Curriculum Vitae

H. ALTAY GÜVENİR

Bilkent University
Department of Computer Engineering, Professor
06800 Ankara, Turkey
E-mail: `guvenir@cs.bilkent.edu.tr`
URL: `http://www.cs.bilkent.edu.tr/~guvenir`

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

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

2001 - 2019 *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

- Project Manager, "Industrial Doctorate Project on Artificial Intelligence in colloboration between İ. D. Bilkent University and Huawei," Sponsored by cientific and Technical Research Council of Turkey (TÜBİTAK), Contract No: 118C154. TL 1,255,728, 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 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*, TUBİTAK, vol. 12, no. 1, 2004.

PROFESSIONAL ACTIVITIES

EXECUTIVE COMMITTEES

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

ACADEMIC MEETINGS

- 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 (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, 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 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 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

- 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 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. 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.compbiomed.2017.08.011 Vol. 89, (2017), pp. 466-486.

2. Emre Oto, Sercan Okutucu, Deniz Katircioglu-Ozturk, Halil Altay Güvenir, Ergun Karaagaoglu, Martin Borggrefe, Gnter 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. 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: https://doi.org/10.1109/ESEM.2019.8870190

2. 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.

3. 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.

4. 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.

5. 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.

6. 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.

7. 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), İzmir, Turkey (June 16-17, 2005), LNAI 3949, Springer-Verlag, 168-176.

8. 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.

9. 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.

10. 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.

11. 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.

12. 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.

13. 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.

14. 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.

15. 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.

16. 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.

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