

CURRICULUM VITAE

Assoc. Prof. Dr. Nafiz ARICA, Ph.D.

Department of Computer Engineering
Bahcesehir University, Istanbul, Turkey, 34353
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EDUCATION

PhD. (1998-2003)

Middle East Technical University, Department of Computer Engineering, Ankara, TURKEY

Thesis Title : SHAPE : Representation, Description, Similarity, Recognition

Advisor : Fatoş T. Yarman-Vural

- Developed a novel shape representation and description method, called Beam Angle Statistics (BAS)
- Proposed a new similarity measure and Hidden Markov Model topology based on BAS features

M.S. (1995-1998)

Middle East Technical University, Department of Computer Engineering, Ankara, TURKEY

Thesis Title : Off-Line Handwritten Character Recognition

Advisor : Fatoş T. Yarman-Vural

- Developed a new scheme for off-line handwritten connected character recognition problem, which uses a sequence of segmentation and recognition algorithms

B.S. (1987-1991)

Naval Academy, Department of Computer Engineering, Istanbul, TURKEY

RESEARCH EXPERIENCE

University of Illinois at Urbana Champaign, Urbana, IL, USA
Beckman Institute for Advanced Science and Engineering

Postdoctoral Research Associates (February 2006- April 2007)

Worked with Prof. Narendra Ahuja and conducted research on

- Learning based Visual Attention
- Perceptual Grouping
- Hierarchical Image Segmentation
- Object Detection and Categorization

**Naval Postgraduate School,
Department of Information Sciences**

Monterey, CA, USA

Visiting Scholar, (December 2007 – July 2008)

- Conducted research on Command Control Communications Computers and Intelligence (C4I) Systems
- Non-degree Education in Command Control Communications Computers and Intelligence (C4I) Systems Program

Naval Academy, Department of Computer Engineering

Istanbul, TURKEY

Faculty Member (August 2004 – October 2013)

- Current research projects
 - 3-D Spatial Layout Extraction of Indoor Images
 - Human Activity Analysis
 - Search Approaches for Real-Time Situated Agents
 - Attribute Based Object Categorization
 - Scene Representation and Classification
 - Object Tracking and Analysis in Aerial Videos
- Completed research projects
 - Modeling and Simulation of Unmanned Aerial Vehicle Flight Paths
 - Image Steganography
 - Affine Invariant Interest Region Detection
 - Audio Signal Classification
 - Underwater Acoustic Signal Recognition
 - Scene Classification
 - Cyclic sequence comparison
- Participated in the following projects for Naval Forces
 - Identification System for Electronic Warfare
 - Geographical Information System for Operations Center in Navy Headquarter

Middle East Technical University, Department of Computer Engineering,

Ankara, TURKEY

Researcher (September 1996 - July 2003)

- Member of the Image Processing and Pattern Recognition Group
- Participated into the following projects during his PhD study:
 - Content-Based Image and Document Description, supported by NSF-USA
 - Optical Character Recognition for Ottoman Script, supported by Turkish National Council of Research
 - Historical Newspaper Database System, supported by State Planning Organization

University of Rochester, Dept. of Electrical and Computer Eng. **Rochester, NY, USA**

Visiting Researcher (July-August 1998 and July-August 2000) Joint NSF project with Prof. Murat Tekalp and Prof. Fatos Yarman-Vural.

- Worked on content based image retrieval systems.
- Developed an object detection and representation system in image database.

PROFESSIONAL EXPERIENCE

Bahcesehir University, **Istanbul, TURKEY**

Director, Graduate School of Applied and Natural Sciences (September 2014 – present)

Faculty Member, Department of Computer Engineering (February 2015 – present)

Faculty Member, Department of Software Engineering (November 2013 – February 2015)

Naval Academy, Department of Computer Engineering **Istanbul, TURKEY**

Department Chair (August 2007 – October 2013)

Program Coordinator of C4I Graduate Program (September 2009 - October 2013)

Program Coordinator of Computer Engineering Graduate Program (August 2007 – August 2009)

Erasmus Coordinator (August 2007 – February 2008)

Middle East Technical University, Department of Computer Engineering, **Ankara, TURKEY**

Part-time Faculty (September 2003-July 2004)

Turkish Navy Headquarter CIS Division **Ankara, TURKEY**

Branch Head, Information Systems Project and Planning Officer (December 2003-August 2004)

- Planning and budgeting Navy information systems' procurement,
- Guiding the HQ activities from the information systems standpoint.

Project Officer, Information Systems Project and Planning (June 2003-December 2003)

- Procuring information systems
- Representing the Navy at NATO Maritime Command Control Information System (MCCIS) Life Cycle Working Group meetings

Database Management Systems Administrator (March 2002-June 2003)

- Administrating Database Systems for both intranet and internet
- Determining, executing and monitoring information systems security policies

Software Development Team Manager (June 2000-March 2002)

- Working on the management of project OMEGA, a large-scale software development aimed at producing a strategic C³ system for the Navy
- Developing the Geographic Information Systems (GIS) of the project OMEGA

System Administrator, (September 1998-June 2000)

- Operating HQ LAN and Naval WAN, as well as NATO information systems
- Administrating web for both intranet and internet

PUBLICATIONS

Journals (SCI-Expanded)

1. Halil Cicibaş, K. Alpaslan Demir, Nafiz Arica, “Unmanned Aerial Vehicle Domain: Areas of Research”, *Defense Science Journal* DOI:10.14429/dsj.65.863, 65/4, 2015.
2. Serap Aydın, Nafiz Arica, Emrah Ergül, Oğuz Tan, “Classification Of Obsessive Compulsive Disorder By EEG Complexity and Hemispheric Dependency Measurements”, *International Journal of Neural Systems*, doi:10.1142/S0129065715500100, 2015.
3. Serap Aydın, Nafiz Arica, Emrah Ergül, Oğuz Tan " Complexity and coherence analysis on EEG of patients with obsessive compulsive disorder", *ACTA PHYSIOLOGICA* Volume: 211 Special Issue: SI Supplement: 697 pp: 157-157, 2014.
4. Nafiz Arica, Ömer Kurtuldu, “Image Steganography By Wavelet Matching”, *Journal of Electronic Imaging*, vol.18, no.3, 033013, 2009.
5. Nafiz Arica, Fatoş Yarman-Vural, “BAS: A Perceptual Shape Descriptor Based on the Beam Angle Statistics”, *Pattern Recognition Letters*, Vol. 24, pp.1627-1639, 2003.
6. Nafiz Arica, Fatoş Yarman-Vural, “Optical Character Recognition For Cursive Handwriting”, *IEEE Trans. Pattern Analysis and Machine Intelligence*, vol. 24, no. 6, pp. 801-813, 2002.
7. Nafiz Arica, Fatoş Yarman-Vural, “An Overview of Character Recognition Focused on Off-line Handwriting”, *IEEE Trans. Systems, Man and Cybernetics, Part C: Applications and Reviews*, vol.31, no.2, pp.216-232, 2001.
8. Nafiz Arica, Fatoş Yarman-Vural, “One Dimensional Representation of Two Dimensional Information for HMM Based Handwritten Recognition”, *Pattern Recognition Letters*, vol.21 pp. 583-592, 2000.

(Lecture Notes in Computer Science) (SCI-Expanded)

9. Nafiz Arica, “Cyclic Sequence Comparison Using Dynamic Warping”, *Lecture Notes in computer Science*, Volume 3568, (International Conference on Image and Video Retrieval, CIVR 2005).
10. Nafiz Arica, Fatoş Yarman-Vural, “Shape Similarity Measurement for Boundary Based Features”, *Lecture Notes in computer Science* Volume 3656, pp. 431-439, (International Conference on Image Analysis and Recognition - ICIAR 2005)
11. Ömer Onder Tola, Nafiz Arica, Fatoş Yarman-Vural, “Shape Recognition With Generalized Beam Angle Statistics”, *Lecture Notes in computer Science*, Volume 3280, pp. 391-399, (International Symposium on Computer and Information Sciences, 2004).
12. Nafiz Arica, Fatoş Yarman-Vural, “A Compact Shape descriptor based on the Beam Angle Statistics”, *Lecture Notes in computer Science*, Volume 2728, pp.152-162, (International Conference on Image and Video Retrieval, CIVR 2003).
13. Mehmet Ali Ozdil, Fatoş Yarman-Vural, Nafiz Arica, “Optical Character Recognition Without Segmentation”, *Lecture Notes on Computer Science*, vol.1311, pp. 609-615, (International Conference Image Analysis and Processing, ICIAP 1997).

Journal Papers in Preperation (SCI-Expanded)

14. Nafiz Arica, Aysegul Mut, Alper Yorukcu, “Comparing Search Approaches for Real-Time Situated Agents”, *Computational Intelligence* (Submitted)
15. Halil Cicibaş, K. Alpaslan Demir, Nafiz Arica, Murat Gunal, “A Multi-Criteria Path Planning Model and Simulation For Unmanned Aerial Vehicles” *IEEE Systems* (Submitted).
16. Mehmet Karayel, Emrah Ergül, Nafiz Arica, “Synthetic Attributes For Image Classification”, *Computers & Electrical Engineering* (Submitted).
17. Emrah Ergül, Nafiz Arica, Narendra Ahuja, Sarp Ertürk, “Clustering Through Hybrid Network Architecture with Support Vectors”, *IEEE Transactions on Neural Networks and Learning Systems* (Submitted).

Other Journals

1. Özhan Güneş, Nafiz Arica, “Audio Signal Classification Using Bag of Acoustic Words”, *Navy Review*, Vol: 583, pp. 88-94, 2013.
2. Nafiz Arica, Halil Cicibaş, K. Alpaslan Demir, “İnsansız Hava Araçları İçin Çok Kriterli Güzergah Planlama Modeli”, *The Journal of Defense Sciences*, Vol:11, No:1,pp:251-270, 2012.
3. Murat KÜÇÜKBAYRAK, Özhan GÜNEŞ, Nafiz ARICA, “Underwater Acoustic Signal Recognition Methods”, *Journal of Naval Science and Engineering*, Vol:5, No:3, pp:64-79, 2009.
4. Emrah Ergül, Nafiz Arica, “Scene Classification Using Cascaded Latent Semantic Analysis”, *Journal of Naval Science and Engineering*, vol:5 (2), 2009.
5. Mesut Güney, Nafiz Arica, “Desen Tabanlı İlgi Bölgesi Tespiti”, *Journal of Naval Science and Engineering*, vol:5 (1), 2009.
6. Ömer Kurtuldu, Nafiz Arica, “İmge Kareleri Kullanan Yeni Bir Steganografi Yöntemi”, *Journal of Naval Science and Engineering*, vol:5 (1), 2009.

International Conference Proceedings

1. Emrah Ergül, Sarp Ertürk, Nafiz Arica, “Hierarchical Image Representation Using Deep Network”, *International Conference on Image Analysis and Processing*, (ICIAP 2015), Sept. 7-11, Genova, Italy, 2015.
2. Duygu Çakır, Nafiz Arica, “Random Attributes For Facial Expression Recognition”, *International Conference on Advanced Technologies & Sciences*, (ICAT 2015), Aug. 4-7, Antalya, Turkey, 2015.
3. Tufan Çaliskan, Nafiz Arica, “Moving Object Detection in Turbulence Degraded Video”, *International Conference on Advanced Technologies & Sciences*, (ICAT 2015), Aug. 4-7, Antalya, Turkey, 2015.
4. Bayazıt Karaman, Onur Keçeci, Anıl Çelik, Coşkun Bayrak, Nafiz Arica, “Video Enhanced RFID Tracking System (VETS)”, *International Conference on Advanced Technologies & Sciences*, (ICAT 2015), Aug. 4-7, Antalya, Turkey, 2015.
5. Serap Aydın, Emrah Ergul, Nafiz Arica, Oguz Tan, “Complexity and coherence analysis on EEG of patients with obsessive compulsive disorder”, *Joint Meeting of the Federation of European Physiological Societies and the Hungarian Physiological Society*, (FEPS 2014), Aug. 27-30, Budapest, Hungary, 2014.

6. Tufan Çaliskan, Nafiz Arica, "Atmospheric Turbulance Mitigation Using Optical Flow", *International Conference on Pattern Recognition (ICPR)*, Stockholm, Sweden, 2014.
7. Halil Cicibaş, K. Alpaslan Demir, Murat Gunal, Nafiz Arica, "A Simulation Model For Analysing Unmanned Aerial Vehicle Flight Paths", *24th European Modeling & Simulation Symposium(EMSS)*, Sept. 19-21, Vienna, Austria, 2012.
8. Emrah Ergül, Nafiz Arica, "Scene Classification Using Spatial Pyramid of Latent Topics," *20th International Conference on Pattern Recognition (ICPR)*, pp.3603-3606, 2010.
9. Mesut Güney, Nafiz Arica, "Maximally Stable Texture Regions", *20th International Conference on Pattern Recognition (ICPR)*, pp.4549-4552, 2010.
10. Nafiz Arica, Ömer Kurtuldu, "A New Steganography Method Using Image Layers", *International Symposium on Computer and Information Sciences ISCIS 21*, 2008.
11. Nafiz Arica, Fatoş Yarman-Vural, "A Perceptual Shape Descriptor", *International Conference on Pattern Recognition (ICPR) Quebec*, Canada, pp. 375-379, 2002.
12. Nafiz Arica, Fatoş Yarman-Vural, "A Shape Descriptor Based on Circular Hidden Markov Model", *International Conference on Pattern Recognition (ICPR) Barcelona*, Spain, pp.924-928, 2000.
13. Nafiz Arica, Fatoş Yarman-Vural, "A New HMM Topology for Shape Recognition", *IEEE-EURASIP Workshop on Nonlinear Signal and Image Processing (NSIP'99)*, Antalya TURKEY, pp. 162-168, 1999.
14. Nafiz Arica, Fatoş Yarman-Vural, "A New Scheme for Off-Line Handwritten Connected Digit Recognition", *International Conference on Pattern Recognition (ICPR)*, Brisbane, Australia, pp.1127-1131, 1998.
15. Nafiz Arica, Fatoş Yarman-Vural, "One Dimensional Representation Of Two Dimensional Information For HMM Based Handwritten Recognition", *IEEE International Conference on Image Processing (ICIP)* October, Chicago, U.S.A. TP11.05, 1998.
16. Nafiz Arica, Fatoş Yarman-Vural, "Off-Line Handwritten Connected Character Recognition", *International Conference on Intelligent Processing Systems (ICIPS)*, pp.562-567, 1998.
17. Savas Aygun, Adnan Yazici, Nafiz Arica, "Conceptual Data Modeling Of Multimedia Database Applications", *IEEE International Workshop on Multimedia Database Management Systems (IW-MMDBMS'98)*, Dayton, Ohio, pp.182-189, 1998.
18. Nafiz Arica, Fatoş Yarman-Vural, "HMM Based Handwritten Recognition", *International Symposium on Computer and Information Sciences ISCIS XII*, pp. 260-266, 1997.

National Conference Proceedings

1. Serap Aydin, Emrah Ergul, Nafiz Arica, Oguz Tan, "Nöropsikiyatride Çok-Kanallı Hemisferik EEG Dimanikleri ve Akıllı Sınıflandırma", 26. Ulusal Biyofizik Kongresi, Tokat, 9-12 Eylül, 2014
2. Tufan Çaliskan, Nafiz Arica, "Atmosferik Türbülans Etkilerinin Öznitelik Tabanlı Optik Akış Yöntemiyle Azaltılması", *IEEE Signal Processing and Communications Applications*, Trabzon, Turkey, 2014.
3. Anıl Çelik, Nafiz Arica, "Göz Kapağı Hareketleriyle İnsan Bilgisayar Etkileşimi için Sıra Düzensel Yaklaşım", *IEEE Signal Processing and Communications Applications*, Trabzon, Turkey, 2014.

4. Mehmet Karayel, Nafiz Arica, “Random Attributes for Image Classification”, *IEEE Signal Processing and Communications Applications*, Girne, TRNC 2013 (**IEEE Best paper award 2nd place**).
5. Çağlar Yapıcılar, Nafiz Arica, “3D Spatial Layout Extraction of Indoor Images Using RGB-D Data”, *IEEE Signal Processing and Communications Applications*, Girne, TRNC 2013.
6. Emrah Ergül, Sarp Ertürk, Nafiz Arica, “Unsupervised Relative Attribute Extraction”, *IEEE Signal Processing and Communications Applications*, Girne, TRNC 2013.
7. Doğa Siyli, Lale Akarun, Nafiz Arica, “Physiotherapy Guidance by Motion Analysis Based on Hidden Markov Model”, *IEEE Signal Processing and Communications Applications*, Girne, TRNC 2013.
8. Aysegul Mut, Alper Yorukcu, Nafiz Arica, K. Alpaslan Demir, “A Comparison of Stationary Target Search Algorithms in Real Time Situated Agents with Variable Sensor Ranges”, *IEEE Signal Processing and Communications Applications (SIU'12)*, Fethiye, Turkey, 2012.
9. Halil Cicibaş, K. Alpaslan Demir, Nafiz Arica, “İnsansız Hava Araçları İçin Modüler Bir Simülasyon Tasarım Örneği”, *National Symposium on Software Engineering, (UYMS'2011)*, Ankara, Turkey, 2011.
10. Halil Cicibaş, K. Alpaslan Demir, Nafiz Arica, “İnsansız Hava Araçları İçin Çok Kriterli Güzergah Planlama Modeli”, *National Conference on Defence Applications Modelling and Simulation (USMOS'2011)*, Ankara, Turkey, 2011.
11. Mithat Dağlar, Özhan Güneş, Nafiz Arica, “Nitelik Tabanlı Nesne Sınıflandırmada Niteliklerin Olasılıksal ve Üçlü Temsili”, *IEEE Signal Processing and Communications Applications (SIU'11)*, Antalya, Turkey, 2011.
12. Emrah Ergül, Cemalettin Çiftçi, Nafiz Arica, “Sahne Sınıflandırılmada Önem Temelli Öznitelik Seçim Yöntemi”, *IEEE Signal Processing and Communications Applications (SIU'11)*, Antalya, Turkey, 2011.
13. Cemalettin Çiftçi, Emrah Ergül, Nafiz Arica, “Belirginlik Tabanlı Bölütleme ile Sahne Sınıflandırılması”, *IEEE Signal Processing and Communications Applications (SIU'11)*, Antalya, Turkey, 2011.
14. Nafiz Arica, “Çevrimsel Dizi Karşılaştırması İçin Dinamik Zaman Bükmesi”, *IEEE Signal Processing and Communications Applications (SIU'05)*, Kayseri, Turkey, 2005.
15. Omer Onder Tola, Nafiz Arica, Fatoş Yarman-Vural, “Genelleştirilmiş Kerteriz Acilari İstatistikleri ile Sekil Tanıma”, *IEEE Signal Processing and Communications Applications (SIU'04)*, Antalya, Turkey, pp.735-739, 2004.
16. Nafiz Arica, Fatoş Yarman-Vural, “Tikiz Sekil Betimleyicileri”, *IEEE Signal Processing and Communications Applications (SIU'2003)*, Istanbul, Turkey, pp.414-418, 2003.
17. Nafiz Arica, Fatoş Yarman-Vural, “Kerteriz Tabanlı Şekil Tanımlayıcısı”, *IEEE Signal Processing and Communications Applications (SIU'2002)*, Pamukkale, Turkey, pp. 2002 (**Best paper award**).
18. Nafiz Arica, Fatoş Yarman-Vural, “El Yazısı Tanıma Problemi için Bütünsel Parametre Kestirimi ve Bölütleme Algoritmaları”, *IEEE Signal Processing and Communications Applications (SIU'2003)*, Magosa, pp.261-266, 2001.

19. Nafiz Arıca, Fatoş Yarman-Vural, “Sakli Markov Model ile El Yazisi Tanimada İki Boyutlu Bilginin Tek Boyutlu Sunumu”, *IEEE Signal Processing and Communications Applications (SIU'98)*, Ankara, Turkey, pp.48-54, 1998.
20. Nafiz Arıca, Fatoş Yarman-Vural, “İnsan Optik Sisteminle Benzetilerek Gelistirilen bir El Yazisi Optik Karakter Tanıma Sistemi”, *IEEE Signal Processing and Communications Applications (SIU'97)*, Kusadasi, Turkey, pp.810-816, 1997.

CITATIONS

Google Scholar Citations

Citations: 856, h-index:11, i10-index:11

ISI Web of Knowledge Citation Report

Citations : 246, h-index: 5

Microsoft Academic Search

Citations: 323, g-index:17, h-index:8

RESEARCH PHILOSOPHY

The general theme of my research is to develop intelligent systems with a focus on “seeing”. In accordance with this ultimate goal, my research interests include various subjects in Computer Vision, Machine Learning and Autonomous Agents. During my research career, I have worked on many problems that have real-world applications in these areas. In particular, the problems I have addressed in my research covers image/object representation and classification, Deep Learning, 3-D image analysis, human activity analysis, detecting and tracking moving objects for video surveillance. In addition I have studied on simulation and modeling of Unmanned Aerial Vehicle (UAV) flight paths, and path planning algorithms.

For my research, I combine the rigor of basic sciences with the innovative and practical aspects of engineering. My general goal in research is to develop novel techniques based on probabilistic models and engineering approaches. I pursue my research based on three pillars: analysis of real world problem, development of computational models and experimentation on large set of real data.

SUPERVISED THESIS

Bahçeşehir University

Anıl Çelik, “Occlusion Analysis in Face Frontalization”

Naval Science and Engineering Institute,

Omer Kurtuldu, “İmge Steganografisi için Yeni Yöntemler”
Mesut Güney, “Yüksek Boyutlu İmge Özniteliklerine Dayalı İlgi Bölgesi Tespiti”
Hüseyin Gürsoy, “Sınır Tabanlı Özel Bölgeler için Şekil Betimleyicisi”
Murat Küçükbayrak, “Underwater Acoustic Signal Recognition Methods”
Emrah Ergül, “Scene Classification Using Latent Semantic Topics”
Özhan Güneş, “Nitelik Tabanlı Nesne Sınıflandırma”

Curriculum vitae: Nafiz ARICA

Halil Cicibaş	“Multi-Criteria Path Planning Model And Simulation For Unmanned Aerial Vehicles”
Ayşegül MUT	“Search Algorithms for Moving Agents”
Mehmet Karayel	“Random Attributes for Image Classification”
Cağlar Yapıcılar	“3D Spatial Layout Extraction of Indoor Images Using RGB-D Data”

Middle East Technical University, Computer Engineering Department

Önder O. Tola “Shape Matching” with Prof. Fatoş Yarman-Vural

CURRENT STUDENTS

Duygu Çakır	PhD in Bahçeşehir University
Recep Doga Siyli	PhD in Bogazici University (with Prof. Lale Akarun)
Emrah Ergul	PhD in Kocaeli University (with Prof. Sarp Erturk)

TEACHING PHILOSOPHY

I adopt student centered learning approach where the student plays an active role in the learning process. I view my role as a mentor who facilitates the learning instead of a classical teacher. I provide guidelines and create a dynamic environment in which the students develop their own learning. I encourage them to achieve course goals through a flexible learning path. I prefer to stimulate and nurture the students' development, giving help in terms of knowledge, techniques, and encouragement.

The learning environment in my classes supports and challenges the student's thinking. I believe that my task is not to teach them the facts and techniques of a particular domain but to teach how to formulate problems and look for their solutions. For example, instead of giving directly the algorithm for the shortest path problem in graphs, I guide the students to characterize the recursive structure of an optimal solution and to develop the algorithm on their own. I promote the discovery and active learning of students.

Another important issue in my teaching approach is to make connections to the known concepts while teaching new concepts. I believe that this is the only way of growing our body of knowledge. In addition, I try to give good professional examples from the industry for each newly learned concept.

I encourage students to actively participate in the learning process. I think this can be achieved by building a good relationship with students. Starting from the first day in my class I make my students feel comfortable and participate in the discussions. My students know that all questions are welcome and that they are free to interrupt me anytime. I try to learn the names of all students attending to my class and to call them by name. My students also know that they are important for me. I always have time for them.

My teaching approach in undergraduate and graduate courses differs slightly. My emphasis in undergraduate courses is on improving their ability to learn new concepts. My goal is to achieve and nurture student's enthusiasm on the subjects in the course curriculum. In graduate courses, I prefer to use much more research oriented methods. I expect my graduate students to produce new ideas and make contributions to the related area, if possible.

COURSES GIVEN

• **Graduate Courses**

- Pattern Recognition (Fall 2005)
- Image Processing (Spring 2006)
- Introduction to Command Control (Fall 2008)
- Combat Analysis and Modeling (Spring 2009, 2010, 2011)
- Machine Learning (Fall 2009, 2010, 2011, 2012)
- Research Methods (Summer 2011)
- Computer Vision (Spring 2013)
- Artificial Intelligence (Spring 2013)
- Advanced Topics in Artificial Intelligence (Spring 2015)

• **Undergraduate Courses**

- Design and Analysis of Algorithms (Fall 2004, 2005, 2008, 2009, 2010, 2011, 2012, 2015)
- Artificial Intelligence (Spring 2005, 2007, 2009, 2010, 2011, 2012, 2013)
- Software Architecture (2014)
- Computing Systems (2014)
- Special Topics in Software Engineering (2014)
- Data Structures and Algorithms (Spring 2005, 2008, 2009, 2010, 2011)
- Formal Languages and Automata (Fall 2012)
- Computer Networks (Spring 2012, 2013)
- Programming Languages (Spring 2005)
- Software Engineering (Fall 2005, 2007)
- Introduction to C Programming Language (Fall 2003), (Spring 2004,2005, 2006)

OTHER ACTIVITIES

- Committee Member of “Dictionary of Engineering Terms” (The Turkish Academy of Sciences)
- Reviewer for the journals
 - IEEE Transactions on Pattern Analysis and Machine Intelligence
 - IEEE Transactions on Multimedia
 - Journal of Pattern Recognition Letters
 - Neural Processing Letters
 - Signal, Image and Video Processing
 - International Journal of Pattern Recognition and Artificial Intelligence
 - Turkish Journal of Electrical Engineering and Computer Science
- Program Committee Member and reviewer of conferences
 - International Conference on Pattern Recognition (ICPR)
 - Asian Conference on Computer Vision (ACCV)
 - International Conference on Image Analysis and Recognition (ICIAR)
 - IEEE Signal Processing and Communications Applications Conference
- Reviewer for grant proposals in Turkish National Council of Research

HONORS AND AWARDS

- Associate Professor rank received from Inter University Council (January 2011)
- IEEE Best paper award (2nd place) in IEEE Signal Processing and Communications Applications Conference (SIU 2013)
- Best paper award in IEEE Signal Processing and Communications Applications Conference (SIU 2002)
- Best Master Thesis award 1998, Middle East Technical University

BIOGRAPHICAL

- Born: July 15, 1969 in Ankara, Turkey
- Languages spoken: Turkish (native), English (fluent), German (intermediate)
- Social activities involved:
 - Member of the METU Turkish Music Chorus
 - Volleyball Player in National Military Team
 - Coach of Turkish Navy Volleyball Team

REFERENCES

Narendra Ahuja

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Aytül Erçil

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