

Curriculum Vitae

H. Işıl Bozma

1. Contact Information:

Work: Department of Electric Electronic
Engineering, Boğaziçi University
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2. Education

Ph.D	Electrical Engineering, Yale University, New Haven, CT	May 1992.
M.Phil	Electrical Engineering, Yale University, New Haven, CT	May 1987
M.S.	Electrical Engineering, Yale University, New Haven, CT	May 1986.
M.S.	Electrical Engineering, Case Western Reserve University, Cleveland, OH	May 1985
B.S.	Electrical Engineering, Bogazici University, Istanbul	July 1983.

Fields: Image Analysis and Computer Vision
Learning and Adaptive Systems
Control and Robotics
Signal Processing

Thesis: 'Decentralized Integration in Modular Systems Using a Game-Theoretic Framework'.
Advisor: Prof. James Duncan.

3. Research Interests

Intelligent systems and sensors, visual servoing, scene exploration, biologically motivated vision, automated inspection, image and real-time signal processing, mobile robots, game theory, reactive systems, decentralized decision making.

4. Academic Positions

Professor,	Boğaziçi University	15 October 2003
Associate Professor,	Boğaziçi University	15 November 1995 – 15 October 2003
Assistant Professor,	Boğaziçi University	14 July 1992 – 15 November 1995
Visiting faculty,	Boğaziçi University	28 February 1992 – 14 July 1992

5. Other related experience- teaching, industrial, etc:

Visiting Scholar	Advanced Technology Laboratory, Department of Electric Engineering and Computer Science University of Michigan, Ann Arbor, MI USA	1994 – Present
Project Director	BEKO Elektronik, Beylikdüzü, Istanbul, Turkey	Jan.-June 1999
Consultant	Tübitak – Marmara Research Institute, Gebze, Turkey	1992-1994

Visiting Scholar Ecole Nationale Supérieure des Telecommunications,
Paris, France

Summer 1988

6. **Scientific and professional societies of which a member:**

IEEE (Member), IFAC(Member).

7. **Honors and awards**

- ◆ TESID Creativity Award, April 2004.
- ◆ Boğaziçi University Academic Support (Akademik Teşvik) Award 2001,2002,2003,2004.
- ◆ TESID Turkish Innovation in Technology'99 Competition – Finalist in a joint project with BEKO, 1999.
- ◆ Texas Instruments – DSP Challenge'97 European Universities 2nd Runner-up, Team director 1997.
- ◆ TÜBİTAK Research Fellowship, 1994
- ◆ TÜBİTAK Travel grant to attend the NATO Advanced Study Institute, June 1993.
- ◆ Francois Erbsmann Prize - Best Paper, IPMI'91
- ◆ Visiting Scholar Fellowship, Ecole Nationale Supérieure Des Telecommunications, Paris, 1988
- ◆ Yale University Fellowship, 1985-1986
- ◆ Case Western Reserve University Fellowship, 1983-1984

8. **Subjects or courses taught**

EE 140	Digital Systems**
EE 210	Introduction to Electrical Circuits
EE 327	Circuit Laboratory
EE 342	Numerical Methods for Electrical Engineers*
EE 475	Introduction to Image Processing
EE 497	JAVA Programming*
EE 495	Optimization Theory*
EE 576	Machine Vision*
EE 571	Probabilistic System Analysis
EE 593	3D Modeling*
EE 653	Optimal Control
EE 628	Game Theory*

* First time course offering.

**First time course lab offering.

9. Professional Activities

- ◆ Intelligent Systems Laboratory, Boğaziçi University – Co-founder and director, 1996- Present.
- ◆ IEEE Transactions on Systems, Man and Cybernetics – Paper reviewer (2), 2001.
- ◆ MATHIND: A Balkan and Eastern European Network of Excellence for the Diffusion of Mathematics for Industry Expertise, Project team member, 2000.
- ◆ TÜBİTAK – TTGV: Referee for grant proposals on industrial research and development, 1996- Present.
- ◆ TÜBİTAK – TİDEB: Referee for grant proposals on industrial research and development, 1997 – Present.
- ◆ TÜBİTAK – EEEAG: Referee for grant proposals and funded research projects, 1996 – present.
- ◆ International Conference on Robotics and Automation, Belgium – Paper reviewer (1), 1997.
- ◆ IEEE Transactions on Pattern Analysis and Machine Intelligence – Paper reviewer (1), 1996.
- ◆ IEEE International Symposium on Intelligent Control, Turkey – Publications Chair, 1997.
- ◆ National Conference on Automatic Control - Program Committee Member, 1994.
- ◆ SIU National Conference on Signal Processing and Applications- Program Committee member and paper reviewer, 1993 – present.
- ◆ 2nd National Symposium on Artificial Intelligence and Neural Networks – Program Committee, 1993.

10. Invited International Seminars

"Local and Global Saccades". Gordon Research Conference on Sensory Coding and the Natural Environment, Montana, August 2006.

"Attentive Robots". Workshop on Neuromorphic Engineering, Telluride, CO, USA, June 2004.

"Attentional Sequences for Selective Perception", University of California, Berkeley CA, August 2002.

"Using Selective Perception for Recognition", ATL, University of Michigan, Ann Arbor, MI August 2001.

"Furniture-Moving Paradigm: A Feedback-Based Approach Using Game Theory", ATL, University of Michigan, Ann Arbor, November 1994.

"Towards the Design of Autonomous Systems", Matsushita Electric Company, Manufacturing Equipment Division, Osaka, Japan, February 1993.

"Decentralized Integration in Modular Systems Using a Game-Theoretic Framework", University of Illinois at Urbana-Champaign, Urbana, Illinois, ABD, November 1991.

“Integration in Intelligent Sensor Systems”, Department of Mechanical Engineering, University of Toronto, Toronto, Canada, October 1991.

“Decentralized Integration in Vision Systems”, Center for Automation and Intelligent Systems, McGill University, Montreal, Canada, October 1991.

“Integration in Vision Systems Using a Game-Theoretic Framework”, Vision and Robotics Group, IBM Yorktown Heights, New York, ABD, September 1991.

11. Industrial Seminars and Courses:

“Optimization and its Applications”, Industrial Seminars of Turkish Automation Fair, Istanbul, Turkey, 1998.

“Robotics and Industrial Applications”, Industrial Seminars of Turkish Automation Fair, Istanbul, Turkey, 1995.

12. Principal funded projects:

- ◆ *Project Title:* “Coordinated Navigation and Protein Folding ”, 2006-2009. Funding agency: TÜBİTAK ; 100,000 USD. Co-investigator.
- ◆ *Project Title:* “COSBIOM Towards Excellence in Computational Structural Biology and Biomaterials”, 2005-2008. Funding agency: European Commission; 850,000 Euro. Team member.
- ◆ *Project Title:* “Sequentialized Coordinated Motion: Convergence Properties in Gradient Projection Systems,”, BAP-05HB601. 2005-2006. Funding agency: Boğaziçi University Research Fund; . Co- investigator.
- ◆ *Project Title:* “2nd Generation Parts Carrier Robot Design and Realization”, BAP-2005-2006. Funding agency: Boğaziçi University Research Fund; 11,000 USD. Investigator.
- ◆ *Project Title:* “Autonomous Coordinated Motion and Applications”, 2005-2007. State Planning Agency; 150,000 USD. Primary investigator.
- ◆ *Project Title:* “Attentive Autonomous Systems”, 2002-2004. Funding agency: Boğaziçi University Research Fund; 23,000 USD. Primary investigator.
- ◆ *Project Title:* “Memory Models for Selective Perception”, 2001-2002. Funding agency: Boğaziçi University Research Fund; 6560 USD. Primary investigator.
- ◆ *Project Title:* “An Event-Driven Approach to Autonomous Assembly”, 2000-2004. Funding agency: TÜBİTAK-NSF International Program; 54,000 USD. Primary investigator and Co-investigator.
- ◆ *Project Title:* Fast Recognition Using Artificial Potential Functions, 1999-2000. Funding agency: Boğaziçi University Research Fund; 4,333 USD. Primary investigator.
- ◆ *Project Title:* “Object Recognition with Orthographic Viewing”, BÜ AF 97HA201. Funding agency: Boğaziçi University Research Fund: 690,000,000 T.L. (4059 USD). Primary investigator.

- ◆ *Project Title:* “A Mobile Robot Prototype Based on a Game-Theoretic Approach”, MİSAG-65, 1995-1999. Funding agency: TÜBİTAK; 1,800,000,000 T.L (42,000 USD) . Primary investigator.
- ◆ *Project Title:* “Selective Perception Based Visual Servoing”, BÜ AF 96A0236; 1996-1997. Funding agency: Boğaziçi University Research Fund; 240,000,000 T.L. (3000 USD) Primary investigator.
- ◆ *Project Title:* “A visual servomechanism based on selective attention”, BÜ AF 95A0228; 1995-1996. Funding agency: Boğaziçi University Research Fund; 170,000,000 T.L. (3400 USD) Primary investigator.
- ◆ *Project Title:* “Design and Development of Intelligent Systems”, 1994-1997. Funding agency: State Planning Agency; 5,000,000,000 T.L. (100,000 USD) Co-investigator.
- ◆ *Project Title:* “Model-Based Object Recognition”, 93HA0230; 1993-1994. Funding agency :Boğaziçi University Research Fund; 125,000,000 T.L. (11,364 USD) Primary investigator.
- ◆ *Project Title:* “A game-theoretic approach to automated assembly”, MİSAG 24, 1992; 1992- 1994. Funding agency: TÜBİTAK ; 233,300,000 T.L. (21,182 USD) Primary investigator.

13. Ph.D. Thesis Direction

- ◆ Ç. Soyer. “A Model of Active and Attentive Vision”, 2002 (Prof. Dr. Yorgo İstefanopulos as co-advisor). (Currently Principal Scientist, NATO C3 Agency, Command and Control Systems Division, The Hague, The Netherlands.)
- ◆ C. Serkan Karagöz . “A Mobile Assembler Robot”, Ph.D. Thesis, 2001. (Currently Manufacturing – Control Engineer, Ford Motor Company, Cologne Engine Plant, Koln, Germany.)

14. M.S. Thesis Direction

1. H. Bayram. “ Robot Parts’ Rearrangement – Sensor Uncertainty Reduction Using Particle Filters”, M.S. Thesis, 2006 (Prof. Dr. Ayşın Ertüzün as co-advisor)
2. M. Karadeniz.”A Novel Sonar Development Platform: Dual Frequency Sonar Beam Shaping for Angular Localization”, M.S. Thesis, 2006.
3. Ç. Dikici. “Fovea Based Coding for Video Streaming”. M.S. Thesis, 2004.
4. G. Çakıroğlu. “Complex Attentional Sequences in Selective Perception”, M.S. Thesis, 2003.
5. M. Yusufoglu. “Combination of Behaviors in Autonomous Robot Assembly in 2D”, M.S. Thesis, 2002. (Currently a first-year Ph.D. student in the same Department.)
6. H. Yalçın. “Theoretical and Practical Aspects of 2D Shape Assessment using Selective Fixations,” M.S. Thesis, 1999. (Currently a Ph.D. student in the EE Department at Brown University, Rhode Island, USA.)
7. E. Kemik. “Model-Based Multi-Objective Analysis on Ultrasound Images in Prenatal Diagnosis”, M.S. Thesis, 1996. (Currently working in Hewlett-Packard, Istanbul.)
8. Burak Özer. “Computer-Aided Quality Control in Automobile Industry”, M.S. Thesis, 1995 (Prof. Dr. Bülent Sankur as co-advisor). (Currently Postdoctoral Fellow, EE Department, Princeton University.)
9. Şebnem Zorlu. “Superquadrics-Based Quality Control for 3D Objects”, M.S. Thesis, 1995 (Prof. Dr. Bülent Sankur as co-advisor).
10. Çağatay Soyer. “Biologically Motivated Vision”, M.S. Thesis, 1995 (Prof. Dr. Yorgo İstefanopulos as co-advisor).

11. Metin Sitti. “Visual Tracking of a Moving Target by a Camera: A Combination of Control and Vision”, M.S. Thesis, 1994 (Prof. Dr. Ahmet Denker as co-advisor). (Currently Assistant Professor, Mechanical Engineering Department, Carnegie-Mellon University, Pittsburg, USA.)
12. C. Serkan Karagöz . “A Game-Theoretic Approach to Assembly “, M.S. Thesis, 1993.

15. Languages: Turkish, English, French, German.

16. Administrative Activities

Boğaziçi University Scholarship Committee Member, 1995-present.

17. Publications:

Journal Papers

1. Soyer, Ç., H.I. Bozma. “APES – Biologically Motivated Attentive Robot”, *Autonomous Robots*, pp: 61-80, January 2006.
2. Karagöz, C.S., **H.I. Bozma**, D.E. Koditschek. “Event-Driven Assembler Robot”, *IEEE Transactions on Robotics and Automation*, V 20 No 6, pp: 1012-1018, December 2004.
3. Dikici, Ç., **H.I. Bozma** And E. Civanlar. “ Fovea Based Coding For Video Streaming”, *Lecture Notes In Computer Science* ,3211: 285-294 2004.
4. Soyer, Ç., **H.I. Bozma**, Y. Istefanopulos. ‘Attentional Sequence Based Recognition: Markovian and Evidential Reasoning’, *IEEE Transactions on Systems, Man and Cybernetics - Part B: Cybernetics*, V 33, No 6, pp: 937-950, December 2003.
5. **Bozma, H.I.**, G. Çakıroğlu, Ç. Soyer. “Biologically Inspired Cartesian and Non-Cartesian Filters for Attentional Sequences”, *Pattern Recognition Letters (SCI)*, Vol. 24/9-10, pp 1261 – 1274 , June 2003 .
6. Karagöz, C. K., **H. I. Bozma**, D.E. Koditschek. “EDAR – A Mobile Robot for Parts’ Moving Based on a Game-Theoretic Approach”, *IEE Electronics Letters (SCI)*, Issue 3 Vol. 38, pp: 147-148, 2002.
7. **Bozma, H.I.** and H. Yalçın, “Visual Processing and Classification of Items on a Moving Conveyor: A Selective Perception Approach”, *Robotics and Computer Integrated Manufacturing (SCI)*, Vol. 18, pp:125-133, 2002.
8. **Bozma, H.I.** and D.E.Koditschek. “Assembly as a Noncooperative Game of its Pieces: Analysis of 1D Sphere Assemblies”, *Robotica (SCI)*, pp: 93-108, Jan 2001.
9. **Bozma, H.I.** “Computation of Nash Equilibria-Admissibility of Parallel Gradient Descent”, *Journal of Optimization Theory and Applications (SCI)*, Vol. 90, No: 1, pp: 45-61, 1996.
10. **Bozma, H.I.** and J. Duncan. “A Game-Theoretic Approach to Integration of Modules”, *IEEE Transactions on Pattern Recognition and Machine Intelligence (SCI)*, Vol. 16, No 11, pp:1074-1086, 1994.
11. **Bozma, H.I.** and J. Duncan. “A Modular System for Image Analysis Using a Game-Theoretic Framework”, *Image and Vision Computing (SCI)* , Vol. 10, No 6, pp:431-443,1992.
12. **Bozma, H.I.** and J.S. Duncan, “Model-Based Recognition of Multiple Deformable Objects Using Game-Theoretic Framework”, *Lecture Notes In Computer Science* 511: 358-372 1991.

Technical Reports

1. Karagöz, C.S., **H.I. Bozma**, D.E. Koditschek. “Coordinated Navigation of Multiple Independent Disk-Shaped Robots”, University of Michigan, Ann Arbor, EECS Department Technical Report CSE-TR-486-04, 2004.

International Conference Papers

1. Ilhan, B.D., O. Erkent and **H. I. Bozma**. Saccades and Fixating Using Artificial Potential Functions, Proceedings of IEEE/IRJ Conference on Intelligent Robots and Systems, pp: 5819-5824, 2006.
2. H. Bayram, E. Ertuzun and **H.I. Bozma**. “Reactive Rearrangement of Parts under Sensor Inaccuracy: Particle Filter Approach”, Proceedings of IEEE International Conference on Robotics and Automation, pp: 2029-2034, May 17-19, Orlando, FL, 2006.
3. Dikici, Ç., **H.I. Bozma**. “Video Coding Based on Pre-Attentive Processing”, SPIE 2005, San Jose, CA, Jan 2005.
4. Çakıroğlu, G. and **H.I. Bozma**. “Dynamic Integration for Scene Recognition Using Complex Attentional Sequences”. Intelligent Autonomous Systems 8, pp:21-28, 10-13 March 2004, Netherlands.
5. Soyer, Ç., **H.I. Bozma** and Y. İstefanopulos, “APES – Actively Perceiving Robot”, Proceedings of IEEE/RSJ International Conference on Robots and Systems, Switzerland, pp:116-121, October 2002.
6. Soyer, Ç., **H.I. Bozma** and Y. İstefanopulos, “A New Memory Model for Selective Perception Systems”, Proceedings of IEEE/RSJ International Conference on Robots and Systems, pp:2304-2309, Japan October 2000.
7. Karagöz, C. S., **H.I. Bozma** and D.E. Koditschek. “Event-Driven Parts' Moving in 2D Endogeneous Environments”, Proceedings of IEEE International Conference on Robotics and Automation”, pp:1076-1081, San Fransisco, CA, April 2000.
8. Göktürk, S.B., L. Akarun and **H.I. Bozma**. “Automated Inspection of PCB’s Using a Novel Approach”, *Proceedings of 1999 IEEE/EURASIP Workshop on Nonlinear Signal Processing and Image Processing*, Antalya 1999.
9. Yalçın, H., **H.I. Bozma**. “An Automated Inspection System with Biologically Inspired Vision”, Proceedings of IEEE/RSJ International Conference on Robots and Systems, pp:1808-1813, Victoria, BC, Canada 1998.
10. Soyer, Ç., **H.I. Bozma**. “Further Experiments in Classification of Attentional Sequences: Combining Instantaneous and Temporal Evidence”, Proceedings of 8th International Conference on Advanced Robotics, pp: 991-998, July 7-9 1997.
11. **Bozma, H.I.** and E. Kemik. “Model-Based Multi-Objective Analysis of Ultrasound Image Sequences in Prenatal Diagnosis”, Proceedings of IEEE 1997 International Conference on Computer Vision and Pattern Recognition, pp: 942-947, 1997.
12. Yalçın, H., M. Tezol, **H.I. Bozma**. “BUVIS - A Novel Approach to Real-Time Automated Visual Inspection”, *1997 DSP Challenge - European TOP 20 Entries*, pp:9-38, 1997.
13. Soyer, Ç., **H.I. Bozma** and Y. İstefanopulos. “A Mobile Robot with a Biologically Motivated Vision System”, Proceedings of IEEE/RSJ International Conference on Intelligent Robots and System, Osaka, Japan 1996.
14. **Bozma, H.I.**, C.S. Karagöz & D.Koditschek. “Assembly as a Noncooperative Game of its Pieces: The Case of Endogeneous Disk Assemblies”, Proceedings of 1995 IEEE International Symposium on Assembly and Task Planning, pp:2-8, August, 1995, Pittsburg, PA, USA.
15. Sitti, M., **H.I. Bozma** and A. Denker. “Visual Tracking for Moving Multiple Objects: An Integration of Vision and Control”, Proceedings of IEEE ISIE’95, Greece, June 1995.
16. Bekiroğlu, N., **H.I. Bozma** and Y. İstefanopulos. “Model Reference Adaptive Approach to Sliding Mode Control”. Proceedings of the American Control Conference, pp:1028-1032, 1995.

17. **Bozma, H.I.** and Ç. Soyer. "Shape Identification Using Probabilistic Models of Attentional Sequences ", Proceedings of MVA'94: IAPR Workshop on Machine Vision Applications, Kawasaki, Japan, December 1994.
18. **Bozma, H.I.** and N. Bekiroğlu. "A Differential Game-Theoretic Approach to Sliding Mode Control", Proceedings of 8th IEEE International Symposium on Intelligent Control, 435-438, Chicago, 1993.
19. **Bozma, H.I.** and E. Ertin. "Cooperation of Visual Motion Estimation with Segmentation", Proceedings of Eight Workshop on Image and Multidimensional Signal Processing, Cannes, 1993.
20. **Bozma, H.I.** and J.S. Duncan. "Noncooperative Games for Decentralized Integration Architectures in Modular Systems", *Proceedings of IEEE International Workshop on Intelligent Robots and Systems*, Osaka, Japan, pp:431-443, December, 1991.
21. **Bozma, H.I.** and J.S. Duncan. "Sequential and Parallel Models in Noncooperative Games for Decentralized Decision Making in Vision Systems", *Proceedings of IEEE International Conference on Systems, Man and Cybernetics, Charlottesville, Virginia*, pp:1259-1264, October 1991.
22. **Bozma, H.I.** and J.S. Duncan. "A Decentralized Architecture for Integrating Multiple Sensors and Processes Based on Game-Theoretic Setting", *Proceedings of IEEE Seventh Workshop on Multidimensional Signal Processing*, Lake Placid, New York, pp:10.6, September, 1991.
23. **Bozma, H.I.** and J.S. Duncan, "Integration of Vision Modules: A Game-Theoretic Framework", *Proceedings of IEEE Conference on Computer Vision and Pattern Recognition*, Maui, Hawaii, pp:501-507, June, 1991.
24. Duncan, J.S., L.H. Staib, T.Birkholzer, R. Owen, P. Anandan and **H.I. Bozma**. "Medical Image Analysis Using Model-Based Optimization", *Proceedings of 1st Conference on Visualization in Biomedical Computing*, San Fransisco, CA, 1990.
25. **Bozma, H.I.** and J.S. Duncan. "Admissibility of Constraint Functions in Relaxation Labeling", *Proceedings of Second International Conference on Computer Vision*, pp:328-332, Tampa, FL, 1988.
26. Schaefer, P.R., **H.I. Bozma** and R.D. Beer. "Knowledge-Based Validity Maintenance for Production Systems ", *Proceedings of Conference of American Association for Artificial Intelligence*, Colorado, 1986.
27. Schaefer, P.R., **H.I. Bozma** and R.D. Beer. "Extended Production Rules for Validity Maintenance", *Proceedings of IEEE Conference on Artificial Intelligence Applications*, Florida, 1985.
28. Pao, Y.H., T.DyLiacco and **H.I. Bozma**. "Acquiring a Qualitative Understanding of System Behavior through AI Inductive Inference", *Proceedings of IFAC Symposium on Planning and Operation of Electric Energy Systems* , Rio Janeiro, 1985.

National Journal Papers

1. **Bozma, H.I.** ve Emre Ertin. "Visual Motion Estimation and Segmentation Using Nash Games", İTÜ Bülteni, 1993.

National Conference Papers

1. Haluk Bayram, Ayşın Ertüzün, H. Işıl Bozma. "Taşıyıcı Robotların Algılama Belirsizliğinde Parçacık Süzgeç Başarım Analizi ", TOK 2006, Ankara, Kasım 2006.
2. İlhan, B.D., O. Erkent and H. I. Bozma. "Yapay Gizilgüç İşlevleriyle Odaklanma Amaçlı Hızlı Hareketler", TOK 2006, Ankara, Kasım 2006.
3. H. Bayram, E. Ertuzun and H.I. Bozma, Doğrusal Olmayan Sistemlerdeki Algılama Belirsizliğin Parçacık Süzgeçler ile Azaltılması, SIU, Antalya, Mayıs 2006.
4. Çakıroğlu, G. , H.I. Bozma. "Seçici Algılamada Karmaşık Odaklama Dizilerinin Kullanımı", 11. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, ss:180-183, Haziran 2003.

5. Dikici, Ç., H.I. Bozma, R. Civanlar, U.A. Alp, H. Ayaz, M. Karadeniz. “İlgiye Dayalı Gerçek Zamanlı Robot-Video Kodlama ve İletimi”, 11. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, ss:75-78, Haziran 2003.
6. Alp, U., H. Ayaz, M. Karadeniz, Ç. Dikici, H.I. Bozma. “İnternet Üzerinden Uzaktan Robot Erişimi”, 11. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, ss: 540-543, Haziran 2003.
7. Açar, E., H.I. Bozma. “Baskılı Devre Kartlarının Otomatik Kontrolü”, 11. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, ss:813-816, Haziran 2003.
8. Göktürk, S.B., **H.I. Bozma** ve L. Akarun. “Baskılı Devre Kartlarının Yeni bir Yöntemle Otomatik Denetimi”, *Sinyal İşleme ve Uygulamaları Kurultayı*, pp: 346-351, Ankara 1999.
9. Yalçın, H., **H.I. Bozma**, “Şekil Özelliklerinin Seçici Algı ve Potansiyel Fonksiyonlar ile Tespit Edilmesi”, *Sinyal İşleme ve Uygulamaları Kurultayı*, pp: 352-357, Ankara 1999.
10. Soyer, Ç., **H.I. Bozma**. “İlgi Dizinlerinin Destek Fonksiyonlarıyla Modellenmesi ve Sınıflandırılması”, Biyomedikal Mühendisliği Ulusal Toplantısı Bildiriler Kitabı , pp: 26-30, İstanbul 1998.
11. Yalçın, H., **H.I. Bozma**. “Dairesel Nesnelerin Seçici Algı Kullanılarak Tespit Edilmesi”, Sinyal İşleme ve Uygulamaları Kurultayı, Kuşadası, 1997.
12. Zorlu, Ş., **H.I. Bozma** ve B. Sankur. “Endüstriyel Nitelik Denetiminde Üç Boyutlu Süperkarele Moment Değişmezlerinin Kullanımı”, Sinyal İşleme Kurultayı Bildirimler Kitabı, pp: 190-195, Kemer 1996.
13. Özer, B., **H.I. Bozma** ve B. Sankur. “İmalatta Nitelik Denetim Amaçlı Biçimdeğiştirilebilir Yüzey Kullanımında Ayırıklaştırma ve Erişim Yöntemleri”, Sinyal İşleme Kurultayı Bildirimler Kitabı, pp: 196-201, Kemer 1996.
14. Soyer, Ç., **H.I. Bozma** ve Y. İstefanopulos, “Biyolojik olarak esinlenmiş Yapay Görme Sistemine Sahip Bir Gezgın Robot Prototipi”, Sinyal İşleme Kurultayı Bildirimler Kitabı, pp: 287-292, Kemer 1996.
15. Zorlu, Ş., **H.I. Bozma** ve B. Sankur, “Süperkarele Yüzeylerin Endüstriyel Nitelik Denetiminde Kullanımı”, Sinyal İşleme Kurultayı Bildirimler Kitabı, pp: 181-186, Nevşehir 1995.
16. Özer, B., **H.I. Bozma** ve B. Sankur, “Biçimdeğiştirilebilir Yüzeyler Yardımıyla İmalatta Nitelik Denetimi”, Sinyal İşleme Kurultayı Bildirimler Kitabı, pp: 69-74, Nevşehir 1995.
17. Sitti, M., **H.I. Bozma** ve A. Denker, “Yapay Görme Sayesinde Taşıyıcı Bir Bant Üzerinde Hareket Eden Cisimlerin Yakalanması”, Sinyal İşleme Kurultayı Bildirimler Kitabı, pp: 63-68, Nevşehir 1995.
18. Bekiroğlu, N., **H.I. Bozma**. “Uyarlamalı Kayan Kipli Denetim”, Otomatik Kontrol Bilimsel Toplantısı Bildirimler Kitabı, pp:271-282, 1994.
19. **Bozma, H.I.**, C.S. Karagöz. “Parçaların İşbiriksiz bir Oyunla Montajı”, Otomatik Kontrol Bilimsel Toplantısı Bildirimler Kitabı, pp:149-154, 1994.
20. **Bozma, H.I.** “Otonom Makinelerin Tasarımında Bazı İlkeler”, Mekatronik Tasarım ve Modelleme Çalışma Toplantısı Bildirimler Kitabı , pp: 183-191, 1993.
21. **Bozma, H.I.** ve C.Serkan Karagöz. “Montaj Otomasyonuna Oyun Kuramsal bir Yaklaşım”, Yöneylem Araştırması ve Endüstri Mühendisliği XV. Ulusal Kongresi Bildiriler Kitabı, 1993.

Book Chapters

Pao, Y.H. and **H.I. Bozma**. “Quantization of Numerical Sensor Data for Inductive Learning” in Coupling Symbolic and Numerical Computing in Expert Systems, Kowalik and Kitzmiller (eds.) North-Holland, 1988.

Course Manual

EE 140 Digital Design – Laboratory Manual.