

# C U R R I C U L U M   V I T A E

## H. ALTAY GÜVENİR

Bilkent University  
Department of Computer Engineering, Professor and Chairman  
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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, Problem Solving Strategies

### 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

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

**2001 - present** *Full Professor*, 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

**1999** Received the First Prize in TÜBİTAK - Hüsamettin Tuğaç 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

- 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 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

- *Scientific Journal*, The Chamber of Electrical Engineering, (in Turkish), 2005 - present.
- *Journal of Computer Science and Engineering*, Turkish Informatics Foundation, (in Turkish), 2010 - present.

## 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 International Program Committee, Workshop on Pattern Analysis and Recognition (PAR2010), 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) Kızılcahamam, 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, Otomasyon 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 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 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 Aydın, *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*

- 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 Satıroğlu, *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 Aydın, *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. 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.
2. 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.
3. T. Aydın, 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.
4. 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.
5. İ. Uysal and H. A. Güvenir, “Instance-Based Regression by Partitioning Feature Projections”, *Applied Intelligence*, Vol. 21, No. 1, (2004), 57-79.
6. B. Arı and H. A. Güvenir, “Clustered Linear Regression”, *Knowledge-Based Systems*, Vol. 15, No. 3, (2002), 167–173.
7. I. Cicekli and H. A. Güvenir, “Learning Translation Templates from Bilingual Translation Examples”, *Applied Intelligence*, Vol. 15, No. 1, (2001), 57–76.
8. H. A. Güvenir, and İ. Uysal, “Regression on Feature Projections”, *Knowledge-Based Systems*, Vol. 13, No. 4, (2000), 207–214.
9. 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.
10. 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.
11. H. A. Güvenir and I. Cicekli, “Learning Translation Templates from Examples”, *Information Systems*, Vol. 23, No. 6, (1998), 353–363.
12. 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.
13. 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.
14. H. A. Guvenir and E. Erel, “Multicriteria Inventory Classification using a Genetic Algorithm”, *European Journal of Operational Research*, Vol. 105, (1998), 29–37.

15. H. A. Guvenir and I. Sirin, "Classification by Feature Partitioning" *Machine Learning*, Vol. 23, No. 1, (1996), 47–67.
16. H. A. Güvenir, "An Object-Oriented Tutoring System for Teaching Sets", *ACM SIGCSE Bulletin*, Vol. 27, No. 3. (1995), 39–46.
17. 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.
18. 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.
19. 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.
20. H. A. Guvenir and V. Akman, "Problem Representation for Refinement", *Minds and Machines*, Vol. 2, No. 3, (August 1992), 267–282.
21. F. Polat and H. A. Guvenir, "A Unification-based Approach for Knowledge Base Verification", *Expert Systems*, Vol. 8, No. 4, (November 1991), 251–259.
22. 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. 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, LNAI 3609, Springer-Verlag, (2007) 485-496.
2. 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 Neural Networks (TAINN 2005)*, İzmir, Turkey (June 16-17, 2005), LNAI 3949, Springer-Verlag, 168-176.
3. 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.
4. 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 Neural Networks (TAINN'04)*, Izmir, Turkey (June 10-11, 2004), 129-138.

5. 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.
6. 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), LNAI 2773, Springer-Verlag, Vasile Palade, Robert J. Howlett, Lakhmi Jain (Eds.), Part I, 339-345.
7. 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), LNAI 2773, Springer-Verlag, Vasile Palade, Robert J. Howlett, Lakhmi Jain (Eds.), Part I, 756-762.
8. 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.
9. T. Aydın 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.
10. 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.
11. 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.
12. 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.
13. Nazli İkizler 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.
14. S. Ayşe Özel 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.
15. 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.

16. 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.
17. Tolga Aydın 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.
18. Tolga Aydın 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.
19. Tolga Aydın and H. A. Güvenir, "Regression by Selecting Appropriate Features" in: *Proceedings of the Ninth Turkish Symposium on Artificial Intelligence and Neural Networks*, (TAINN'2000), İzmir, (June 21-23, 2000), 73-82.
20. 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.
21. 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.
22. 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.
23. 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 Dünder (Eds.), Boğaziçi University, Istanbul, (June 23-25, 1999), 30-39.
24. 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.
25. H. A. Güvenir, "A Classification Learning Algorithm Robust to Irrelevant Features" in: *Artificial Intelligence: Methodology, Systems Applications (Proceedings of AIMS'98)*, Fausto Giunchiglia (Ed.), Springer-Verlag, LNAI 1480, Sozopol, Bulgaria, (Sept. 21-23, 1998) 281-290.
26. 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.

27. 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.
28. 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 Nilokai Nikolov (Eds.), Tzigov Chark, Bulgaria, (Sept. 11-13, 1997), 252-257.
29. G. Demiröz, H. A. Güvenir, Nilsel İltter, “Differential Diagnosis of Erythematous Diseases using Voting Feature Intervals” in: *New Trends in Artificial Intelligence and Neural Networks (TAINN’97)*, Turhan Ciftcibasi, Mustafa Karaman and Volkan Atalay (Eds.), Kızılcahamam, Ankara, (May 22-23, 1997), 190-194.
30. 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.
31. 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.
32. 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.
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