating Systems: Windows, Unix and Linux, DOS.

PUBLICATIONS

Thesis:

- 1- H. Ebrahimpour-Komleh, "[Fractal Techniques for Face Recognition](#)", *PhD thesis*, Queensland University of Technology, Brisbane, Australia, 2004.
Downloaded 883 times (since deposited on 03 Dec 2008)
- 2- H. Ebrahimpour-Komleh, "**Fractal Image Encoding and Compression**" (Persian). *Master of Engineering thesis*, Department of Computer Engineering, Amir-Kabir University of Technology, Tehran, Iran, 1996.

Book Chapter and journal papers:

- 3- H. Ebrahimpour-komleh, V. Chandran, and S. Sridharan "[An Application of Fractal Image-set Coding in Facial Recognition](#)," Springer Verlag Lecture Notes in computer science, Vol 3072, Biometric Authentication, DOI: 10.1007/978-3-540-25948-0_25, pp178-186. (ISI)
- 4- Mojtaba Romoozi, Hossein Ebrahimpour-Komleh "[A Positioning Method in Wireless Sensor Networks Using Genetic Algorithms](#)" *International Journal of Digital Content Technology and its Applications*, Vol. 4, No. 9, Dec. 2010 (indexed by : SCOPUS, INSPEC, EI(Compendex), DBLP)

Selected Refereed Conference Publications :

- 5- H. Ebrahimpour, A. Kouzani "[Face Recognition Using Bagging KNN](#)", *International Conference on Signal Processing and Communication Systems (ICSPCS'2007)*Australia, Gold Coast, 17-19 December 2007
- 6- H. Ebrahimpour, P.Greer, M.Ebert, S.Ourselin, D.Popescu, "**Evaluation of ART & Feildkamp Algorithms for MegaVoltage CT**". EPSM 2005. Adelaide, Australia
- 7- H. Ebrahimpour-komleh, V. Chandran, and S. Sridharan "**Subfractals: A new concept for fractal image coding and recognition**," APRS Workshop on Digital Image Computing (WDIC2005), Brisbane, Australia
- 8- H. Ebrahimpour-komleh, V. Chandran, and S. Sridharan "**Fractal Image-set encoding for Face Recognition**", *International Conference on Computational Intelligence for Modelling Control and Automation Proceedings (CIMCA 2004)*, pp.664-672.
- 9- H. Ebrahimpour-komleh, V. Chandran, and S. Sridharan," **Facial Image Retrieval Using Fractal Image-Set Coding**", *2nd Workshop on Information Technology & Its Disciplines (WITID 2004)*, Kish Island, Iran.

- 10- H. Ebrahimpour-Komleh, V. Chandran., and S. Sridharan, "**Mathematical Basis for use of fractal codes as features**," *Image and Vision Computing (IVCNZ) 2002, 26th - 28th November 2002*, University of Auckland, Auckland, New Zealand, vol. 1, pp. 203-208, 2002.
- 11- H. Ebrahimpour-Komleh, V. Chandran, and S. Sridharan, "**Robustness to expression variations in fractal-based face recognition**," *Sixth International Symposium on Signal Processing and its Applications*, vol. 1, pp. 359-362, 2001.
- 12- H. Ebrahimpour-Komleh, V. Chandran., and S. Sridharan, "**Face recognition using fractal codes**," *Proceedings of International Conference on Image Processing (ICIP)*, vol. 3, pp. 58-61, 2001.
- 13- H. Ebrahimpour-Komleh, V. Chandran, and S. Sridharan, "**Face Recognition using Fractal Codes**," *Third Australasian Workshop on Signal Processing Applications, (WoSPA) 2000*, Brisbane, Australia, 2000.
- 14- H. Ebrahimpour-Komleh, H. Karbasi and H. Jalali, "**An Expert System for ECG Interpretation**," (Persian) *First Iranian Conference on Education, Research and Application*, Tehran University, Tehran, Iran, 1993.

۱۵- علی عظیمی ستوده، حسین ابراهیم پور“ ارایه روش جدید برای بازیابی تصاویر با استفاده از تکنیک بسته های پیکسل والگوریتم ژنتیک ” ششمین کنفرانس بین المللی ماشین بینایی و پردازش تصویر، دانشگاه اصفهان، ایران آبان ۱۳۸۹

۱۶- میثم عسگری، رضا بابایی، حسین ابراهیم پور“ بهبود کارایی الگوریتم *Lucy-Richardson* به کمک برنامه‌نویسی موازی پردازنده گرافیکی ” ششمین کنفرانس بین المللی ماشین بینایی و پردازش تصویر، دانشگاه اصفهان، ایران آبان ۱۳۸۹

- 17- H. Ebrahimpour-Komleh, "**Fractal Patterns in Fullerene Graphs**," *First Iranian Conference on Chemical Graphs, FICCGT 2010*, Tehran, Iran, Oct 2010.

Other Conference papers:

- 18- H. Ebrahimpour-komleh, V. Chandran, and S. Sridharan, "**A review of fractal codes as features for human identification**," *Trilateral (Irano-Germano-Armenian) Workshop on: Intelligent Information Technologies in Data Analysis and Control (IITinDAC2004)*, Tehran, Iran, Feb. 2004.
- 19- H. Ebrahimpour-komleh, V. Chandran, and S. Sridharan, "**A Neural Network Sub-fractal system for face verification**," *6th Workshop on Neural Network*, Tehran, Iran, Feb. 2004.

Invited paper:

- 20- H. Ebrahimpour-komleh, “ **fractal system for face recognition**,” iCi Research Symposium, QUT, Brisbane, Australia, August 2006

Professional Membership

- Member, Association for Computing Machinery (**ACM**).
- Member, Institute of Electrical and Electronics Engineers (**IEEE**).
- Member, **IEEE Computer Society**.
- Member, **APESMA** (Association of Professional Engineers, Scientists and Managers Australia)
- Member, The International Association of Engineers (**IAENG**)
- Member, [**ISMVIP**](#) (Iranian Society of Machine Vision and Image Processing)