

Asst. Prof. Mert BAL

Personal Information

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Education Information

Doctorate, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Matematik Mühendisliği, Turkey 2001 - 2008

Post Graduate, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Matematik Mühendisliği, Turkey 1999 - 2001

Under Graduate, Yıldız Teknik Üniversitesi, Kimya Metalurji Fakültesi, Matematik Mühendisliği, Turkey 1994 - 1999

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

IT, Microsoft Certified Professional/MCP, Mayasoft, 2002

IT, Microsoft Certified Systems Engineer/MCSE, Mayasoft, 2002

IT, Microsoft Certified Database Administrator/MCDBA, Mayasoft, 2002

Dissertations

Doctorate, Tanecikli Hesaplama Yöntemi ile Kavram Çözümleme, Yıldız Teknik Üniversitesi, Matematik Mühendisliği, Matematik Mühendisliği, 2008

Post Graduate, Uzaktan Eğitim Yöntem ve Uygulamaları, Yıldız Teknik Üniversitesi, Matematik Mühendisliği, Matematik Mühendisliği, 2001

Research Areas

Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Uncertainty Management, Knowledge Engineering, Fuzzy Sets and Systems, Pattern Recognition and Image Processing, Neural Networks, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Yıldız Teknik Üniversitesi, Kimya Metalurji Fakültesi, Matematik Mühendisliği, 2018 - Continues

Assistant Professor, Milli Savunma Üniversitesi, Deniz Harp Okulu, Bilgisayar Mühendisliği, 2018 - Continues

Research Assistant PhD, Yıldız Teknik Üniversitesi, Kimya Metalurji Fakültesi, Matematik Mühendisliği, 2008 - 2018

Research Assistant, Yıldız Teknik Üniversitesi, Kimya Metalurji Fakültesi, Matematik Mühendisliği, 1999 - 2008

Professional Experience

Courses

Mathematical Foundations of Artificial Intelligence, Post Graduate, 2019 - 2020
Fuzzy Logic, Under Graduate, 2019 - 2020
Data Mining, Post Graduate, 2019 - 2020
Matematik Mühendisliğinde Tasarım Uygulamaları, Under Graduate, 2017 - 2018, 2018 - 2019
Bitirme Çalışması, Under Graduate, 2017 - 2018, 2018 - 2019
Yazılım Mühendisliği, Under Graduate, 2018 - 2019
Yapay Zeka, Under Graduate, 2018 - 2019
Sayısal Yöntemler, Under Graduate, 2017 - 2018
Kompleks Analiz, Under Graduate, 2017 - 2018
Çizge Kuramı ve Algoritmalar, Under Graduate, 2017 - 2018
Yapay Zeka, Under Graduate, 2017 - 2018
Veri Tabanı Temelleri, Under Graduate, 2010 - 2011
Yapay Zeka, Under Graduate, 2010 - 2011
Ayrık Matematik, Under Graduate, 2008 - 2009
Bilgisayar Programlama, Under Graduate, 2008 - 2009
Kriptografi, Under Graduate, 2008 - 2009
Veri Tabanı, Under Graduate, 2008 - 2009

Jury Memberships

Post Graduate, Yüksek Lisans Tez Savunma Jürisi, Bahçeşehir Üniversitesi, January, 2019

Designed Lessons

Bal M., Graph Theory and Algorithms, Under Graduate, 2018 - 2019

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Sarcoidosis: Changed Phenotype and Worsening of the Course by Overtime**
Sipahi S., Başaranoğlu M., BAL M., Karayel T.
EUROPEAN RESPIRATORY JOURNAL, vol.46, 2015 (Journal Indexed in SCI)
- **Decision support system for collision avoidance of vessels**
Simsir U., AMASYALI M. F. , BAL M., ÇELEBİ U. B. , Ertugrul S.
APPLIED SOFT COMPUTING, vol.25, pp.369-378, 2014 (Journal Indexed in SCI)
- **Performance Evaluation of the Machine Learning Algorithms Used in Inference Mechanism of a Medical Decision Support System**
BAL M., AMASYALI M. F. , Sever H., Kose G., Demirhan A.
SCIENTIFIC WORLD JOURNAL, 2014 (Journal Indexed in SCI)
- **Predictions of oil/chemical tanker main design parameters using computational intelligence techniques**
EKİNCİ S., ÇELEBİ U. B. , BAL M., AMASYALI M. F. , Boyacı U. K.
APPLIED SOFT COMPUTING, vol.11, pp.2356-2366, 2011 (Journal Indexed in SCI)
- **Analysis of 87 patients with Lofgren's syndrome and the pattern of seasonality of subacute sarcoidosis**
Demirkok S. S. , Basaranoglu M., Dervis E., Bal M., Karayel T.
RESPIROLOGY, vol.11, pp.456-461, 2006 (Journal Indexed in SCI)
- **Overview of 118 Patients with Sarcoidosis: Experience of 3 Different Centers from Turkey.**
Sipahi S., Başaranoğlu M., Kılınç G., Yurteri G., Şengül E., Özışık N., BAL M.
SARCOIDOSIS VASCULITIS AND DIFFUSE LUNG DISEASES, vol.23, pp.152, 2006 (Journal Indexed in SCI Expanded)

Articles Published in Other Journals

- **Analysis of Changes in Market Shares of Commercial Banks Operating in Turkey Using Computational Intelligence Algorithms**
AMASYALI M. F. , DEMİRHAN A., BAL M.
Advances in Artificial Intelligence, vol.1, pp.1-14, 2014 (Refereed Journals of Other Institutions)
- **Rough Set Theory as Symbolic Data Mining Method: An Application on Complete Decision Table.**
BAL M.
Information Sciences Letters, vol.2, pp.35-47, 2013 (Refereed Journals of Other Institutions)
- **Interestingness Measures for Association Rule Mining**
BAL M., DEMİRHAN A.
International Multidisciplinary Thought, vol.1, no.4, pp.258-270, 2011 (Refereed Journals of Other Institutions)
- **A New Method for Employee Selection Process in Human Resource Management: A Soft Computing Approach**
BAL Y., BAL M.
International Journal of Arts and Sciences, vol.4, pp.9-19, 2011 (Refereed Journals of Other Institutions)
- **Creating Competitive Advantage by Using Data Mining Technique as an Innovative Method for Decision Making Process in Business.**
BAL M., BAL Y., DEMİRHAN A.
International Journal of Online Marketing, vol.1, pp.38-45, 2011 (Refereed Journals of Other Institutions)
- **Modeling the Symptom-Disease Relationship by Using Rough Set Theory and Formal Concept Analysis**
BAL M., Sever H., Kalıpsız O.
International Journal of Medical and Health Sciences, vol.1, no.11, pp.586-590, 2007 (Refereed Journals of Other Institutions)
- **Sarkoidozda Gecikmiş Tanı: İstanbul' da Üç Farklı Merkezin Sonuçları**
Sipahi S., Kılıncı G., Çimen N., Yurteri G., Şengül E., Günay C., BAL M.
EURASIAN JOURNAL OF PULMONOLOGY, vol.9, pp.18, 2007 (Other Refereed National Journals)
- **Comparison of Different Neural Networks Performances on Motorboat Datasets**
Amasyalı M., BAL M., ÇELEBİ U. B. , Boyacı U. K.
LECTURE NOTES IN COMPUTER SCIENCE, pp.212-220, 2006 (Refereed Journals of Other Institutions)

Book & Book Chapters

- **in: Cultural and Technological Influences on Global Business**
Bal Y., BAL M.
Business Intelligence Solutions for Decision-Making in Global Organizations, "Christiansen B.", Editor, Igi Global Publications, Hershey, pp.29-45, 2013
- **in: The Value of RFID: Benefits vs Costs**
Üstündağ A., Üstündağ A., BAL M.
Economic Potential of RFID Use in Apparel Retail Industry, "Üstündağ A.", Editor, Springer, London/Berlin , London, pp.129-139, 2012
- **in: Lecture Notes in Computer Science**
AMASYALI M. F. , BAL M., ÇELEBİ U. B. , EKİNCİ S., Boyacı U. K.
Comparison of Different Neural Networks Performances On Motorboat Datasets, Levi, A., Editor, Springer-Verlag , New York, 2006

Refereed Congress / Symposium Publications in Proceedings

- **İnsan Kaynakları Yönetiminde Etkin bir İşe Alım Süreci için Yapay Zeka Yöntemlerinin Kullanımı**
BAL M., BAL Y., BOZKURT S.
3. Uluslararası Avrasya Sosyal Bilimler Kongresi, Muğla, Turkey, 18 Nisan 2019
- **Knowledge Discovery in Databases Process with Bacchus' Probabilistic Logic Method**

BAL M., DEMİRHAN A.

IJAS Conferences 2016, Prag, Czech Republic, 01 Kasım 2016

• **An Application Using Decision Rules Algorithm in Employee Selection Process for HRM**

BAL M., BAL Y.

IJAS Conferences 2016, Prag, Czech Republic, 01 Kasım 2016

• **The Comparison of Rough Set Theory (RST) and Fuzzy Set Theory (FST) as Granular Computing Method.**

BAL M., Köse G.

International Congress on Fundamental and Applied Sciences 2016, İstanbul, Turkey, 22 Ağustos 2016, pp.92

• **A Study on Determining the Spending Trend of Consumers By Using Clustering Analysis**

BAL M., DEMİRHAN A.

International Management Conference: Managing Sustainable Growth, Portoroz, Slovenia, 28 Mayıs 2015, pp.6

• **Using Flow Graph in Data Mining**

BAL M., Demirhan A.

12th Academic Conference, Prag, Czech Republic, 15 Eylül 2014

• **Using Rough Set Theory For Supply Chain Management Process in Business**

BAL M., Demirhan A.

11. Balkan Conference on Operational Research, Belgrad, Serbia And Montenegro, 07 Eylül 2013, pp.16

• **Combining Different Inference Methods for Medical Decision Support Systems**

Köse G., Sever H., BAL M., Üstündağ A.

The 10th International FLINS Conference on Uncertainty Modeling in Knowledge Engineering and Decision Making, FLINS 2012, İstanbul, Turkey, 15 Ağustos 2012, pp.88-93

• **Veri Madenciliğinde Kaba Küme Teorisi Kullanımı**

BAL M., Üstündağ A.

30. Ulusal Yöneylem Araştırması/Endüstri Mühendisliği Kongresi,, İstanbul, Turkey, 20 Haziran 2010

• **Belirti-Hastalık İlişkisinin Biçimsel Kavram Analizi ile Modellenmesi**

BAL M., Üstündağ A.

Yöneylem Araştırması ve Endüstri Mühendisliği 29. Ulusal Kongresi, Ankara, Turkey, 12 Haziran 2009

• **Dayanaksız Tüketim Ürünlerinde Hatalı Stok Verilerinin Perakendeci Performansı Üzerindeki Etkileri**

Üstündağ A., BAL M.

29. Ulusal Yöneylem Araştırması/Endüstri Mühendisliği Kongresi, Ankara, Turkey, 10 Haziran 2009

• **Veri Madenciliğinde Birliktelik Kuralları**

BAL M., Kalıpsız O.

1. Bilimde Modern Yöntemler Sempozyumu, Kocaeli, Turkey, 08 Kasım 2005

• **Comparison of Lossy Image Compression Methods**

Emiroğlu İ., BAL M., Elibol A.

International Conference on Signal Processing ICSP 2003, Çanakkale, Turkey, 03 Eylül 2003, pp.177-181

• **Uzaktan Eğitim Yöntem ve Uygulamaları**

Emiroğlu İ., BAL M.

Bilgi Teknolojileri Kongresi, Denizli, Turkey, 21 Mayıs 2003

• **An Internet Modal Automation System**

Emiroğlu İ., BAL M., Elibol A., Olgun E.

ICHE International Conference on Innovation in Higher Education Centre for Technology in Learning and Teaching, Kiev, Ukraine, 12 Mayıs 2003

• **A New Paradigm in Decision Making Process in Business: Using Soft Computing Methods.**

BAL M.

2 nd. World Conference on Information Technology, Antalya, Türkiye.

• **The Impacts of Data Inaccuracy on Retailer's Perishable Inventory.**

BAL M.

24th European Modeling and Simulation Symposium (Simulation in Industry), EMSS 2012, Vienna, Austria.

• **An Overview of the Uncertain Reasoning Approaches for Data Mining.**

BAL M.

2 nd. World Conference on Information Technology, Antalya, Türkiye.

- **Rule Induction from Decision Table Using Rough Set Theory**

BAL M.

The International Conference on Computer Science and Applied Computing , Vienna, Austria.

Supported Projects

BAL M., TUBITAK Project, SÜRÜCÜLER İÇİN AKTİF KORUMA SİSTEMİ: GÖRÜNTÜ TABANLI UYKULU/DİKKATSİZ SÜRÜCÜ TESPİTİ VE UZAKTAN SÜRÜCÜ ALKOL ORANI ÖLÇÜMÜ İÇİN ENTEGRE BİR SİSTEM, 2017 - Continues

Memberships / Tasks in Scientific Organizations

Member, 2017 - Continues

Member, 2011 - Continues

Member, 2010 - Continues

Member, 2009 - Continues

Scientific Refereeing

ACM Transactions on Autonomous and Adaptive Systems, SCI Journal, January 2019

ACM Transactions on Data Science, Other Indexed Journal, June 2018

Group Decision and Negotiation, Journal Indexed in SSCI, January 2018

Pattern Recognition Letters, SCI Journal, December 2017

Knowledge and Information Systems, SCI Journal, February 2014

Human and Ecological Risk Assessment, SCI Journal, December 2013

Turkish Journal of Electrical Engineering and Computer Sciences, SCI Journal, April 2013

The Arabian Journal for Science and Engineering, SCI Journal, March 2013

International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, SCI Journal, March 2013

Applied Intelligence Research, Other Indexed Journal, May 2012

Information Systems Frontiers, SCI Journal, October 2011

Information Fusion, SCI Journal, September 2011

Knowledge-Based Systems, SCI Journal, October 2010

Information Sciences, SCI Journal, May 2010

Expert Systems, SCI Journal, May 2009

European Journal of Operational Research, SCI Journal, March 2009

Applied Intelligence, SCI Journal, May 2008

Applied Soft Computing, SCI Journal, April 2008

Web Intelligence and Multi-Agent Systems: An International Journal , Other Indexed Journal, March 2008

Invited Congress and Symposium Activities

IJAS Conference 2016, Attendee, Praha, Czech Republic, 2016

International Management Conference: Managing Sustainable Growth, Attendee, Izola, Slovenia, 2015

6. Deniz Sistemleri Semineri, Attendee, Ankara, Turkey, 2013

11th Balkan Conference on Operational Research, Attendee, Beograd, Serbia And Montenegro, 2013

International Symposium Chaos, Complexity and Leadership, Attendee, Ankara, Turkey, 2012

24 th European Modeling and Simulation Symposium, Attendee, Wien, Austria, 2012

International Conference on Computer Science and Applied Computing, Attendee, Wien, Austria, 2011

IJAS Conference 2010, Attendee, Roma, Italy, 2010

International Conference on Data Engineering, Attendee, İstanbul, Turkey, 2007

International Symposium on Computer and Information Sciences, Attendee, İstanbul, Turkey, 2006

Citations

Total Citations (WOS):73

h-index (WOS):4