

C U R R I C U L U M V I T A E

H. ALTAY GÜVENİR

İ. D. Bilkent University
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Birth Date and Place: 16 November 1957, Bursa, Turkey

Citizenship: Turkish citizen

Marital Status: Married, father of two children

Languages: Turkish (Native), English (Fluent)

AREAS OF SPECIALIZATION

Artificial Intelligence, Machine Learning, Data Mining, Intelligent Data Analysis

EDUCATION

1987 Ph.D., Case Western Reserve University, Ohio (Computer Engineering and Science)

1981 M.S., Istanbul Technical University (Electrical Engineering)

1979 B.S., Istanbul Technical University (Electrical Engineering)

Ph.D. Thesis

Title: Learning Problem Solving Strategies Using Refinement and Macro Generation

Advisor: George W. Ernst

POSITIONS HELD

2020 - present *Dean*, Faculty of Applied Sciences, İ. D. Bilkent University, Ankara

2015 - 2020 *Director*, Bilkent University - TÜSİAD Information Society Forum, Ankara

2001 - 2019 *Chairman*, Department of Computer Engineering, İ. D. Bilkent University, Ankara

2001 - present *Full Professor*, İ. D. Bilkent University, Ankara

1997 - 2001 *Vice Chairman*, Department of Computer Engineering, Bilkent University, Ankara

1994 - 2001 *Associate Professor*, Bilkent University, Ankara

1988 - 1994 *Assistant Professor*, Bilkent University, Ankara

1987 - 1988 *Assistant Professor*, Hacettepe University, Ankara

1987 *Associate Researcher*, Tantalus Inc., Ohio (part-time)

1985 *Knowledge Engineer*, Center for Automation and Intelligent Systems Research, CWRU, Ohio

1979 -1982 *Graduate Research and Teaching Assistant*, Istanbul Technical University, Istanbul

HONORS and AWARDS

- 2020** Received Bilkent University Distinguished Teaching Award.
- 1999** Received the First Prize in TÜBİTAK - Hüsamettin Tuğçe Foundation Research Award.
- 1998** Listed in Marquis Who's Who in the World.
- 1994** Received “Recognition of Service Award” in appreciation for contributions to the Association for Computing Machinery.
- 1982 - 1987** Received scholarship from The Ministry of Education of Turkey granted for Ph.D. in the U.S.A.

GRANTS

- Experienced Researcher on AI, “CULTURATI: Customized Games and Routes for Cultural Heritage and Art” Sponsored by European Research Executive Agency (REA), Contract No: 101094428 — CULTURATI, 2,389,941.69 Euros, February 2023 - January 2026.
- Project Manager, “Industrial Doctorate Project on Artificial Intelligence in collaboration between İ. D. Bilkent University and Huawei,” Sponsored by Scientific and Technical Research Council of Turkey (TÜBİTAK), Contract No: 118C154. 1,255,728 TL, February 2019 - February 2026.
- Researcher, “Teaching, Research, Innovation in Computing Education,” Sponsored by Socrates / Erasmus Programme, Grant No: 142399-LLP-1-2008-1-BG-ERASMUS-ENW Bilkent Share: 6,000 Euros. October 2008 - September 2011.
- Researcher, “European Thematic Network for Doctoral Education in Computing,” Sponsored by Socrates / Erasmus Programme, Grant No: 114046-CP-1-2004-1-BG-ERASMUS-TN. Bilkent Share: 5,750 Euros. October 2004 - September 2007.
- Researcher, “BTT-TÜRKİYE: Türkiye için Yeni Bilgi Toplumu Teknolojileri,” Sponsored by Scientific and Technical Research Council of Turkey (TÜBİTAK), Contract No: 105E065. YTL 520,000, December 2005 - December 2008.
- Project Manager (Principal Investigator), “A Tool for Visually Handicapped People,” Sponsored by Microsoft Research Ltd. Contract No: 2003-239. USD 15,000, June 2003 - June 2004.
- Project Manager (Principal Investigator), “Development of Benefit Maximization and Interesting Rule Learning Algorithms for Feature Projection Based Classification Systems,” Sponsored by Scientific and Technical Research Council of Turkey (TÜBİTAK), Contract No: 101E044. USD 5,400, March 2002 - September 2003.
- Project Manager (Principal Investigator), “Continuous Function Approximation Using Feature Projections,” Sponsored by the Scientific and Technical Research Council of Turkey (TÜBİTAK), Contract No: 198E015. USD 2,873, February 1999 - August 2000.
- Researcher, “Learning Translation Templates from Bilingual Translation Examples Using Machine Learning Techniques.” Sponsored by Scientific and Technical Research Council of Turkey (TÜBİTAK), Contract No: EEEAG-244. USD 13,000, August 1997 - August 1999.

- Project Manager (Principal Investigator), “Development of Batch Machine Learning Techniques for Multi-Concept Descriptions in the form of Feature Partitioning and Overlapping Feature Intervals” Sponsored by Scientific and Technical Research Council of Turkey (TÜBİTAK), Contract No: EEEAG-153. USD 25,600, August 1995 - August 1997.
- Researcher, “Turkish Natural Language Processing Initiative: Developing Computational Foundations and Applications for Natural Language Processing in Turkish.” Sponsored by NATO Science for Stability Programme III, Project name: TU-LANGUAGE. USD 600,000, January 1994 - January 1999.
- Project Manager, “Design of Databases and Expert Systems for Capital Markets Board.” Sponsored by The Capital Markets Board of Turkiye. No: MFBF.91-04. USD 15,000, April 1991 - November 1991.

EDITORSHIP

- *ISRN Artificial Intelligence*, Hindawi Publishing Corp., (in English), 2011 - 2014.
- *EMO Scientific Journal*, The Chamber of Electrical Engineering, (in Turkish), 2010 - present.
- *Journal of Computer Science and Engineering*, Turkish Informatics Foundation, (in Turkish), 2010 - 2016.

GUEST EDITORSHIP

- *Elektrik: Turkish Journal of Electrical Engineering & Computer Sciences*, TÜBİTAK, vol. 12, no. 1, 2004.

PROFESSIONAL ACTIVITIES

EXECUTIVE COMMITTEES

- **2000 - 2003** Member of Electric-Electronics-Information Field Committee, TÜBİTAK - TİDEB

ACADEMIC MEETINGS

- Member of Program Committee, 3rd International Conference on Artificial Intelligence and Machine Learning (CAIML 2022), Toronto, Canada (July 23-24, 2022)
- Member of Scientific Program Committee, Executive Copmmitee, 5th International Conference on Computer Science and Engineering UBMK'20, Diyarbakir, Turkey (online), (Sept. 9-11, 2020)
- Member of Advisory Board, Bilgisayar Mühendisleri Kurultay, Ankara, Turkey, (Nov. 23-24, 2019)
- Advisory Chair, The 15th Summer Workshop on Multimodal Interfaces, Ankara, Turkey, (July 8 - Auggust, 2019)

- Member of Intelligent Data Mining Program Committee, 2nd Special Session on Intelligent Data Mining at IEEE International Conference on Big Data (IEEE BigData 2016), Washington D.C., USA, (Dec. 5-8, 2016)
- Member of Program Committee, International Symposium on Brain and Cognitive Science (ISBCS 2014), Istanbul, Turkey, (April 20, 2014)
- Member of International Program Committee, Workshop on Pattern Analysis and Recognition (PAR'2010), Caen, Normandy, France, (June 28 – July 2, 2010)
- Member of Program Committee, The 15th Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE), Ankara, Turkey, (June 26-30, 2010)
- Chair, III. Ulusal Yazılım Mühendisliği Sempozyumu, Ankara, Turkey, (Sept. 27-29, 2007)
- Local Chair, European Conference on Case-Based Reasoning (ECCBR'2006), Fethiye, Turkey, (Sept. 4-7, 2006)
- Member of the Advisory Board, Turkish Symposium on Artificial Intelligence and Neural Networks, (May 1997 - March 2004)
- Coordinator of the Advisory Board, Turkish Symposium on Artificial Intelligence and Neural Networks, (May 1997 - 2004)
- Member of Program Committee, The Fourteenth Turkish Symposium on Artificial Intelligence and Neural Networks (TAINN'2005), Izmir, Turkey, (June 16-17, 2005)
- Member of Program Committee, The Thirteenth Turkish Symposium on Artificial Intelligence and Neural Networks (TAINN'2004), Izmir, Turkey, (June 10-11, 2004)
- Member of Program Committee, Seventh International Conference on Knowledge-Based Intelligent Information & Engineering Systems (KES2003), Oxford, UK, (September 3 - 5, 2003)
- Member of Program Committee, The 15th International FLAIRS Conference, (FLAIRS'2003), Special Track on Machine Learning Pensacola, Florida, USA, (May 11 - 15, 2003)
- Member of Program Committee, The Twelfth Turkish Symposium on Artificial Intelligence and Neural Networks (TAINN'2003), Canakkale, Turkey, (July 2-4, 2003)
- Member of Program Committee, The Eleventh Turkish Symposium on Artificial Intelligence and Neural Networks (TAINN'2002), Istanbul, Turkey, (June 20-21, 2002)
- Member of Program Committee, The Tenth Turkish Symposium on Artificial Intelligence and Neural Networks (TAINN'2001), Turkish Republic of Northern Cyprus, (June 21-22, 2001)
- Member of Program Committee, The 14th International FLAIRS Conference, (FLAIRS'2001), Key West, Florida, (May 21 - 23, 2001)
- Member of Program Committee, The 6th International Conference on Information Systems Analysis and Synthesis (SCI/ISAS'2000), Orlando, Florida, (July 23 - 26, 2000)
- Member of Program Committee, The Ninth Turkish Symposium on Artificial Intelligence and Neural Networks (TAINN'2000), İzmir, (June 21-23, 2000)

- Member of Program Committee, Elektrik-Elektronik-Bilgisayar Mühendisliği, 8. Ulusal Kongresi, (Sept. 6-12, 1999).
- Member of Program Committee, The 5th International Conference on Information Systems Analysis and Synthesis (ISAS'99), Orlando, Florida, (July 31 - August 4, 1999)
- Member of Program Committee, The 16th International Conference on Machine Learning (ICML'99), Bled, Slovenia (June 27-30, 1999)
- Member of Program Committee, The 13th International Symposium on Computer and Information Sciences (ISCIS'98), Antalya, Turkey (October 26-28, 1998)
- Member of Program Committee, World Multiconference on Systemics, Cybernetics And Informatics (SCI'98), Orlando, Florida (July 12-16, 1998)
- Member of Program Committee, 8th International Conference on Artificial Intelligence: Methodology, Systems, Applications (AIMSA'98) Sozopol, Bulgaria, (September 23-23, 1998)
- Program Committee Co-Chair, The Seventh Turkish Symposium on Artificial Intelligence and Neural Networks (TAINN'98) Bilkent, Ankara, (June 24-26, 1998)
- Member of Program Committee, The Twelfth International Symposium on Computer and Information Sciences (ISCIS XII), Antalya, Turkey (October 27-29, 1997)
- Member of Program Committee, World Multiconference on Systemics, Cybernetics And Informatics (SCI'97), Caracas, Venezuela (July 7-11, 1997)
- Member of Program Committee, The Sixth Turkish Symposium on Artificial Intelligence and Neural Networks (TAINN'97), Kizilcahamam, Ankara, (May 22-23, 1997)
- Member of Program Committee, 6th Workshop on Information Technologies and Systems (WITS'96), Cleveland, Ohio USA (December 14-15, 1996)
- Member of Program Committee, 7th International Conference on Artificial Intelligence: Methodology, Systems, Applications (AIMSA'96) Sozopol, Bulgaria, (September 18-20, 1996)
- Member of Program Committee, International Conference on New Methods in Language Processing (NeMLAP2), Ankara, Turkey (September 16-18, 1996)
- Member of Program Committee, International Conference on Information Systems Analysis and Synthesis (ISAS'96), Orlando, USA (July 22-26, 1996)
- Member of Program Committee, The Fourth Turkish Artificial Intelligence and Neural Networks Symposium (TAINN'96), Istanbul, Turkey (June 27-28, 1996)
- Chairman, The Fourth Turkish Artificial Intelligence and Neural Networks Symposium (TAINN'95), Gebze, Turkey (June 26-28, 1995)
- Member of Advisory Board, and Program Committee, The Third Turkish Artificial Intelligence and Neural Networks Symposium (TAINN'94), Ankara, Turkey (June 22-24, 1994)
- Member of Program Committee, Otomaston ve Bilgisayar Sempozyumu, Istanbul, Turkey (April 8-9, 1994)

- Member of Program Committee, The Second Turkish Artificial Intelligence and Neural Networks Symposium (TAINN'93), Istanbul, Turkey (June 1993)
- Member of the Organizing Committee and Program Committee, The First Turkish Artificial Intelligence and Neural Networks Symposium (TAINN'92), Ankara, Turkey (25-26 June, 1992)
- Member of Program Committee, The Sixth International Symposium on Computer and Information Sciences (ISCIS VI), Antalya, Turkey (October 30 - November 2, 1991)

COURSES TAUGHT

Bilkent University, Department of Computer Engineering.

- **CS 553 Intelligent Data Analysis**, Graduate Level
- **CS 558 Data Mining**, Graduate Level
- **CS 550 Machine Learning**, Graduate Level
- **CS 556 Readings in Natural Language and Machine Learning**, Graduate Level
- **CS 561 Selected Topics in Artificial Intelligence I**, Graduate Level
- **CS 562 Selected Topics in Artificial Intelligence II**, Graduate Level
- **CS 576 formal Languages and Automata Theory**, Graduate Level
- **CS 476 Automata Theory and Formal Languages**, Senior Level
- **CS 461 Artificial Intelligence**, Senior Level
- **CS 462 Logic Programming and Expert Systems**, Senior Level
- **CS 315 Programming Languages**, Junior Level
- **CS 101 Introduction to Programming I**, Freshman Level
- **CS 102 Introduction to Programming II**, Freshman Level
- **ENG 401 Presentation of Technical Material**, Senior Level

Hacettepe University, Department of Computer Engineering and Science.

- **BIL 650 Expert Systems**, Graduate Level
- **BIL 300 Logic Design I**, Junior Level

THESES SUPERVISED

Ph.D. THESES

- Tolga Aydin, *Modeling Interestingness of Streaming Association Rules as a Benefit Maximizing Classification Problem*, January 2009.
- Faruk Polat, *A Negotiation Platform for Cooperating Multi-Agent Systems*. December 1993.

M.S. THESES

- Irmak Türköz, *Multi-Label Multi-Modal Classification of Movie Scenes* September, 2022.
- Emre Doğan, *Towards A Taxonomy of Code Review Smells* September, 2020.
- Seren Özbek, *Early Diagnosis of Breakdown Through Transfer Learning*. June, 2019.
- Noushin Salek Faramarzi, *A Privacy-Preserving Solution for the Bipartite Ranking Problem on Spark Framework*. July, 2017.

- Gizem Mısırlı, *Estimating the Chance of Success and Suggestion for Treatment in IVF*. August, 2013.
- Murat Kurtcephe, *Risk Estimation by Maximizing Area Under Receiver Operating Characteristics Curve with Application to Cardiovascular Surgery*. July, 2010.
- Ayşen Tunca, *Predicting Risk of Mortality in Patients Undergoing Cardiovascular Surgery*. September 2008.
- Nazlı İkizler, *Benefit Maximizing Feature Projection Based Classifier*. September 2002.
- Berkan Yalçıkaya, *Predicting Next Page Access by the Length Reference in the Scope of Effective Use of Resources*. September 2002.
- Esra Satiroğlu, *Mining User Access Patterns and Identity Information from Web Logs for Effective Personalization*. September 2001.
- Hakan Kurt, *On-Line New Event Detection and Tracking in a Multi-Resource Environment*. September 2001.
- Ufuk İlhan, *Feature Projections Based Text Categorization*. February 2001.
- Ferhat Kutlu, *Categorization in a Hierarchically Structured Text Database* February 2001.
- Tolga Aydin, *Regression by Selecting Best Features*. September 2000.
- İlhan Uysal, *Instance-Based Regression by Partitioning Feature Projections* January, 2000.
- Gülşen Demiröz, *Non-incremental Classification Learning Algorithms Based on Voting Feature Intervals*, August, 1997.
- Aynur Akkuş, *Batch Learning of Disjoint Feature Intervals*, September, 1996.
- Hakime Ünsal Koç, *Classification with Overlapping Feature Intervals*, January 1995.
- İzzet Şirin, *Learning with Feature Partitions*, August 1993.
- Emel Cankat, *An Object Oriented Intelligent Tutoring System for Teaching Set Theory*, June 1991.
- Faruk Polat, *Knowledge Base Verification in an Expert System Shell*, June 1989.
- İ. Hakkı Toroslu, *Design and Implementation of an Object-Oriented Expert System Shell*, June 1989.

PUBLICATIONS

JOURNAL PAPERS

1. Deniz Katircioglu-Ozturk, H. Altay Güvenir, Ursula Ravens, Nazife Baykal, “A Window-Based Characterization Method for Biophysical Time Series,” *Computers in Biology and Medicine*, DOI: <http://dx.doi.org/10.1016/j.combiomed.2017.08.011> Vol. 89, (2017), pp. 466-486.
2. Emre Oto, Sercan Okutucu, Deniz Katircioglu-Ozturk, Halil Altay Güvenir, Ergun Karaagaoglu, Martin Borggrefe, Günter Breithardt, Andreas Goette, Ursula Ravens, Gerhard Steinbeck, Karl Wegscheider, Ali Oto, Paulus Kirchhof, “Predictors of sinus rhythm after electrical cardioversion of atrial fibrillation: results from a data mining project on the Flec-SL trial data set”, *Europace*, DOI: <http://dx.doi.org/10.1093/europace/euw144> Vol. 19, Issue 6, (2017), pp. 921-928.
3. S. Okutucu, D. Katircioglu-Ozturk, E. Oto, H. A. üvenir, E. Karaagaoglu, A. Oto, T. Meinertz, and A. Goette, “Data mining experiments on the Angiotensin II-Antagonist in Paroxysmal Atrial Fibrillation (ANTIPAF-AFNET 2) trial: exposing the invisible”, *Europace*, DOI: <http://dx.doi.org/10.1093/europace/euw084>, Vol. 19, Issue 5, (2017), pp. 741-746.
4. B. Demir, I. Kahyaoglu, A. Guvenir, N. Yerebasmaz, S. Altinbas, B. Dilbaz, S. Dilbaz and L. Mollamahmutoglu, “Progesterone change in the late follicular phase affects pregnancy rates both agonist and antagonist protocols in normoresponders: a case-controlled study in ICSI cycles”, *Gynecological Endocrinology*, DOI 10.3109/09513590.2015.1121226, Vol. 19, Issue 6, (2016), pp. 921-928.
5. H. A. Güvenir, G. Misirli, S. Dilbaz, O. Ozdegirmenci, B. Demir, B. Dilbaz, “Estimating the chance of success in IVF treatment using a ranking algorithm”, *Medical & Biological Engineering & Computing*, DOI 10.1007/s11517-015-1299-2, Vol. 53, Issue 9, (2015), pp. 911-920.
6. U. Ravens, D. Katircioglu-Öztürk, E. Wettwer, T. Christ, D. Dobrev, N. Voigt, C. Poulet, S. Loose, J. Simon, A. Stein, K. Matschke, M. Knaut, E. Oto, A. Oto, H. A. Güvenir, “Application of the RIMARC Algorithm to a Large Data Set of Action Potentials and Clinical Parameters for Risk Prediction of Atrial Fibrillation”, *Medical & Biological Engineering & Computing*, DOI 10.1007/s11517-014-1232-0, Vol. 53, Issue 3, (2015), pp. 263-273.
7. H. A. Güvenir, M. Kurtcephe, “Ranking Instances by Maximizing the Area under ROC Curve”, *IEEE Transactions on Knowledge and Data Engineering*, Vol. 25, No. 10, (2013), pp 2356-2366
8. M. Kurtcephe, H. A. Güvenir, “A Discretization Method Based on Maximizing the Area Under Receiver Operating Characteristic Curve”, *International Journal of Pattern Recognition and Artificial Intelligence*, Vol. 27, No. 1, Art. No. 1350002, (2013).
9. K. D. Aral, H. A. Güvenir, I. Sabuncuoglu, A. R. Akar, “A Prescription Fraud Detection Model”, *Computer Methods and Programs in Biomedicine*, Vol. 106, No. 1, (2012), pp 37-46.
10. A. R. Akar, M. Kurtcephe, E. Sener, C. Alhan, S. Durdu, A. G. Kunt, H. A. Güvenir, and The working Group for the Turkish Society of Cardiovascular Surgery and Turkish Ministry of Health, “Validation of the EuroSCORE risk models in Turkish adult cardiac surgical

population”, *European Journal of Cardio-Thoracic Surgery*, Vol. 40, No. 3, (2011), 730-735.

11. H. A. Güvenir, M. Çakır, “Voting features based classifier with feature construction and its application to predicting financial distress”, *Expert Systems with Applications*, Vol. 37, No. 2, (2010), 1713-1718.
12. T. Aydin, and H. A. Guvenir, “Modeling interestingness of streaming association rules as a benefit-maximizing classification problem”, *Knowledge-Based Systems*, Vol. 22, No. 1, (2009), 85-99.
13. H. A. Güvenir, N. Emeksiz, N. İkizler, and N. Örmeci, “Diagnosis of gastric carcinoma by classification on feature projections”, *Artificial Intelligence in Medicine*, Vol. 31, No. 3, (2004), 231-240.
14. İ. Uysal and H. A. Güvenir, “Instance-Based Regression by Partitioning Feature Projections”, *Applied Intelligence*, Vol. 21, No. 1, (2004), 57-79.
15. B. Arı and H. A. Güvenir, “Clustered Linear Regression”, *Knowledge-Based Systems*, Vol. 15, No. 3, (2002), 167-173.
16. I. Cicekli and H. A. Güvenir, “Learning Translation Templates from Bilingual Translation Examples”, *Applied Intelligence*, Vol. 15, No. 1, (2001), 57-76.
17. H. A. Güvenir, and İ. Uysal, “Regression on Feature Projections”, *Knowledge-Based Systems*, Vol. 13, No. 4, (2000), 207-214.
18. H. A. Güvenir and N. Emeksiz, “An Expert System for the Differential Diagnosis of Erythemato-Squamous Diseases”, *Expert Systems With Applications*, Vol. 18, No. 1, (2000), 43-49.
19. İ. Uysal and H. A. Güvenir, “An Overview of Regression Techniques for Knowledge Discovery”, *The Knowledge Engineering Review*, Vol. 14, No. 4, (2000), 319-340.
20. H. A. Güvenir and I. Cicekli, “Learning Translation Templates from Examples”, *Information Systems*, Vol. 23, No. 6, (1998), 353-363.
21. H. A. Guvenir, G. Demiröz and N. İlter, “Learning Differential Diagnosis of Erythemato-Squamous Diseases using Voting Feature Intervals”, *Artificial Intelligence in Medicine*, Vol. 13, No. 3, (1998), 147-165.
22. H. A. Guvenir and H. G. Koç, “Concept Representation with Overlapping Feature Intervals”, *Cybernetics and Systems: An International Journal*, Vol. 29, No. 3, (1998), 263-282.
23. H. A. Guvenir and E. Erel, “Multicriteria Inventory Classification using a Genetic Algorithm”, *European Journal of Operational Research*, Vol. 105, (1998), 29-37.
24. H. A. Guvenir and I. Sirin, “Classification by Feature Partitioning” *Machine Learning*, Vol. 23, No. 1, (1996), 47-67.
25. H. A. Güvenir, “An Object-Oriented Tutoring System for Teaching Sets”, *ACM SIGCSE Bulletin*, Vol. 27, No. 3. (1995), 39-46.
26. F. Polat, S. Shekhar and H. A. Guvenir, “A Negotiation Platform for Cooperating Intelligent Systems”, *The International Journal of Concurrent Engineering: Research & Applications*, Vol. 1, No. 3. (1993), 179-187.

27. F. Polat, S. Shekhar and H. A. Guvenir, "Distributed Conflict Resolution among cooperating expert systems", *Expert Systems*, Vol. 10, No. 4, (November 1993), 227–236.
28. F. Polat and H. A. Guvenir, "UVT: A Unification-Based Tool for Knowledge Base Verification", *IEEE Intelligent Systems & Their Applications*, Vol. 8, No. 3, (June 1993), 69–75.
29. H. A. Guvenir and V. Akman, "Problem Representation for Refinement", *Minds and Machines*, Vol. 2, No. 3, (August 1992), 267–282.
30. F. Polat and H. A. Guvenir, "A Unification-based Approach for Knowledge Base Verification", *Expert Systems*, Vol. 8, No. 4, (November 1991), 251–259.
31. H. A. Guvenir and G. W. Ernst, "Learning Problem Solving Strategies Using Refinement and Macro Generation", *Artificial Intelligence*, Vol. 44, No. 1–2, (July 1990), 209–243.

BOOK CHAPTERS

1. İ. Çiçekli and H. A. Güvenir, "Learning Translation Templates from Bilingual Translation Examples", in: *Recent Advances in Example-Based Machine Translation*, Michael Carl and Andy Way (Eds.), Kluwer Academic Publishers, (2003), 255-286.

JOURNAL SPECIAL ISSUES

1. H. A. Güvenir, ed, *Turkish Journal of Electrical Engineering & Computer Sciences* Vol. 12, No. 1, (2004).

REFEREED CONFERENCE PROCEEDINGS

1. Bedirhan Sakinoglu and Altay Güvenir "Predicting the Risk of Death of Cryptocurrencies" in: *Proceedings of the IEEE International Conference on Omni-layer Intelligent Systems* (IEEE COINS 2023), Berlin, Germany, (July 23-25, 2023). DOI: 10.1109/COINS57856.2023.10189205
2. L. Fenercioglu, H. A. Güvenir, I. Türköz, "Movie Trailer Scene Classification based on Audio VGGish Features" in: *Proceedings of The 2022 International Conference on Machine Learning, Control, and Robotics* (MLCR 2022), Suzhou, China, (October 29-31, 2022).
3. I. Türköz and H. A. Güvenir, "Detection of Animated Scenes Among Movie Trailers," in: *Proceedings of the 18th International Conference on Machine Learning and Data Mining* (MLDM 2022), New York, USA, (July 16-21, 2022), pp. 179-189.
4. M. E. Turanboy, S. Ibrahimov, T. Duzceer, A. Orujaliyev, H. O. Kocahan, M. Sakalsiz, H. A. Guvenir, "An Application Using Blockchain for Banking Systems," in: *Proceedings of the 20th RSEP International Economics, Finance & Business Conference*, Vienna, Austria, (Feb. 17-18, 2021), pp. 19-24.
5. E. Doğan, E. Tüzün, K. A. Tecimer, H. A. Güvenir, "Investigating the Validity of Ground Truth in Code Reviewer Recommendation Studies," in: *Proceedings of the ACM/IEEE International Symposium on Empirical Software Engineering and Measurement*, Porto de Galinhas, Brazil, (Sept. 19-20, 2019). DOI: 10.1109/ESEM.2019.8870190
6. N. S. Faramarzi, E. Ayday, A. Güvenir, "A Privacy-Preserving Solution for the Bipartite Ranking Problem" in: *Proceedings of 15th IEEE International Conference on Machine Learning and Applications*, Anaheim, California, USA, (Dec. 18-20, 2016), art. no. 7838171, pp. 375-380.

7. B. Demir, H. Guvenir, I. Kahyaoglu, A. Turkkani, I. Kaplanaoglu, L. Mollamahmutoglu, “The Comparison of Factors Affecting the Chance of Clinical Pregnancy vs. Achieving Top Quality Embryo in ICSI Cycles: Using A New Ranking Algorithm (RIMARC)”, in: *Proceedings of 71st Annual Meeting of the American-Society-for-Reproductive-Medicine*, Baltimore, USA, (Oct. 17-21, 2015), *Fertility and Sterility*, Vol 103, Issue 3, E225-E225 Supplement: S Meeting Abstract: P-350.
8. B. Evranos, K. Aytemir, B. Yavuz, E. Oto, N. Ata, D. K. Ozturk, E. Karaagaoglu, A. Güvenir, S. Ozcan, E. Ertugay, R. Koselerli, A. Burkan, M. Kuruca, Y. G. Ilhan, J. Camm, A. Oto. “Hospitalization for Atrial Fibrillation Increases in the Elderly: Recent Analysis From TuRkish Atrial Fibrillation Data Base”, in: *Proceedings of Scientific Sessions and Resuscitation Science Symposium of the American-Heart-Association*, Dallas, USA, (Nov. 16-17, 2013), *Circulation*, Vol 128, Issue 22, S Meeting Abstract: 18783.
9. N. Ata, B. Yavuz, E. Oto, D. K. Ozturk, K. Aytemir, E. Karaismailoglu, A. Güvenir, S. Ozcan, E. Ertugay, R. Koselerli, A. Burkan, M. Kuruca, Y.G. Ilhan, J. Camm, A. Oto. “Characteristics of Atrial Fibrillation in Hemodialysis Patients”, in: *Proceedings of Scientific Sessions and Resuscitation Science Symposium of the American-Heart-Association*, Dallas, USA, (Nov. 16-17, 2013), *Circulation*, Vol 128, Issue 22, S Meeting Abstract: 19130.
10. T. Aydin and H. A. Güvenir, “A Novel Hybrid Approach for Interestingness Analysis of Classification Rules”, in *Proceedings of JSAI 2004 Conference* (JSAI 2004), Kanazawa, Japan (May/June 16-17, 2004, LNNAI 3609, Springer-Verlag, (2007) 485-496.
11. T. Aydin and H. A. Güvenir, “Modeling Interestingness of Streaming Classification Rules as a Classification Problem”, in *Proceedings of 14th Turkish Symposium on Artificial Intelligence and Artificial Neaural Networks* (TAINN 2005), Izmir, Turkey (June 16-17, 2005), LNNAI 3949, Springer-Verlag, 168-176.
12. T. Aydin and H. A. Güvenir, “Learning Interestingness of Streaming Classification Rules”, in *Proceedings of 19th International Symposium on Computer and Information Sciences* (ISCIS 2004), Antalya, Turkey (Oct. 27-29, 2004), LNCS 3280, Springer-Verlag, 62-71.
13. T. Aydin and H. A. Güvenir, “Incremental Classification Learning by Using Feature Projections”, in *Proceedings of the 13th Turkish Symposium on Artificial Intelligence and Artificial Neaural Networks* (TAINN’04), Izmir, Turkey (June 10-11, 2004), 129-138.
14. H. A. Güvenir, “Benefit Maximization in Classification on Feature Projections”, in: *Proceedings of the 3rd IASTED International Conference Artificial Intelligence and Applications* (AIA’03), Malaga, Spain (Sept. 8-10, 2003), 424–429.
15. N. İkizler and H. A. Güvenir, “Maximizing Benefit of Classifications Using Feature Intervals”, in: *Proceedings of 7th International Conference on Knowledge-Based Intelligent Information & Engineering Systems* (KES’2003), Oxford, United Kingdom (Sept. 3-5, 2003), LNNAI 2773, Springer-Verlag, Vasile Palade, Robert J. Howlett, Lakhmi Jain (Eds.), Part I, 339-345.
16. K. Altintas and H. A. Güvenir, “Learning Translation Templates for Closely Related Languages”, in: *Proceedings of 7th International Conference on Knowledge-Based Intelligent Information & Engineering Systems* (KES’2003), Oxford, United Kingdom (Sept. 3-5, 2003), LNNAI 2773, Springer-Verlag, Vasile Palade, Robert J. Howlett, Lakhmi Jain (Eds.), Part I, 756-762.

17. N. İkizler and H. A. Güvenir, “Feature Dependency in Benefit Maximization: A Case Study in the Evaluation of Bank Loan Applications”, in: *Proceedings of the Twelfth Turkish Symposium on Artificial Intelligence and Neural Networks* (TAINN’2003), Canakkale, Turkey (July 2-4, 2003), 225-233.
18. T. Aydin and H. A. Güvenir, “Feature Projection Based Rule Classification”, in: *Proceedings of the Twelfth Turkish Symposium on Artificial Intelligence and Neural Networks* (TAINN’2003), Canakkale, Turkey (July 2-4, 2003), 652-661.
19. K. M. Karakaya and H. A. Güvenir, “ARG: A Tool for Automatic Report Generation”, in: *Proceedings of the Eleventh Turkish Symposium on Artificial Intelligence and Neural Networks* (TAINN’2002), S. Arik and O. N. Ucan (Eds.), Istanbul, Turkey (June 20-21, 2002), 151–160.
20. H. A. Güvenir and B. Acar, “Feature Selection using a Genetic Algorithm for the Detection of Abnormal ECG Recordings” in: *Proceedings of the World Conference on Systemics, Cybernetics and Informatics* (ISAS/SCI 2001), Orlando, Florida (July, 2001), 437–442.
21. H. A. Güvenir, “Detection of Abnormal ECG Recordings using Feature Intervals” in: *Proceedings of the Tenth Turkish Symposium on Artificial Intelligence and Neural Networks*, (TAINN’2001), A. Acan, I. Aybay, and M. Salamah (Eds.), Gazimagusa, T.R.N.C. (June 2001), 265–274.
22. Nazli Ikizler and H. A. Güvenir, “Mining Interesting Rules in Bank Loans Data” in: *Proceedings of the Tenth Turkish Symposium on Artificial Intelligence and Neural Networks*, (TAINN’2001), A. Acan, I. Aybay, and M. Salamah (Eds.), Gazimagusa, T.R.N.C. (June 2001), 238–246.
23. S. Ayşe Özal and H. A. Güvenir, “An Algorithm for Mining Association Rules Using Perfect Hashing and Database Pruning” in: *Proceedings of the Tenth Turkish Symposium on Artificial Intelligence and Neural Networks*, (TAINN’2001), A. Acan, I. Aybay, and M. Salamah (Eds.), Gazimagusa, T.R.N.C. (June 2001), 257–264.
24. Ferhat Kutlu and H. A. Güvenir, “Categorization in a Hierarchically Structured Text Database” in: *Proceedings of the Tenth Turkish Symposium on Artificial Intelligence and Neural Networks*, (TAINN’2001), A. Acan, I. Aybay, and M. Salamah (Eds.), Gazimagusa, T.R.N.C. (June 2001), 218–227.
25. Türker Yılmaz and H. A. Güvenir, “Analysis and Presentation of Interesting Rules” in: *Proceedings of the Tenth Turkish Symposium on Artificial Intelligence and Neural Networks*, (TAINN’2001), A. Acan, I. Aybay, and M. Salamah (Eds.), Gazimagusa, T.R.N.C. (June 2001), 247–256.
26. Tolga Aydin and H. A. Güvenir, “An Eager Regression Method Based on Best Feature Projections” in: *Proceedings of 14th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems*, (IRA/AIE 2001), Springer-Verlag, LNAI 2070, Jozsef Vancza and Moonis Ali (Eds.), Budapest, Hungary, (June 4-7, 2001), 217-226.
27. Tolga Aydm and H. A. Güvenir, “An Eager Regression Method Based on Selecting Appropriate Features” in: *Proceedings of the Fourteenth International Florida Artificial Intelligence Research Society Conference (FLAIRS-2001)*, AAAI Press, Ingrid Russell and John Kolen (Eds.), Key West, Florida, USA, (May 21-23, 2001), 361-366.

28. Tolga Aydin and H. A. Güvenir, "Regression by Selecting Appropriate Features" in: *Proceedings of the Ninth Turkish Symposium on Artificial Intelligence and Neural Networks*, (TAINN'2000), Izmir, (June 21-23, 2000), 73-82.
29. İ. Uysal and H. A. Güvenir, "Regression by Feature Projections" in: *Principles of Data Mining and Knowledge Discovery (Proceedings of 3rd European Conference, PKDD'99)*, Jan M. Zytow and Jan Rauch (Eds.) Springer-Verlag, LNAI 1704, Prague, Czech Republic, (Sept. 15-18, 1999), 568-573.
30. H. A. Güvenir, S. Altingovde, I. Uysal and E. Erel, "Bankruptcy Prediction Using Feature Projection Based Classification" in: *Proceedings of World Multiconference on Systemics, Cybernetics and Informatics, (SCI/ISAS'99)*, Michel Torres, Belkis Sanchez and Eucaris Wills (Eds.), Orlando, Florida, (July 31 - August 4, 1999), Vol. VIII, 108-113.
31. N. Emeksiz and H. A. Güvenir, "Application of Machine Learning Techniques to Differential Diagnosis of Erythemato-Squamous Diseases" in: *Proceedings of World Multiconference on Systemics, Cybernetics and Informatics, (SCI/ISAS'99)*, Michel Torres, Belkis Sanchez and Eucaris Wills (Eds.), Orlando, Florida, (July 31 - August 4, 1999), Vol. IX, 59-66.
32. İ. Uysal and H. A. Güvenir, "An Application of Inductive Learning for Mining Basket Data" in: *Proceedings of the Eighth Turkish Symposium on Artificial Intelligence and Neural Networks*, (TAINN'99), A. C. Cem Say, Günhan Dündar (Eds.), Boğaziçi University, Istanbul, (June 23-25, 1999), 30-39.
33. T. Yavuz and H. A. Güvenir, "Application of k-Nearest Neighbor on Feature Projections Classifier to Text Categorization" in: *Advances in Computer and Information Sciences'98 (Proceedings of the 13th International Symposium on Computer and Information Sciences - ISCIS'98)* U. Güdükbay, T. Dayar, A. Gürsoy, E. Gelenbe (Eds.), Antalya, Turkey, (Oct. 26-28, 1998), 135-142.
34. H. A. Güvenir, "A Classification Learning Algorithm Robust to Irrelevant Features" in: *Artificial Intelligence: Methodology, Systems Applications (Proceedings of AIMSA'98)*, Fausto Giunchiglia (Ed.), Springer-Verlag, LNAI 1480, Sozopol, Bulgaria, (Sept. 21-23, 1998) 281-290.
35. H. A. Güvenir, B. Acar, G. Demiröz and A. Çekin, "A Supervised Machine Learning Algorithm for Arrhythmia Analysis" in: *Computers in Cardiology 1997*, Vol. 24, Lund, Sweden, (Sept. 7-10, 1997), 433-436.
36. H. A. Güvenir, and A. Akkuş, "Weighted K Nearest Neighbor Classification on Feature Projections" in: *Proceedings of the Twelfth International Symposium on Computer and Information Sciences (ISCIS XII)* S. Kuru, M.U. Çağlayan and H.L. Akın (Eds.), Antalya, Turkey, (Oct. 27-29, 1997), 44-51.
37. Abolfazl Fatholahzadeh, and H. A. Güvenir, "Verb Instantiation by Concept Coherence and Refinement" in: *Proceedings of the Second International Conference: Recent Advances In Natural Language Processing (RANLP-97)* Ruslan Milkov, Nicolas Nicolov and Nikolai Nikolov (Eds.), Tzigov Chark, Bulgaria, (Sept. 11-13, 1997), 252-257.
38. G. Demiröz, H. A. Güvenir, Nilsel İlter, "Differential Diagnosis of Erythemato-Squamous Diseases using Voting Feature Intervals" in: *New Trends in Artificial Intelligence and Neural Networks (TAINN'97)*, Turhan Ciftcibasi, Mustafa Karaman and Volkan Atalay (Eds.), Kızılıcahamam, Ankara, (May 22-23, 1997), 190-194.

39. G. Demiröz, and H. A. Güvenir, “Classification by Voting Feature Intervals” in: *Proceedings of the 9th European Conference on Machine Learning (ECML-97)*, Maarten van Someren and Gerhard Widmer (Eds.) Springer-Verlag, LNAI 1224, Prague, Czech Republic, (April 23-25 1997), 85-92.
40. H. A. Güvenir, and I. Cicekli, “Learning Translation Templates from Examples” in: *Proceedings of the Sixth Annual Workshop on Information Technologies & Systems (WITS'96)*, Arun Sen and George Ernst (Eds.), Cleveland OH, USA, (December 14-15, 1996), 112-121.
41. Gülşen Demiröz, and H. A. Güvenir, “Genetic Algorithms to Learn Feature Weights for the Nearest Neighbor Algorithm” in: *Proceedings of the 6th Belgian-Dutch Conference on Machine Learning (BENELEARN-96)*, H. J. van den Herik and T. Weijters (Eds.), Universiteit Maastricht, The Netherlands, (September 20, 1996), 117-126.
42. H. A. Güvenir, and I. Cicekli, “Learning Translation Templates from Bilingual Texts” in: *Artificial Intelligence: Methodology, Systems Applications (Proceedings of AIMSA '96, Sozopol, Bulgaria, September 18-20, 1996)*, A. M. Ramsay (Ed.), IOS Press, 3-11.
43. I. Cicekli, and H. A. Güvenir, “Learning Translation Rules From A Bilingual Corpus” in: *Proceedings of the Second International Conference on New Methods in Language Processing, (NeMLaP-2)*, Kemal Oflazer and Harold Somers (Eds.), Ankara, Turkey, (September 16-18, 1996), 90-97.
44. A. Akkuş, and H. A. Güvenir, “K Nearest Neighbor Classification on Feature Projections” in: *Proceedings of 13th International Conference on Machine Learning, (ICML '96)*, Lorenza Saitta (Ed.), Morgan Kaufmann, Bari, Italy, (July 3-6, 1996), 12-19.
45. G. Tür, and H. A. Güvenir, “Decision Tree Induction Using Genetic Programming” in: *Proceedings of the Fifth Turkish Symposium on Artificial Intelligence and Neural Networks, (TAINN'96)*, E. Alpaydin, U. Çilingiroğlu, F. Gürgen, C. Güzelis (Eds.), Istanbul Technical University, Istanbul, (June 27-28, 1996), 187-196.
46. H. A. Güvenir, and A. Tunç, “Corpus-Based Learning of Generalized Parse Tree Rules for Translation” in: *New Directions in Artificial Intelligence: Proceedings of the 11th Biennial Conference of the Canadian Society for Computational Studies of Intelligence*, Gord McCalla (Ed.) Springer-Verlag, LNAI 1081, Toronto, Ontario, Canada, (May 22-24, 1996), 121-131.
47. T. Sümer, and H. A. Güvenir, “Use of Pre-splitting Techniques as an Alternative Approach to Cost Optimisation in Tunnel Excavation” in: *Proceedings of EXPL0'95 Conference*, Brisbane, Australia, (4-7 September 1995), 383-386.
48. H. A. Güvenir, “A Genetic Algorithm for Multicriteria Inventory Classification” in: *Artificial Neural Nets and Genetic Algorithms, Proceedings of the International Conference (ICANNGA '95)*, D. W. Pearson, N. C. Steele, R. F. Albrecht (Eds.), Ecole des Mines d’Alès, France, (19-21 April 1995), 6-9.
49. T. Aytekin, E. E. Korkmaz, and H. A. Güvenir, “An Application of Genetic Programming to the 4-Op Problem using Map-trees” in: *Proceedings of the Workshop on Evolutionary Computation in association with 7th Australian Joint Conference on Artificial Intelligence*, Xin Yao (Ed.), University of New England, Armidale, Australia, (21-22 November 1994), 28-40. Also in: *Progress in Evolutionary Computation*, LNAI Vol. 956, Xin Yao (Ed.), Springer-Verlag, Heidelberg, (1995), 28-40.

50. H. G. Ünsal and H. A. Güvenir, "Learning Soil Classification Using CFP" in: *Proceedings of the Third Turkish Symposium on Artificial Intelligence and Neural Networks*, C. Bozşahin, U. Halıcı, K. Oflazer, N. Yalabik (Eds.), Middle East Technical University, Ankara, (June 1994), 257–265.
51. H. A. Güvenir and K. Oflazer, "Using a Corpus for Teaching Turkish Morphology" in: *Proceedings of the seventh Twente Workshop on Language Technology*, L. Appelo and F. M. G. de Jong (Eds.), University of Twente, The Netherlands, (June 1994), 17–22.
52. F. Polat and H. A. Güvenir, "A Conflict Resolution Based Decentralized Multi-Agent Problem Solving Model" in: *Artificial Social Systems*, LNAI Vol. 380, (4th European Workshop on Modelling Autonomous Agents in a Multi-Agent World, MAAMAW'92, S. Martino al Cimino, Italy, July 1992, Selected Papers), C. Castelfranchi, E. Werner (Eds.), Springer-Verlag, Berlin, (1994), 279–294.
53. İ. Şirin and H. A. Güvenir, "Empirical Evaluation of the CFP Algorithm" in: *Proceedings of the Sixth Australian Joint Conference on Artificial Intelligence*, C. Rowles, H. Liu, N. Foo (Eds.), Melbourne, Australia: World Scientific, (November, 1993), 311–315.
54. H. A. Güvenir and İ. Şirin, "Complexity of the CFP, A Method for Classification Based on Feature Partitioning" in: *Advances in Artificial Intelligence*, LNAI Vol. 728, (Proceedings of the Third Congress of the Italian Association for Artificial Intelligence, AI*IA'93, Torino, Italy, October, 1993) P. Torasso (Ed.), Springer-Verlag, Berlin, (1993), 202–207.
55. H. A. Güvenir and İ. Şirin, "A Genetic Algorithm for Classification by Feature Partitioning" in: *Proceedings of the Fifth International Conference on Genetic Algorithms*, S. Forrest, (Ed.), Urbana-Champaign, IL: Morgan Kaufmann, (July, 1993), 543–548.
56. İ. Şirin and H. A. Güvenir, "A Classification Algorithm Based on Feature Partitioning" in: *İkinci Türk Yapay Zeka ve Yapay Sinir Ağları Sempozyumu Bildiriler Kitabı*, Istanbul, (June 1993), 283–288.
57. İ. Şirin and H. A. Güvenir, "Prediction of Stock Market Index Changes" in: *Adaptive Intelligent Systems, Proceedings of the BANKAI Workshop, Brussels, Belgium, 12-14 October 1992*, S.W.I.F.T. (Ed.), Elsevier Science Publishers B. V., Amsterdam, (1993), 149–160.
58. T. Sümer and H. A. Guvenir, "Cost Optimization for Controlled Blasting, Transportation and Crushing" in: *Proceedings of the Nineteenth Annual Conference on Explosives and Blasting Technique* San Diego CA, (Jan. 31 - Feb. 4, 1993), 13–23.
59. H. A. Güvenir and E. T. Yazıcıoğlu, "Türkçe Cümle Üretilimi için Bir Gramer" in: *TBD Bilişim '93 Bildiriler Kitabı* İstanbul, (Sept. 1993), 197–201.
60. F. Polat and H. A. Güvenir, "A Conflict Resolution based cooperative distributed problem solving model" in: *Proceedings of AAAI-92 Workshop on Cooperation among Heterogeneous Intelligent Agents*, San Jose, CA, (July 1992), 106–115.
61. F. Polat and H. A. Güvenir, "Distributed Artificial Intelligence in Engineering Design" in: *Proceedings of the Engineering Design and Analysis Conference (ESDA)*, PD-Vol. 47-7, ASME, (1992), 139–142.
62. F. Polat and H. A. Güvenir, "Dağıtık Uzman Tasarım Sistemi" in: *9. Ulusal Bilişim Kurultayı Bildiriler Kitabı*, İstanbul, (September 1992), 261–266.

63. F. Polat and H. Altay Güvenir, “A Distributed Expert System Architecture” in: *1. Türk Yapay Zeka ve Yapay Sinir Ağları Sempozyumu Bildiriler Kitabı*, Ankara, (June 1992), 219–226.
64. H. A. Guvenir, “Drill and Practice for Turkish Grammar” in: *Proceedings of the NATO Advanced Research Workshop “The Bridge to International Communication: Intelligent Tutoring Systems for Foreign Language Learning”*, M. L. Swartz and M. Yazdani (Eds.), NATO ASI Series F: Computer and Systems Sciences, Vol. 80, Springer-Verlag, Berlin, (1992), 275–291.
65. F. Polat and H. Altay Guvenir, “UVT: A Unification Based tool for Knowledge Base Verification,” in: *Proceedings of the European Workshop on the Verification and Validation of Knowledge Based Systems*, Cambridge England, (July 1991), 147–163.
66. E. T. Yazıcıoğlu and H. A. Güvenir, “Yapay Us Teknikleri ile Türkçe Grameri için bir Alıştırma ortamı” in: *Bilkon’91 Bildiriler kitabı*, Ankara, (July 1991), 350–354.
67. F. Polat and H. A. Guvenir, “Coordination Issues in Distributed Problem Solving” in: *Proceedings of The Sixth International Symposium on Computer and Information Sciences*, M. Baray and B. Ozguc (Eds.), Elsevier, Antalya, (October 1991), 585–594.
68. E. Cankat and H. A. Guvenir, “Implementation of an Intelligent Tutoring System Using Object-Oriented Programming” in: *Proceedings of The Sixth International Symposium on Computer and Information Sciences*, M. Baray and B. Ozguc (Eds.), Elsevier, Antalya, (October 1991), 1083–1092.
69. Ü. Şencan and H. A. Güvenir, “Bilgisayarla Öğretimde Uzman Sistemler” in: *Bilkon’91 Bildiriler kitabı*, Ankara, (July 1991), 359–362.
70. B. Şimşek and H. A. Güvenir, “Programlama Dilleri Eğitimi için bir Akıllı BDE Yazılımı” in: *8. Ulusal Bilişim Kurultayı Bildiriler Kitabı*, Ankara, (September 1990), 47–57.
71. D. Davenport, H. A. Guvenir and F. Buyukkokten, “TUTOR: An Experiment in Computer-Aided-Learning” in: *Proceedings of The Fourth International Symposium on Computer and Information Sciences*, A. Dogac and E. Gelenbe (Eds.), Izmir, (October 1989), 74–79.
72. F. Polat and H. A. Guvenir, “Knowledge-Base Verification in an Expert System Shell” in: *Proceedings of The Fourth International Symposium on Computer and Information Sciences*, A. Dogac and E. Gelenbe (Eds.), Izmir, (October 1989), 889–898.
73. I. H. Toroslu and H. A. Guvenir, “Object-Oriented Expert System Shell” in: *Proceedings of The Fourth International Symposium on Computer and Information Sciences*, A. Dogac and E. Gelenbe (Eds.), Izmir, (October 1989), 193–200.
74. D. Davenport and H. A. Guvenir, “Knowledge Base Concepts for Intelligent Tutoring Systems” in: *Proceedings of The Third International Symposium on Computer and Information Sciences*, E. Gelenbe, E. Orhun and E. Basar (Eds.), Izmir, (October 1988), 93–103.
75. H. A. Güvenir, “Endüstride Uzman Dizge Uygulamaları” in: *7. Ulusal Bilişim Kurultayı Bildiriler Kitabı*, Eskişehir, (September 1988), 148–153.
76. H. A. Guvenir and G. W. Ernst, “A Method for Learning Problem Solving Strategies” in: *Proceedings of the AAAI Spring Symposium Series*, Stanford University, (March 1988), 31–35.

77. P. Schaefer and H. A. Guvenir, "Using Expert Systems to Trouble-shoot Micro-processor-Based Control Systems: An Expectation-Based Approach" in: *Pre-prints of IFAC Symposium on Microcomputer Application in Process Control*, E. Adalı and F. Tunali (Eds.), Istanbul, (July 22-25, 1986), T9.1-4.

EDITED VOLUMES

1. İ. Çiçekli and H. A. Güvenir, *Proceedings of the Seventh Turkish Symposium on Artificial Intelligence and Neural Networks*, 24-26 June, 1998, Ankara.
2. H. A. Güvenir, K. Oflazer, V. Akman and Ş. Kocabas, *Proceedings of the Fourth Turkish Symposium on Artificial Intelligence and Neural Networks*, 26-28 June, 1995, Gebze.
3. K. Oflazer, V. Akman, H. A. Güvenir and U. Halıcı, *Proceedings of the First Turkish Symposium on Artificial Intelligence and Neural Networks*, 25-26 June, 1992, Ankara

OTHER

1. B. M. Öcal, H. A. Güvenir, "Konum Önerisi için Zaman Tabanlı Uzman Destekli İşbirliğine Dayalı Filtreleme," *TBV BBMD* V: 13, 2020, pp. 20-32. (in Turkish).
2. T. Aydin, H. A. Güvenir, "Öznitelik İzdüşümü Kullanarak Artımlı Biçimde Sıflandırma Öğrenilmesi," *TBV BBMD* V: 1, 2005, pp. 11-18. (in Turkish).
3. H. A. Güvenir, "Makina Öğrenmesi Tıbbın Hizmetinde," *Popüler Bilim*, No: 46, September, 1997, pp. 25-27. (in Turkish).
4. H. A. Güvenir, "Bilgisayarların Strateji Öğrenimi," *Popüler Bilim*, No: 6, May, 1994, pp. 68-74. (in Turkish).
5. H. A. Güvenir, "Sezgisel Yöntemler (Heuristic Methods)," *Bilişim*, No: 49, April 1994, p.74. (in Turkish).
6. V. Akman and H. A. Güvenir, "Açık Bilgi Sistemleri - II", *Bilişim*, No: 41, August 1993, pp. 80-82. (in Turkish).
7. V. Akman and H. A. Güvenir, "Açık Bilgi Sistemleri - I", *Bilişim*, No: 40, July 1993, pp: 80-83. (in Turkish).
8. I. Sirin and H. A. Guvenir, "An Algorithm for Classification by Feature Partitioning", Technical Report No: CIS-9301, Ankara, (1993).
9. H. A. Guvenir, "Drill and Practice for Turkish Grammar", Bilkent University, Technical Report No: CIS-9011, Ankara, (1990).
10. H. A. Guvenir, "Problem Representation for Refinement", Bilkent University, Technical Report No: CIS-9001, Ankara, (1990).
11. H. A. Guvenir, "Application-Based Comparison of High-Level Programming Languages", Aselsan A.S., Technical Report, Ankara, (December 1989).
12. H. A. Guvenir, "Learning Problem Solving Strategies Using Refinement and Macro Generation," *First Bilkent-Carnegie Mellon Joint Conference*, Ankara, (May 1989), (abstract).
13. H. A. Güvenir, D. Davenport and V. İşler, "Bilgisayar Destekli Eğitimde Yapay Zeka," in: *TFV-88 Sempozyumu Bildirileri*, Ankara, (June 1988), 98, (abstract).

14. H. A. Guvenir, “Learning Problem Solving Strategies Using Refinement and Macro Generation”, Case Western Reserve University, Ph.D. thesis, Technical Report No: CES-87-22, Ohio, (August 1987).
15. H. A. Guvenir, “Using Refinement and Macros to Learn Strategies”, Case Western Reserve University, Technical Report No: CES-87-21, Ohio, (August 1987).
16. H. A. Guvenir, “RWM: A Method for Learning Strategies Using Refinement and Macros”, Case Western Reserve University, Technical Report No: CES-86-18, Ohio, (1986).