

Professor İnci BATMAZ

Middle East Technical University
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(Last updated: October, 2025)

EDUCATION

Doctor of Philosophy (PhD)

Ege University, Department of Computer Engineering, İzmir, Turkey, 1993.

Doctoral Dissertation: Research on Intelligent Software Development for Design and Analysis of Factorial Experiments (Supervisors: Prof. Dr. William F. Eddy and Prof. Dr. Aydın Öztürk)

Fulbright Doctoral Research Scholar

Carnegie-Mellon University (CMU), Department of Statistics, Pittsburgh, PA, USA, 1988-1991.

Master of Science (MSc)

Ege University, Department of Computer Engineering, İzmir, Turkey, 1986.

Master Thesis: A Comparative Study of the Parameter Estimation Methods for the Logistic Distribution (Supervisor: Prof. Dr. Aydın Öztürk).

Bachelor of Science (BS)

Middle East Technical University (METU), Department of Statistics (and Operational Research), Ankara, Turkey, 1984.

Minor: Computer Science

EXPERIENCE

Administrative

- **Coordinator**, Institutional Development and Planning Office, Rectorate, METU, 2019-2020.
- **Elected Member of the Board**, Graduate School of Natural and Applied Sciences, METU, January 1, 2014-2016.
- **Member of the Board**, Institute of Applied Mathematics (IAM), METU, 2013-2016.
- **Member of the Board**, Arts and Science Faculty, METU, 2012-2015.
- **Chair**, Department of Statistics, METU, Ankara, Turkey, December 2012-2015.
- **Assistant to Chair**, Department of Statistics, METU, Ankara, Turkey, August 2012-December 2012.

- **Graduate Program Coordinator**, Department of Statistics, METU, Ankara, Turkey, 2008-2012.
- **Assistant to Chair**, Department of Statistics, METU, Ankara, Turkey, 2004-2007.
- **Chair**, Statistical Information Systems Section, Department of Statistics, Ege University, İzmir, Turkey, 1995-2002.
- **Assistant to Chair**, Department of Statistics, Ege University, İzmir, Turkey, 1994-1998.

Faculty Member

- **Professor**, Department of Statistics, METU, Ankara, Turkey, December 18, 2012-ongoing.
- **Associate Professor (promotion)**, Department of Statistics, METU, Ankara, Turkey, December 2010–2012.
- **Associate Professor (title)**, Higher Education Council (YÖK), Turkey, November 2004.
- **Affiliated Faculty**, Financial Mathematics Program, Institute of Applied Mathematics (IAM), METU, Ankara, Turkey, 2003-ongoing.
- **Assistant Professor**, Department of Statistics, METU, Ankara, Turkey, 2002–2010.
- **Assistant Professor**, Department of Statistics, Ege University, İzmir, Turkey, 1994-2002.

Visiting

- **Professor, Academic Researcher**, Imperial College, Department of Mathematics, Statistics Section, London, UK, 2016-2018.
- **Lecturer**, Dortmund Technical University, Statistics Faculty, Germany, July 26-30, 2010.
- **Researcher**, Tilburg University, Department of Information Systems (BIK)/Center for Economic Research (CentER), School of Economics and Business Administration (FEW), Tilburg, The Netherlands, Summer, 2002.

Research & Teaching Assistant

- **RA & TA**, Department of Statistics, Ege University, İzmir, Turkey, 1991-1994.
- **RA**, Department of History, CMU, Pittsburgh, PA, USA, January-September 1991.
- **RA**, Marketing Department, Graduate School of Industrial Administration, CMU, Pittsburgh, PA, USA, 1990.
- **TA**, Marketing Department, Graduate School of Industrial Administration, CMU, Pittsburgh, PA, USA, Fall, 1989.
- **TA**, Computer Science Department, CMU, Pittsburgh, PA, USA, Summer, 1989.
- **RA**, Department of Statistics, CMU, Pittsburgh, PA, USA, Summer, 1989.
- **RA & TA**, Department of Statistics, Ege University, İzmir, Turkey, 1985-1988.

Curriculum Development

- Bachelor of Science, Department of Statistics, METU, Ankara, Turkey, 2022.
- Master of Science and PhD, Department of Statistics, METU, Ankara, Turkey, 2022.
- Bachelor of Science, Department of Statistics, METU, Ankara, Turkey, 2015.
- Master of Science, without Thesis Statistics Option, Department of Statistics, METU, Ankara, Turkey, 2014.
- Master of Science, Interdisciplinary Statistics Option, Department of Statistics, METU, Ankara, Turkey, 2008.
- Bachelor of Science, Department of Statistics, METU, Ankara, Turkey, 2004.

- Minor, Computer Applied Statistics, Department of Statistics, Ege University, İzmir, Turkey, 1995.

Organization

Organizer

- Graduate Summer School on Recent Advances in Statistics, METU, Ankara, August, 2007.
- Statistics Workshop Organized in Honor of Prof. Dr. Öztaş Ayhan's Institutive Retirement, Ankara, December, 2012.

Organizing Committee Member

- ENBIS 13: 13th Conference of the European Network for Business and Industrial Statistics, Ankara, Turkey, September 18-20, 2013.
- 7. Statistics Days Symposium (Language: Turkish), Ankara, Turkey, June 28-30, 2010.
- Workshop on Recent Developments in Financial Mathematics and Stochastic Calculus, IAM, METU, Ankara, Turkey, April 25-26, 2008.
- ICOSCO-1: First International Conference on Computational Statistics, Computer Engineering Department, Ege University, Çeşme, İzmir, Turkey, April, 1986.

Scientific Program Committee Member

- USMOS 2019: 8th National Defense Applications, Modelling and Simulation Conference, METU, Ankara, Turkey, November 19-21.
- USMOS 2017: 7th National Defense Applications, Modelling and Simulation Conference, METU, Ankara, Turkey, November 21-23.
- 11th International Statistics Days Conference, Bodrum, Turkey, October 3-7, 2018.
- IC-SMHD: International Conference on Information Complexity and Statistical Modeling in High Dimensions with Applications, Cappadocia, Turkey, May 18-21, 2016.
- NEDETAS: New Developments in Theory and Applications of Statistics, An International Conference in Memory Professor Moti Lal Tiku, Ankara, Turkey, May 2-4, 2011.

Advisory Board Member

- AİK: First Conference of Researchers and Statisticians (Language: Turkish), Hacettepe University, Ankara, Turkey, September 12-13, 2013.
- GİS: First Conference of Young Statisticians (Language: Turkish), Hacettepe University, Ankara, Turkey, September 10-11, 2013.

Stream Organizer

- 30th European Conference on Operational Research, Dublin, Ireland, July 23-26, 2019.
- 28th European Conference on Operational Research, Poland, Poznan, July 3-6, 2016.
- YAEM: 35th National Congress of Operations Research and Industrial Engineering (Language: Turkish), Ankara, Turkey, September 9-11, 2015.

- 27th European Conference on Operational Research, Glasgow, UK, July 12-15, 2015.
- IFORS 2014 Triennial Conference, Barcelona, Spain, July 13-18, 2014.
- 26th European Conference on Operational Research-INFORMS, Rome, Italy, July 1-4, 2013.
- 25th European Conference on Operational Research, Vilnius, Lithuania, July 8 - 11, 2012.
- 24rd European Conference on Operational Research, Lisbon, Portugal, July 11-14, 2010.
- 24rd Mini EURO Conference on Continuous Optimization and Information-Based Technologies in the Financial Sector, İzmir, Turkey, June 23-26, 2010.
- 23rd European Conference on Operational Research, Bonn, Germany, July 5 - 8, 2009.

Session Organizer

- IC-SMHD-2016 - International Conference on Information Complexity and Statistical Modelling in High Dimensions with Applications, Nevşehir, Cappadocia, Turkey, May 18-21, 2016.

Consultant

- **METU-Technopolis**, SFM Software Technologies Incorporated Company. Ankara, August 2019-February 2020.
- **TÜBİTAK-SAGE**, Scientific and Technological Research Council of Turkey-Defense Industry, Institute of Research and Development. Ankara, Turkey. 2014- January 2017.
- **Ziraat Bank**, Ankara, Turkey. August-October, 2012.
- **TRT**, Turkish Radio Television, Advisory Board Member, Ankara, Turkey, 2013.
- **ASELSAN**, Defense Electronics Company of Turkish Armed Forces Foundation, Ankara, Turkey. June, 2011.
- **ATO**, Ankara Chamber of Medical Doctors, Ankara, Turkey, 2010.
- **ÖZEM** Education Foundations, Ankara, Turkey, 2006.
- **ÖSYM**, Center of Measuring, Selection and Placement, Ankara, Turkey, 2005.
- **METU-Technopolis**, S.P.A.C., 2004-2005.

SCHOLARSHIPS and AWARDS

Scholarship

- **TÜBİTAK**, International Post-Doctoral Research Fellowship Programme, Imperial College, Department of Mathematics, Statistics Section, London, UK, 2017 - 2018.
- **TÜBİTAK**, Fellowship for Visiting Scientists Program, 2007.
- **TÜBİTAK**, Graduate Summer School Funding Program, 2007.
- **TÜBİTAK**, National Scientific Activities Funding Program, 2007.
- **The Netherlands National Research Foundation (NOW) Research Grand**, Department of Information Systems (BIK)/Center for Economic Research (CentER), School of Economics and Business Administration (FEW), Tilburg University, Tilburg, The Netherlands, Summer, 2002.
- TA Scholarship, **Marketing Department, Graduate School of Industrial Administration, CMU**, Pittsburgh, PA, USA, Fall, 1989.
- RA Scholarship, **CMU**,
 - **Department of History** (January-September 1991);
 - **Marketing Department, Graduate School of Industrial Administration** (1990);
 - **Department of Statistics** (Summer, 1989).

- **Fulbright Doctoral Research Scholarship**, CMU, Department of Statistics, Pittsburgh, PA, USA, 1988-1991.

Awards

- **Best MSc Thesis Award Winner**, METU, Özmen, A., Principal Advisor: Prof. Dr. Gerhard W. Weber, **Co-advisor: Prof. Dr. İnci Batmaz**, 2012.
- **Visiting Lecturer**, ERASMUS Program, Dortmund Technical University, Statistics Faculty, Germany, July 26-30, 2010.
- **Best MSc Thesis Award Winner**, METU, Yerlikaya, F., Principal Advisor: Prof. Dr. Gerhard W. Weber, **Co-advisor: Assoc. Prof. Dr. İnci Batmaz**, 2009.
- **Publication Award**, METU, 2007, 2010, 2011, 2013, 2014, 2015, 2016.
- **Faculty Performance Award**, METU, 2003-2005; 2005-2007; 2007-2009; 2009-2011; 2011-2013; 2016-2017.
- **Publication Support Award**, TÜBİTAK, 2000, 2002, 2003, 2007, 2015.
- **Research Project Reconciliation and Scholarship Reward**, TÜBİTAK, Project Number: YDABÇAĞ-100Y059, 2001.

PUBLISHED PAPERS

2025

AI-driven US drought prediction using machine learning and deep learning. Tanriverdi, İ. and **İ. Batmaz**. *Climate Dynamics*, 63(6), 249.

2023

CMARS: A Predictive Data Mining Package in R. Yerlikaya-Özkurt, F., Yazıcı, C. and **İ. Batmaz**. *SoftwareX*, 2023, 24, 101553.

2021

Interviewer allocation through interview–reinterview nested design for response error estimation in sample surveys. Mahmut Fahmi, F., Ayhan, H.Ö., and **İ. Batmaz**. *Statistics in Transition New Series: An International Journal of the Polish Statistical Association*. January, 2021. June 2021 (2)2, pp. 67–93, DOI 10.21307/stattrans-2021-017.

Learning to rank by using multivariate adaptive regression splines and conic multivariate adaptive regression splines. Altınok, G., Karagöz, P., and **Batmaz, İ.** *Computational Intelligence*. 2021, 37, 371-408. PubDate: 2020-10-22T05:51:16-07:00. DOI: 10.1111/coin.12413.

2019

Association of Serum 25-Hydroxyvitamin D Concentrations with Sleep Phenotypes in a German Community Sample. Dogan, E., Willenberg, A., **Batmaz, İ.**, Enzenbach, C., Wirkner, K., Kohls, E., Mergl, R., Thiery J., Kratzsch, J., Hegerl, U., and C. Sander. *PloS one*. 2019, 14(7), e0219318.

2017

A Data Mining Application to Deposit Pricing: Main Determinants and Prediction Models. **Batmaz, İ.**, Danişoğlu, S., Kartal-Koç, E., and C. Yazıcı. *Applied Soft Computing (for Business Analytics)*. 2017, 60, 808-819.

2016

Has the climate been changing in Turkey? Regional climate change signals based on a comparative statistical analysis of two consecutive time periods, 1950-1980 and 1981-2010. Türkeş, M., Yozgatlıgil, **Batmaz, İ.**, C., İyigün, C., Kartal-Koç, E., Fahmi, F. and Aslan, S. *Climate Research*. 2016, 70, 77-93.

Dynamic Simulation Metamodeling Using MARS: A case of Radar. Bozağaç, D., **Batmaz, İ.**, and H. Oğuztüzün. *Mathematics and Computers in Simulation*. 2016, 124, 69-86.

2015

- A Computational Approach to Nonparametric Regression: Bootstrapping CMARS Method. Yazıcı, C., Yerlikaya-Özkurt, F. and **İ. Batmaz**. *Machine Learning*. 101(1-2), 211-230.
- 2014 Efficient Adaptive Regression Spline Algorithms Based on Mapping Approach with a Case Study on Finance. Kartal-Koç, E., İyigün, C., **Batmaz, İ.** and G.-W. Weber. *Journal of Global Optimization*. 2014, 60, 103-120.
- Precipitation Modeling by Polyhedral RCMARS and Comparison with MARS and CMARS. Özmen, A., **Batmaz, İ.**, and G.-W. Weber. *Environmental Modeling and Assessment*. 2014, 19, 425-435.
- 2013 Clustering Current Climate Regions of Turkey by Using a Multivariate Statistical Method. İyigün, C., Türkeş, M., **Batmaz, İ.**, Yozgatlıgil, C. Purutçuoğlu-Gazi, V., Kartal-Koç, E., and M.Z., Öztürk. *Theoretical and Applied Climatology*. 2013, 114 (1), 95-106.
- The Effect of Inspection Error on Quality and Producer Losses: The Case of Nominal-the Best Type Quality Characteristic and Rework. Köksal, G., Taşeli, A., Dolgun, L.E., and **İ. Batmaz**. *European Journal of Industrial Engineering (EJIE)*. 2013, 7 (4), 497-528.
- Determining Treatability of Primary Teeth with Pulpal Exposure. Doğan, S., Durutürk, L., Orhan, A.I., and **İ. Batmaz**. *Journal of Clinical Pediatric Dentistry*. 2013, 37 (4), 345-350
- 2012 Comparison of Missing Value Imputation Methods for Turkish Meteorological Time Series Data. Aslan, S., Yozgatlıgil, C., İyigün, C., and **İ. Batmaz**. *Theoretical and Applied Climatology*. 2012, 112, 143–167.
- A New Contribution to Nonparametric Regression with Multivariate Adaptive Regression Splines Supported by Continuous Optimization. Weber, G.-W., **Batmaz, İ.**, Köksal, G., Taylan, P., and F. Yerlikaya-Özkurt. *Inverse Problems in Science and Engineering*. 2012, 20 (3), 371–400.
- 2011 A Review of Data Mining Applications for Quality Improvement in Manufacturing Industry. Köksal, G., **Batmaz, İ.**, and M.C. Testik. *Expert Systems with Applications*. 2011, 38 (10), 13448-13467.
- Estimating the Neutral Real Interest Rate in an Emerging Market Economy. Ögünç, F., and **İ. Batmaz**. *Applied Economics*. 2011, 43 (6), 683 – 693.
- RCMARS: Robustification of CMARS with Different Scenarios under Polyhedral Uncertainty Set. Özmen, A., Weber, G.-W., **Batmaz, İ.**, and Erik Kropat. *Communications in Nonlinear Science and Numerical Simulation (CNSNS): Nonlinear, Fractional and Complex*. 2011, 16, 4780-4787.
- Performance Comparison of Missing Data Imputation Methods in Meteorological Time Series Using Correlation Dimension Analysis (in Turkish). Aslan, S., Yozgatlıgil, C., İyigün, C., **Batmaz, İ.**, and H. Tatlı. *Journal of Statistical Research*. 2011, 8 (2), 55-67.
- Comparison of the Fluoride Recharge Profiles of Various Restorative Materials by Linear Regression Modeling. Can-Karabulut, D., **Batmaz, İ.**, Taştekin, M., and H. Solak. *Clinical Dentistry and Research*. 2011, 35(3), 17-27.

Identifying Climate Regions of Turkey Using Hierarchical Clustering Method (in Turkish). Fahmi, F., Kartal-Koç, E., İyigün, C., Türkeş, M., Yozgatlıgil, C., Purutçuoğlu, V., **Batmaz, İ.**, and G. Köksal. *Journal of Statistical Research*. 2011, 8 (1), 13-25.

2010

Classification Models Based on Tanaka's Fuzzy Linear Regression Approach: The Case of Customer Satisfaction Modeling. Şikkeli, G., Köksal, G., **Batmaz, İ.**, and Ö. Türker-Bayrak. *Journal of Intelligent and Fuzzy Systems: Applications in Engineering and Technology*. 2010, 21 (5), 341-351.

Use of Data Mining Techniques for Improving Quality in Manufacturing (in Turkish). Köksal, G., **Batmaz, İ.**, Testik, M.C., and F. Güntürkün. *Verimlilik Dergisi*. 2010, 2, 47-65.

2005-2009

Adhesion to Primary and Permanent Dentin and a Simple Model Approach. Can-Karabulut, D.C., Öz, F.T., Karabulut, B., **Batmaz, İ.**, and Ö. İlk. *European Journal of Dentistry*. 2009, 3, 32-41.

Linear Regression Modeling to Compare Fluoride Release Profiles of Various Restorative Materials. Can-Karabulut, D., **Batmaz, İ.**, Solak, H., and M. Taştekin. *Dental Materials*. 2007, 23, 1057-1065.

Modeling and Analysis of Qualitative and Quantitative Variables Jointly (in Turkish). **Batmaz, İ.** *Altı Sigma Forum*. 2005, 2, 55-58.

2000-2004

Validations of Assumptions and Remedial Measures in Regression Analysis (in Turkish). **Batmaz, İ.** *Altı Sigma Forum*. 2004, 1, 64-66.

Small Response Surface Designs for Metamodel Estimation. **Batmaz, İ.**, and S. Tunalı. *European Journal of Operational Research*. 2003, 145, 455-470.

A Metamodeling Methodology Involving both Quantitative and Qualitative Variables. Tunalı, S., and **İ. Batmaz**. *European Journal of Operational Research*. 2003, 150, 437-450.

An Automatic User Input Analyzer for Simulation (in Turkish). Tanıl, H., and **İ. Batmaz**. *Journal of Statistical Research*. 2003, 2 (3), 31-47.

Second-Order Experimental Designs for Simulation Metamodeling. **Batmaz, İ.**, and S. Tunalı. *Transactions of the Society for Computer Simulation*. 2002, 78, 699-715.

Dealing with the Least Squares Regression Assumptions in Simulation Metamodeling. Tunalı, S., and **İ. Batmaz**. *Computers and Industrial Engineering, an International Journal*. 2000, 38, 307-320.

BOOKS and CHAPTERS in BOOKS

2022

- Data Mining Approaches to Meteorological Data: A Review of NINLIL Climate Research Group Studies. **Batmaz, İ.** *Operations Research*. CRC Press, 2022, 107-133.

2014-2018

- A Categorical Principal Component Regression on Computer Assisted Instruction in Probability Domain. Kapucu, T., İlk, Ö., and İ. **Batmaz**. *Trend and Perspectives in Linear Statistical Inference (Proceedings of LINSTAT'16)*. Springer, 2018.
- A Review and New Contribution on Conic Multivariate Regression Splines (CMARS): A Powerful Tool for Predictive Data Mining. Yerlikaya-Özkurt, F., **Batmaz, İ.**, and G.-W. Weber. In: *Modeling, Dynamics, Optimization and Bioeconomics I*. D. Zilberman and A. A. Pinto (Eds.). Switzerland: Springer, 2014, 37, 695-722.

2011-2012

- Robust Regression Metamodeling of Complex Systems: The Case of Solid Rocket Motor Performance Metamodeling. Kartal-Koç, E., **Batmaz, İ.**, and G.-W. Weber In: *Advances in Intelligent Modelling and Simulation: Simulation Tools and Applications*. A. Byrski, Z. Oplatkova, M. Carvalho, M. Kisiel-Dorohinicki, Series Editor: Prof. J. Kacprzyk (Eds.). Volume 416/2012. Berlin, Heidelberg: Springer Verlag, 2012, 221-251.
- Determining the Climate Zones of Turkey by Center-Based Clustering Methods. Fahmi, F., Kartal, E., İyigün, C., Türkeş, M., Yozgatlıgil, C., Purutçuoğlu, V., **Batmaz, İ.**, and G. Köksal. In: *Nonlinear and Complex Dynamics: Applications in Physical, Biological and Financial Systems*. J.A. Tenreiro Machado, Baleanu, D. and A.C.J. Luo (Eds.). New York: Springer, 2011, 171-178.
- Overview of Knowledge Discovery in Databases Process and Data Mining for Surveillance Technologies and EWS. **Batmaz, İ.**, and G. Köksal. In: *Surveillance Technologies and Early Warning Systems: Data Mining Applications for Risk Detection*. A.S. Koyuncugil and N. Özgülbaş (Eds.). Hershey, PA: IGI Global Publisher (Idea Group Publisher), 2011, 1-30.

2005-2009

- Recent Advances in Statistics. (Eds.) Ayhan, H.Ö., and İ. **Batmaz**. Ankara: Turkish Statistics Institute (TÜİK) Press, 2007. ISBN: 978-975-01606-0-8.
- Introduction. **Batmaz, İ.**, and H.Ö. Ayhan, In: *Recent Advances in Statistics*. H.Ö. Ayhan, and İ. **Batmaz** (Eds.). Ankara: Turkish Statistics Institute (TÜİK) Press, 2007, 1-3.
- Data Mining Applications on Manufacturing Data: A Casting Quality Improvement Case. **Batmaz, İ.** In *Recent Advances in Statistics*. H.Ö. Ayhan and İ. **Batmaz** (Eds.). Ankara: Turkish Statistics Institute (TÜİK) Press, 2007, 197-206.

Before 2000

- A Comparative Study of Parameter Estimation Methods for the Logistic Distribution. **Batmaz, İ.** In: *The Frontiers of Statistical Computation, Simulation and Modeling*. P. R. Nelson (Ed.). Ohio, Columbus: American Sciences Press, Inc. (Gale Group Inc.), 1991, 289-298.

PAPER WORK IN PROGRESS

Unveiling Economic Patterns in Türkiye: Crisis and Policy Regimes Through TICC Analysis. Dalkılıç Açıkgöz, B., İ. **Batmaz**, C. Yozgatlıgil, and S. N. Sülkü.

StreamMARS: A Streaming Multivariate Adaptive Regression Splines Algorithm. **Batmaz, İ.**, and N. Adams.

A Computational Approach to Detect Inhomogeneities in Time Series Data. Yazıcı, C., Yozgatlıgil, C., and İ. **Batmaz**.

A Comparative Study on Computational In-painting Methods. **Batmaz, İ.**, Ulusoy, İ., and C. Kurt.

PAPERS PUBLISHED in PROCEEDINGS

2020

StreamCMARS: A Streaming Conic Multivariate Adaptive Regression Splines Algorithm. **Batmaz, İ.**, and N. Adams. To be submitted to *24th International Conference on Computational Statistics (COMPSTAT 2020)*. To be held in Bologna, Italy, 25-28 August, 2020.

2017

A Comparative Study on Learning to Rank with Computational Methods. **Batmaz, İ.**, Karagöz, P. and G. Serdar. *2017 IEEE International Conference on Big Data (IEEE Big Data 2017)*. Boston, USA. Memory Stick.

2015

Response Variance Estimation in Personal Interview Surveys with Several Interviewer Allocation Schemes. **Batmaz, İ.** and F. Mahmut Fahmi. *Proceedings of 60th World Statistics Congress-ISI 2015*. Rio de Janeiro, Brazil, 26-31 July, 2015, 0-5.

A Bootstrap Application on the Standard Normal Homogeneity Test (SNHT) when there is not Highly Correlated Reference Series. Yazıcı, C., **Batmaz, İ.** and C. Yozgatlıgil. *Proceedings of 60th World Statistics Congress-ISI 2015*. Rio de Janeiro, Brazil, 26-31 July, 2015, 3597-3602.

2014

Consensus Clustering of Time Series Data, Yetere-Kurşun, A. İyigün, C., and **İ. Batmaz**. *Proceedings of COMPSTAT 2014: 21st International Conference on Computational Statistics and 5th IASC World Conference*. Geneva, Switzerland, August 19-22, 2014. 665-672.

2012

Seasonal Variation of Turkey: A Consensus Clustering Approach. Yetere-Kurşun, A., İyigün, C., Yozgatlıgil, C., and **İ. Batmaz**. *FLINS 2012: 10th International FLINS Conference on Uncertainty Modeling in Knowledge Engineering and Decision Making*. İstanbul Technical University, Maçka Campus, İstanbul, Turkey. 26-29 August, 2012. CDROM.

2011

Studying the Effect of Climate Change on Turkey by Clustering Methods (in Turkish). Fahmi, F., Kartal, E., İyigün, C., Yozgatlıgil, C., Çınar, İ., Aslan, S., Öztürk, M.Z., Türkeş, M., and **İ. Batmaz**. *Geography Conference with International Participation*. İstanbul, Turkey. 7-10 September, 2011. CDROM.

Validity of Homogeneity Tests for Meteorological Time Series Data: A Simulation Study. Yozgatlıgil, C., Purutçuoğlu, V., Yazıcı, C., and **İ. Batmaz**. *58th ISI World Statistics Congress*. Dublin, Ireland. August, 2011. Memory Stick.
(<http://isi2011.congressplanner.eu/>)

RCMARS – Robust CMARS Method and a Numerical Application (in Turkish). Özmen, A., Weber, G.-W., and **İ. Batmaz**. *7. Statistics Days Symposium (İGS'7 2011) Bildiriler Tam Metinler Kitabı*. Ankara, Turkey. June 28-30, 2011, 102-110.

2010

A Comprehensive Comparison of Data Mining Methods used for Classification and Prediction in Manufacturing (in Turkish). **Batmaz, İ.**, Köksal, G., Karasakal, E., and Z. Anaklı. *10. Symposium of Production Research*. Girne, Cyprus. September 16-18, 2010, 167-173.

The New Robust CMARS (RCMARS) Method. Özmen, A., Weber, G.-W., and **İ. Batmaz**. *Proceedings of 24th MEC-EurOPT 2010 - Continuous Optimization and*

Information-Based Technologies in the Financial Sector. İzmir, Turkey. June 23-26, 2010, 362-368.

Evaluating the CMARS Performance for Modeling Nonlinearities. **Batmaz, İ.**, Yerlikaya-Özkurt, F., Kartal-Koç, E., Köksal, G., and Weber, G.-W. *Global Conference on Power Control and Optimization PCO 2010*. Queensland, Australia. February 2-4, 2010. ISBN: 978-983-44483-1-8. CDROM. Also in *AIP Conference Proceedings*, Volume 1239, Power Control and Optimization: Proceedings of the 3rd Global Conference on Power Control and Optimization, Gold Coast (Australia), 2-4 February 2010, ISBN: 978-0-7354-0785-5 (AIP: American Institute of Physics), 351-357.

2009

Classification Models Based on Tanaka's Fuzzy Linear Regression Approach: The Case of Customer Satisfaction Modeling. Özer, G., Köksal, G., **Batmaz, İ.**, Türker-Bayrak, Ö., Kılıç, T., and E. Kartal-Koç. *Proceedings of 1st International Fuzzy Systems Symposium*. Ankara, Turkey. October 1-2, 2009, 233-240.

Modeling Quality of a Casting Process Using Fuzzy Regression Method (in Turkish). Türker-Bayrak, Ö., Köksal, G., **Batmaz, İ.**, Kılıç, T., Özer, G., and E. Kartal-Koç. *YA/EM'09: 29th National Congress of Operations Research and Industrial Engineering*. Ankara, Turkey. June 22-24, 2009, 138. ISBN: 978-975-6090-45-9. CDROM.

Modeling Nonlinear Data Structure Using CMARS (in Turkish). Yerlikaya-Özkurt, F., **Batmaz, İ.**, Taylan, P., Köksal, G., and G.-W. Weber. *YA/EM'09: 29th National Congress of Operations Research and Industrial Engineering*. Ankara, Turkey. June 22-24, 2009, 94. ISBN: 978-975-6090-45-9. CDROM.

2008

Developing a Classification Model for Customer Satisfaction with a Driver's Seat: A Comparative Case Study. Köksal, G., **Batmaz, İ.**, and E. Kartal-Koç. *Proceedings of the 6th International Symposium on Intelligent and Manufacturing Systems*. Sakarya, Turkey. October 14-17, 2008, 520-530.

Tikhonov Regulations in MARS and Multicriteria Optimization (in Turkish). Yerlikaya, F., Weber, G.-W., Taylan, P., **Batmaz, İ.**, and G. Köksal. *YA/EM'08: 28th National Congress of Operations Research and Industrial Engineering*. İstanbul, Turkey. June 30 – July 2, 2008, 71. CDROM.

2006

Defect Cause Modeling with Decision Tree and Regression Analysis. Bakır, B., **Batmaz, İ.**, İpekçi, İ.A., Köksal, G., and N.E. Özdemirel. *Enformatika: Proceedings of XVII. International Conference on Computer and Information Science and Engineering*. Cairo, Egypt. December, 2006, 266-269.

1992

Rule-Based Expert System for Designing Best Factorial Experiment (in Turkish). **Batmaz, İ.** *Research Symposium '92*. November, 1992. State Statistics Institute (DİE), Ankara, Turkey.

Designing User Interface for Intelligent Statistical Software. **Batmaz, İ.** *NATO/ARW on Natural Dialogue and Interactive Student Modeling*. Varenna, Italy. October, 1992, 26-37.

1991

An Intelligent System for Designing and Analyzing Factorial Experiments (in Turkish). **Batmaz, İ.** *Research Symposium '91*. State Statistics Institute (DİE), Ankara, Turkey. November, 1991.

The Use of PROLOG in Constraint Satisfaction Problems. Orhun, E., Tunali, S., and **İ. Batmaz**. *Proceedings of the Second International Symposium on Computer and Information Sciences*. İstanbul, Turkey. October, 1987, 355-365.

PAPERS PUBLISHED in ABSTRACT BOOKS

2019

StreamMARS: A Streaming Multivariate Adaptive Regression Splines Algorithm. **Batmaz İ.**, and N.M. Adams. *12th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2019)*. London, UK, 14-16 December, 2019. CDROM.

2018

Input variable selection for hydrological predictions in ungauged catchments: with or without clustering? Doğulu, N., Kentel, E., and **İ. Batmaz**. *EGU 2018: European Geosciences Union General Assembly*. Vienna, Austria, 8-13 April, 2018. CDROM.

Clustering approaches for analysing similarity in ungauged catchments: input variable selection for hydrological predictions. Doğulu, N., Kentel, E., and **İ. Batmaz**. *EGU 2018: European Geosciences Union General Assembly*. Vienna, Austria, 8-13 April, 2018. CDROM.

2017

Application of Bootstrap to Likelihood Ratio Test to Detect Multiple Change Points in Small Time Series Data. Yazici, C., Yozgatligil, C. and **İ. Batmaz**. *IFORS'2017: 21st of Federation of Operations Research Societies*. Quebec, Canada, July 17-21, 2017, 14.

2016

Detection performance of likelihood ratio test for change-points based on bootstrap for AR(1) models. Yazici, C., Yozgatligil, C. and **İ. Batmaz**. *COMPSTAT 2016: 22nd International Conference on Computational Statistics*, Oviedo, Spain, August 23-26, 2016, 20.

The Effect of Computer Assisted Instruction on Eight Grade Students' Permutation-Combination-Probability Achievement and Attitudes Towards Computer Assisted Learning. Kapucu, T., İlk Dağ, Ö. and **İ. Batmaz**. *Linstat '16: International Conference on Trends and Perspectives in Linear Statistical Inference*, İstanbul Tukey, 22-25 August, 2016.

Image In-Painting - A Comparative Study with Related Techniques. Kurt, C., Ulusoy, İ. and **İ. Batmaz**. *IC-SMHD-2016 - International Conference on Information Complexity and Statistical Modeling in High Dimensions with Applications*, Nevşehir, Cappadocia, Turkey, May 18-21, 2016.

Learning to Rank on Web Data by Using Multivariate Adaptive Regression Splines Technique. Serdar, G., Karagöz, P. and **İ. Batmaz**. *IC-SMHD-2016 - International Conference on Information Complexity and Statistical Modelling in High Dimensions with Applications*, Nevşehir, Cappadocia, Turkey, May 18-21, 2016.

Statistical Modeling in High Dimensions with Applications Modeling of Precipitation Amount of Turkey by Multivariate Adaptive Regression Splines. Mansyrov, R., Yazıcı, C., Yozgatligil, C. and **İ. Batmaz**. *IC-SMHD-2016 - International Conference on Information Complexity and Statistical Modelling in High Dimensions with Applications*, Nevşehir, Cappadocia, Turkey, May 18-21, 2016.

2015

Developing Absence-Presence Models of Precipitation Data for Certain Regions of Turkey by Hidden Markov Models (in Turkish). Yaman N., Yozgatligil, C. and **İ.**

Batmaz. *YAEM: 35th National Congress of Operations Research and Industrial Engineering*, Ankara, Turkey, September 9-11, 2015.

Modeling Precipitation Amounts for Certain Regions of Turkey by Hidden Markov Models (in Turkish). Yozgatlıgil, C., **Batmaz, İ.** and N. Yaman. *YAEM: 35th National Congress of Operations Research and Industrial Engineering*, Ankara, Turkey, September 9-11, 2015.

Determining Different Regimes Using Nonlinear Time Series with a Threshold Value Model: An Application on Turkey Precipitation Data (in Turkish). Aslan, S., Yozgatlıgil, C., İyigün, C. and **İ. Batmaz.** *YAEM: 35th National Congress of Operations Research and Industrial Engineering*, Ankara, Turkey, September 9-11, 2015.

The Precipitation Modeling of Aegean Region of Turkey with Multivariate Adaptive Regression Splines and Time Series Regression. Yazıcı, C., **Batmaz, İ.** and C. Yozgatlıgil. *27th European Conference on Operational Research*. Glasgow, UK, 12-15 July, 2015.

Modeling Daily Occurrence of Precipitation for Certain Regions of Turkey Using Hidden Markov Models (HMMs). **Batmaz, İ.**, Yaman, N. and C. Yozgatlıgil. *27th European Conference on Operational Research*. Glasgow, UK, 12-15 July.

2014

Precipitation Prediction by Hidden Markov Models. **Batmaz, İ.**, Sivrikaya, N., Yazıcı, C., and C. Yozgatlıgil. *IFORS 2014: 20th Conference of the International Federation of Operational Research Societies*. Barcelona, Spain, 13-18 July, 2014.

2013

Investigating the Performance of Bootstrapping Conic MARS (BCMARS) Method for Large Datasets. **Batmaz, İ.**, and C. Yazıcı. *ENBIS 13: European Network for Business and Industrial Statistics*. Ankara, Turkey, 15-19 September, 2013. (online)

Modeling the Extreme Precipitation Data: Case Study from Turkey. Aksoy, B., Purutçuoğlu, V., **Batmaz, İ.**, and C. Yozgatlıgil. *26th European Conference on Operational Research-INFORMS*. Rome, Italy. July 1-4, 2013, 221.

Comparison of Parametric and Nonparametric Statistical Models for Predicting Interest Rate. **Batmaz, İ.**, Kartal Koç, E., and C. Yazıcı. *26th European Conference on Operational Research-INFORMS*. Rome, Italy. July 1-4, 2013, 123.

Short - Term Electricity Load Forecasting via Nonparametric Prediction Methods. Ergin, E., Arat, M.M., İyigün, C., and **İ. Batmaz.** *26th European Conference on Operational Research-INFORMS*. Rome, Italy. July 1-4, 2013, 123.

A New Knot Selection Approach for Adaptive Regression Splines Based on a Nonlinear Mapping. İyigün, C., Kartal Koç, E., and **İ. Batmaz.** *26th European Conference on Operational Research-INFORMS*. Rome, Italy. July 1-4, 2013, 354.

2012

Developing Precipitation Models for Continental Central Anatolia, Turkey. Aykan, F., Kartal-Koç, E., Yozgatlıgil, C., İyigün, C., Purutçuoğlu-Gazi, V., and **İ. Batmaz.** *25th European Conference on Operational Research*. Vilnius, Lithuania. 8-11 July, 2012, 208.

Detection of Seasonal Changes in Climate Data by Comparative Analysis: A case Study for Turkey. Akay, T., Fahmi, F., Kartal-Koç, E., Purutçuoğlu-Gazi, V., İyigün,

C., Yozgatlıgil, C., and **İ. Batmaz**. *25th European Conference on Operational Research*. Vilnius, Lithuania. 8-11 July, 2012, 208.

Reconstructing the Forward Step of CMARS by a Mapping Approach. Kartal-Koç, E., İyigün, C., **Batmaz, İ.**, and G.-W. Weber. *25th European Conference on Operational Research*. Vilnius, Lithuania. July 8-11, 2012, 234.

Developing precipitation models for continental central Anatolia, Turkey. Aykan, F., Kartal-Koç, E., Yozgatlıgil, C., İyigün, C., Purutçuoğlu, V., **İ. Batmaz**. *25th European Conference on Operations Research*. Vilnius, Lithuania. July 8-11 July, 2012, 204.

2011

A Computational Approach to Nonparametric Regression: Bootstrapping the CMARS Method, **Batmaz, İ.**, Yerlikaya-Özkurt, F., and Yazıcı, C., *ERCIM'11: 4th International Conference of the ERCIM Working Group on Computing and Statistics*. London, UK. December 17-19, 2011, 115.

New Software for Predictive Data Mining: The Conic Multivariate Adaptive Regression Splines (CMARS) Algorithm. Yazıcı, C., Yerlikaya-Özkurt, F., and **İ. Batmaz, İ.** *ERCIM'11: 4th International Conference of the ERCIM Working Group on Computing and Statistics*. London, UK. December 17-19, 2011, 115.

Analysis of Extreme Precipitation Events in Turkey. Asar, Ö., Yozgatlıgil, C., Kartal, E., and **İ. Batmaz**. *7. International Statistics Congress (ISKON)*. Antalya, Turkey. April 28 – May 1, 2011, 164-165.

Homogeneity Analysis for Dependent Climate Data. Yazıcı, C., Purutçuoğlu, V., Yozgatlıgil, C., **Batmaz, İ.**, and K. Bayramoğlu. *7. International Statistics Congress (ISKON)*. Antalya, Turkey. April 28 – May 1, 2011, 194-195.

2010

Comparison of Missing Value Imputation Methods for Turkish Monthly Total Precipitation Data. Aslan, S., Yozgatlıgil, C., İyigün, C., **Batmaz, İ.**, Türkeş, M., and H. Tatlı. *9th International Conference Computer Data Analysis and Modeling: Complex Stochastic Data and Systems*. Minsk, Belarus. 7-11 September, 2010, 137-140.

RCMARS - The New Robust CMARS Method. Özmen, A., Weber, G.-W. and **İ. Batmaz**. *International Conference Operations Research (OR 2010)*. Munich, Germany. 1-3 September, 2010, 213.

Comparison of Regression Methods by Employing Bootstrapping Methods. Yetere-Kurşun, A., and **Batmaz, İ.** *COMPSTAT2010: 19th International Conference on Computational Statistics*. Paris, France. August 22-27, 2010, 92.

Comparing Missing Imputation Methods in Time Series: An Application on Turkey Climate Data (in Turkish). Yozgatlıgil, C., Aslan, S., İyigün, C., **Batmaz, İ.**, Türkeş, M., and Tatlı, H. *YAEM'2010: 30th National Congress of Operations Research and Industrial Engineering*. İstanbul, Turkey. 30 June-2 July, 2010, 127.

Data Mining Approaches for Good Quality Data and Process Development in Manufacturing Industry (in Turkish). Köksal, G., and **İ. Batmaz**. *İGS'2010: 7. Statistics Days Symposium*. Ankara, Turkey. June 28 - 30, 2010, 80.

RCMARS: Robust CMARS Method and a Numerical Application (in Turkish). Özmen, A., Weber, G.-W., and **Batmaz, İ.** *İGS'2010: 7. Statistics Days Symposium*. Ankara, Turkey. June 28-30, 2010, 59-60.

Nonlinear Dynamic Time Series Analysis and Use of Correlation Dimension as a Performance Criterion for Comparing Missing Data Imputation Methods (in Turkish). Aslan, S., Yozgatlıgil, C., İyigün, C., **Batmaz, İ.**, and Tatlı, H. *İGS'2010: 7. Statistics Days Symposium*. Ankara, Turkey. 28-30 June, 2010, 100-102.

A Simulation Study on the Usability of SNHT Homogeneity Test for Precipitation Data (in Turkish). Yozgatlıgil, C., Purutçuoğlu, V., Yazıcı, C., and **İ. Batmaz.** *İGS'2010: 7. Statistics Days Symposium*. Ankara, Turkey. 28-30 June, 2010, 32-34.

Analysis of Turkey Precipitation Data from 1950 to 2006 Using Descriptive Data Mining Techniques (in Turkish). Asar, Ö., Kartal-Koç, E., Aslan, S., Öztürk, M. Z., Yozgatlıgil, C., Çınar, İ., **Batmaz, İ.**, Köksal, G., Türkeş, M., and H. Tatlı. *İGS'2010: 7. Statistics Days Symposium*. Ankara, Turkey. June 28-30, 2010, 77-79.

Identifying Climate Regions of Turkey Using Hierarchical Clustering Method (in Turkish). Fahmi, F. M., Kartal-Koç, E., İyigün, C., Türkeş, M., Yozgatlıgil, C., Purutçuoğlu, V., **Batmaz, İ.**, and G. Köksal. *İGS'2010: 7. Statistics Days Symposium*. Ankara, Turkey. June 28-30, 2010, 137-138.

Determining the Recharging Capacity of Dental Materials by Using Linear Regression Modeling. Can-Karabulut, D.C., **Batmaz, İ.**, Solak, H., and M. Taştekin. *4th International Meeting on Methodological Issues in Oral Health Research*. İstanbul, Turkey. 21–23 April, 2010, 33.

2009

Comparison of Data Mining Algorithms for Classification and Prediction in Quality Improvement. Köksal, G., Anaklı, Z., **Batmaz, İ.**, Yerlikaya Özkurt, F., Testik, M.C., Kartal-Koç, E., Kayalıgil, S., Bakır, B., and E. Karasakal. *23rd European Conference on Operational Research*. Bonn, Germany. July 5-8, 2009, 39.

Nonparametric Improved Fuzzy Classifier Function Approach for Classification Based on Customer Satisfaction Survey Data. Özer, G., Kılıç, T., Kartal-Koç, E., **Batmaz, İ.**, Türker-Bayrak, Ö., Köksal, G., and B.A. Türksen. *23rd European Conference on Operational Research*. Bonn, Germany. July 5-8, 2009, 63.

Multicriteria Optimization for the Performance of Solid Rocket Motor. Kartal-Koç, E., **Batmaz, İ.**, and G. Köksal. *23rd European Conference on Operational Research*. Bonn, Germany. July 5-8, 2009, 251.

A Statistical Approach for Comparing Performances of Alternative Metamodels. **Batmaz, İ.**, and E. Kartal-Koç. *23rd European Conference on Operational Research*. Bonn, Germany. July 5-8, 2009, 299.

A Modification of MARS by Tikhonov Regularization and Conic Quadratic Programming for Modeling Quality Data. Yerlikaya-Özkurt, F., Taylan, P., **Batmaz, İ.**, Köksal G., and G.-W. Weber. *23rd European Conference on Operational Research*. Bonn, Germany. July 5-8, 2009, 299.

Comparison of Linear and Robust Regression Methods for Metamodeling Complex Systems. Dönmez, A., Kartal, E., **Batmaz, İ.**, and B. Kuran. *23rd European Conference on Operational Research*. Bonn, Germany. July 5-8, 2009, 299.

Crystal Structure Characteristics of Primary Tooth Enamel of Children Sensitive or Resistant to Decay (in Turkish). Doğan, S., Durutürk, L., **Batmaz, İ.**, Tinçer, T., and E. Yüzüak. 16. *Turkish Pedodonti Association Congress*. Çeşme, Turkey. May 21-24, 2009, 70-71.

2008

Comparison of Linear and Nonlinear Metamodeling Techniques for Complex Systems. Kartal, E., and **İ. Batmaz**, *COMPSTAT 2008: International Conference on Computational Statistics*. Porto, Portugal. 24-29 August, 2008, 295.

Optimization of Casting Process Using Artificial Neural Networks. İpekci, A.I., Bakır, B., **Batmaz, İ.**, and M.C. Testik. *International Conference on Multivariate Statistical Modeling and High Dimensional Data Mining (HDM-2008)*. Kayseri, Turkey. June 19-23, 2008, 128.

2007

The Role of Bleeding Criteria for Evaluating the Status of Exposed Dental Pulp (in Turkish). Doğan, S., Orhan, A.I., Durutürk, L., and **İ. Batmaz**. 15. *Turkish Pedodonti Association Congress*. Antalya, Turkey. October, 2007, 153-154.

Defect Cause Modeling with Data Mining: Decision Trees and Neural Networks. **Batmaz, İ.**, İpekçi, A. İ., Bakır, B., Testik, M.C., and N.E. Özdemirel. *56th Session of the International Statistical Institute*. Lisbon, Portugal. August, 2007, 412.

Data Mining Applications in Quality Improvement: A Tutorial and a Literature Review. Köksal, G., Testik, M.C., Güntürkün, F.A., and **İ. Batmaz**. *22nd European Conference on Operational Research*. Prague, Hungary. July, 2007, 148.

Modeling Complex Systems Using Linear and Nonlinear Regression Metamodels. Kartal, E., **Batmaz, İ.**, and B. Kuran. *22nd European Conference on Operational Research*. Prague, Hungary. July, 2007, 149.

Before 2000

An Intelligent Tutoring System that Teaches Basic Probability Theory by Solving Examples (in Turkish). Baskan, O., and **İ. Batmaz**. *Research Symposium '94*. State Statistics Institute (DİE), Ankara, Turkey. November, 1994, 75-76.

A Comparative Study of Parameter Estimation Methods for the Logistic Distribution. **Batmaz, İ.** *ICOSCO-I, The First International Conference on Statistical Computing*, Çeşme, İzmir, March-April, 1987, 583.

PRESENTATIONS

2016

Statistical Modeling of Fluoride Release Profiles of Various Dental Restorative Materials in three Buffer Solutions. Yoruç Hazar, A. B. and **İ. Batmaz**. TechConnect World Innovation Conference, Expo and National Innovation Summit, Maryland, USA, May 22-25, 2016.

2013

Comparison of Various Data Mining Methods for Interest Predicting (in Turkish). **Batmaz, İ.**, Kartal Koç, E., and C. Yazıcı. *AİK: First Conference of Researchers and Statisticians*, Hacettepe University, Ankara, September 12-13, 2013.

Comparing Performances of Nonparametric Statistical Models Built for Predicting Interest of Time Deposit Accounts (in Turkish). Yazıcı, C., Kartal Koç, E., and **İ. Batmaz**. *GİS: First Conference of Young Statisticians*, Hacettepe University, Ankara, September 10-11, 2013.

2012

A Simulation Study on the Performances of Homogeneity Tests Applied in Meteorological Studies. Yazıcı, C., Yozgatlıgil, C., and **İ. Batmaz**. *ICACM-International Conference on Applied and Computational Mathematics*. METU, Ankara, Turkey. October 3-6, 2012.

ARID-2C: Automated Re-sampling of Imbalanced Data for Binary Classification with Performance Evaluation by Promethee. Batu, B.B., **Batmaz, İ.**, and G. Köksal. *ICACM-International Conference on Applied and Computational Mathematics*. METU, Ankara, Turkey. October 3-6, 2012.

Analyzing the Long-term Projections of Precipitation Totals via Linear and Nonlinear Time Series Models. Aslan, S., Yozgatlıgil, C., İyigün, C., and **İ. Batmaz**. *ICACM-International Conference on Applied and Computational Mathematics*. METU, Ankara, Turkey. October 3-6, 2012.

Investigating the Seasonal Patterns of Continental Central Anatolia by Clustering. Akal, T., Purutçuoğlu Gazi, V., **Batmaz, İ.**, Kartal Koç, E., İyigün, C., Yozgatlıgil C. *25th Conference of European Chapter on Combinatorial Optimization*, Antalya, Turkey. 26-28 April, 2012.

Spectral Clustering on Time Series Data. Aslan, S., C. İyigün., C. Yozgatlıgil., **İ. Batmaz**. *25th Conference of European Chapter on Combinatorial Optimization*, Antalya, Turkey. 26-28 April, 2012.

2011

The Effect of Urban Land Cover Change around the Observation Sites on Temperature. Çınar, İ., Yozgatlıgil, C., and **İ. Batmaz**. *International Symposium on Environmental Protection and Planning: Geographic Information Systems (GIS) and Remote Sensing (RS) Applications (ISEPP)*. Gediz University, İzmir, Turkey. 28-29 June 2011.

2010

RCMARS - The New Robust CMARS Method. Weber, G.-W. Özmen, A., and **İ. Batmaz**. *VI Moscow International Conference on Operation Research (ORM2010)*. Moscow, Russia. 20-25 October, 2010.

2008

Robust Metamodeling of Complex Systems. Kartal, E, **Batmaz, İ.**, and B. Kuran. *Workshop on Recent Developments in Financial Mathematics and Stochastic Calculus*. METU, Ankara. April 25-26, 2008.

2007

Data Mining Approaches for Quality Improvement and an Application (in Turkish). Köksal, G., Testik, M.C., Güntürkün, F., and **İ. Batmaz**. *16. Quality Congress*. İstanbul, Turkey. November, 2007.

2003

Studying Radon Anomalies Based on Tectonic Activities in Alaşehir/Manisa Region Located at Active Gediz Graben (in Turkish). Yaprak G., Candan, O., Gür, F., **Batmaz, İ.**, and Camgöz, B. *VIII. National Congress of Nuclear Sciences and Technologies*. Erciyes University, Kayseri, Turkey. October, 2003.

Robust Estimation in Simulation Metamodeling. **Batmaz, İ.** *EURO/ INFORMS: Joint International Meeting*. İstanbul, Turkey. July, 2003.

Before 2000

A Review on Uncertain Reasoning in Expert Systems (in Turkish). **Batmaz, İ.** *Research Symposium '96*. State Statistics Institute (DİE), Ankara, Turkey. November, 1996.

Object-Oriented Software Representation for Factorial Designs. **Batmaz, İ.** *The Third AI and Statistics Workshop*. Ft. Lauderdale, FL, USA. January, 1991.

Intrahouse Variation in Deal-Proneness and Brand Choice: Probabilistic Evaluation in the Presence of Insufficient Data on Household Members. Gönül, F., and **İ. Batmaz.** *ORSA/TIMS Joint National Meeting*. Philadelphia, PA, USA. October, 1990.

RESEARCH REPORTS

Restricted

Developing Interest Predicting Models for Time Deposit Accounts Using Data Mining Techniques (in Turkish). Ayhan, Ö., **Batmaz, İ.**, Kartal-Koç, E., and C. Yazıcı. *A state bank of Turkey*, Ankara, Turkey. August-October, 2012.

The Use of Data Mining Techniques in Developing Early Warning (Surveillance) Systems for Natural Hazards. **Batmaz, İ.** *UNDP- UNEP- UNIDO- FAO Project*, Project No: MDGF-1680. April, 2011.

Statistical Evaluation of Concordance between Specifications and Performances of Instrumental Navigation Systems (in Turkish). Ayhan, H.Ö., and **İ. Batmaz.** *ASELSAN*, Ankara, Turkey. June, 2011.

Statistical Analysis of Students Evaluations for Arts and Science Faculty of METU for the First Academic Semester of 2005 (in Turkish). Ayhan, H.Ö. and **İ. Batmaz.** *METU, Art and Sciences Faculty*, July, Ankara, Turkey, 2006.

A New Method for Calculating Performance Score of High School Students (in Turkish). Günay, S., Ayhan, H.Ö., **Batmaz, İ.**, and İ. Zor. *Center of Measuring, Selection and Placement (ÖSYM)*, Ankara, Turkey, 2005.

Project Reports

Streaming C/MARS: A Streaming Conic/Multivariate Adaptive Regression Splines Algorithm. **Batmaz İ.**, and N. Adams. TÜBİTAK 2219: International Post-Doctoral Research Fellowship Programme.

Homogeneity Analysis of Meteorological Data by the Methods of Computational Statistics. METU Scientific Research Project (BAP) Fund, No: BAP-01-09-2015-001. Ankara, Turkey. 2015.

Developing Precipitation Models by Hidden Markov Models: A Case of Turkey **Batmaz, İ.**, Yozgatlıgil, C., Greenacre, M., Zucchini, W., Yaman, N. METU Scientific Research Project (BAP) Fund, No: BAP-01-09-2014-001. Ankara, Turkey. 2014.

Redefining Climate Regions of Turkey and Developing Precipitation Models Using Data Mining Techniques. METU Scientific Research Project (BAP) Fund, No: BAP-2008-01-09-02. Ankara, Turkey. 2008-2011. <http://www.stat.metu.edu.tr/research-projects/ninlil/>

Use and Development of Data Mining Techniques for Quality Improvement (in Turkish). Final Report of the TÜBİTAK Project No: 105M138. Köksal, G., **Batmaz,**

İ., Karasözen, B., Kayalığıl, S., Testik, M.C., Özdemirel, N.E., Bakır, B., and B. Öztürk. September, 2009.

Design of Experiments with Simulation Models Analyzed through Kriging. **Batmaz, İ.**, and J.P.C. Kleijnen. *Tilburg University, Netherlands*, Supported by NOW, September 2002.

Technical Reports

Streaming C/MARS: A Streaming Conic/Multivariate Adaptive Regression Splines Algorithm. **Batmaz İ.**, and N. Adams. TÜBİTAK 2219: International Post-Doctoral Research Fellowship Programme. *To be published at Imperial College, Department of Mathematics, London, UK*, 2019.

Homogeneity Analysis of Turkish Climate Data. Yazıcı, C., Purutçuoğlu, V., Yozgatlıgil, C., Bayramoğlu, K., İyigün, C., and **İ. Batmaz**, *METU-STAT-Technical Report-2012- 001* March, 2012

Bootstrapping Conic Multivariate Adaptive Regression Splines (BCMARS). **Batmaz, İ.**, Yazıcı, C., and F. Yerlikaya-Özkurt, *METU-STAT-Technical Report-2012- 002* March, 2012

Comparison of Missing Value Imputation Methods in Time Series: The Case of Turkish Meteorological Data. Yozgatlıgil, C., Aslan, S., İyigün, C., and **İ. Batmaz** *METU-STAT-Technical Report-2011- 002* October, 2011

Robust Conic Quadratic Programming–A Robustification of CMARS. Weber, G-W., **Batmaz, İ.**, and A. Özmen. *IAM, METU, Ankara, Turkey*. 2010.

The Effect of Inspection Error on Quality and Producer Losses: The Case of Nominal-the Best Type Quality Characteristic and Rework. Köksal, G., Taşeli, A., Dolgun, L.E., and **İ. Batmaz**. Technical Report No: 10-01, *Industrial Engineering Department, METU, Ankara, Turkey*. 2010.

Data Mining Processes and a Review of their Applications for Product and Process Quality Improvement in Manufacturing Industry. Köksal, G., **Batmaz, İ.**, and M.C. Testik. Technical Report No: 08-03, *Industrial Engineering Department, METU*, Supported by TÜBİTAK, 2008.

Use of Tikhonov Regularization and Multicriteria Optimization in MARS Algorithm (in Turkish). Yerlikaya, F., G.W. Weber, P. Taylan, **İ. Batmaz**, G. Köksal. Technical Report No: 105, *IAM, METU*, Supported by TÜBİTAK under Project Number: 105M138, May 2008.

Developing an Intelligent Tutoring System that Teaches Basic Probability Theory by Solving Examples (in Turkish). Baskan, O., and **İ. Batmaz**. *Department of Statistics, Ege University*, Supported by Ege University Research Fund, 1995.

PROJECTS PARTICIPATED

Director

Streaming C/MARS: A Streaming Conic/Multivariate Adaptive Regression Splines Algorithm. **Batmaz İ.**, and N. Adams. TÜBİTAK 2219: International Post-Doctoral Research Fellowship Programme.

Homogeneity Analysis of Meteorological Data by the Methods of Computational Statistics. **Batmaz İ.**, and C. Yozgatlıgil. METU Scientific Research Project (BAP) Fund, No: BAP-01-09-2015-001. Ankara, Turkey. 2015.

Developing Precipitation Models by Hidden Markov Models: A Case of Turkey **Batmaz, İ.**, Yozgatlıgil, C., Greenacre, M., Zucchini, W., Yaman, N. METU Scientific Research Project (BAP) Fund, No: BAP-01-09-2014-001. Ankara, Turkey. 20014.

Redefining Climate Regions of Turkey and Developing Precipitation Models Using Data Mining Techniques. **Batmaz İ.**, and C. Yozgatlıgil. METU Scientific Research Project (BAP) Fund, No: BAP-2008-01-09-02. Ankara, Turkey. 2008-2011.

<http://www.stat.metu.edu.tr/research-projects/ninlil/>

Co-director

Interest Predicting for Time Deposit Accounts Using Data Mining Techniques, A State Bank of Turkey, Ankara, Turkey. August-October, 2012.

Use of Data Mining in Quality Improvement. METU BAP Project Fund, No: BAP2006-07-02-06, Ankara, Turkey. 2006-2007.

Data Mining and Knowledge Discovery for Quality Improvement in Manufacturing. TÜBİTAK Project, No: 105M138. 2006-2009.

Developing an Intelligent Software for Improving Productivity and Product Quality and Standards in Manufacturing Process Using Statistics Methods. Supported by TÜBİTAK-TTGV and S.P.A.C., METU-Technopolis, 2004-2005.

Researcher

Ship Combat Effectiveness Evaluation (Gemi Muharebe Etkinlik Değerlendirme), (TÜBİTAK Destekli) ODTÜ DSİM Project No: 1007-SAVTAG-SSM-2015-02, Ankara, Turkey, May 2018 – May 2023.

Discovering of a New Gene Responsible for Limb-Girdle Muscle Dystrophy Phenotype. TUBİTAK Project No: 112S271, 2012-2015.

The Use of Data Mining Techniques in Developing Early Warning (Surveillance) Systems for Natural Hazards. UNDP- UNEP- UNIDO- FAO Project, Project No: MDGF-1680, 2010-2011.

Statistical Evaluation of Concordance between Specifications and Performances of Instrumental Navigation Systems. ASELSAN, Ankara, Turkey. February-June 2010.

A New Method for Calculating Performance Score of High School Students. Center of Measuring, Selection and Placement (ÖSYM), Ankara. 2005.

Metamodeling on Simulation through Kriging and Regression: A Comparative Research. Netherlands National Research Fund (NWO) Supported Project, Department of Information Systems (BIK)/ Center for Economic Research (CentER), School of Economics and Business Administration (FEW), Tilburg University, Tilburg, Netherlands. 2002-Summer.

Studying Radon Anomalies based on Tectonic Activities in Alaşehir/Manisa Region Located at Active Gediz Graben. EBİLTEM 2000 BİL 037. The Institute of Nuclear Sciences, Ege University, İzmir, Turkey. 2000-2004.

Studying Radon Anomalies based on Tectonic Activities in Alaşehir/Manisa Region Located at Active Gediz Graben. TÜBİTAK Project, Project No. YDABÇAĞ-100Y059. The Institute of Nuclear Sciences, Ege University, İzmir, Turkey. 2000-2003.

Developing an Intelligent Tutoring System that Teaches Basic Probability Theory by Solving Examples (in Turkish). Supported by Ege University Research Fund. Department of Statistics, Ege University, İzmir, Turkey. 1992-1995.

A Research on Computer Aided Education for Elementary School Students. TÜBİTAK Project. Computer Sciences Engineering Department, Ege University, İzmir, Turkey. 1991-1992.

Consultant

Software Development for Virtual Factory Modelling Formation by using Statistical Design of Experiments Methods. SFM Software Technologies Incorporated Company. METU Technopolis, Ankara, August 2019-February 2020.

A Research on Collecting Aerodynamic Data and their Statistical and Mathematical Modelling. SAGE. Ankara. 2016-2017.

Linear and Nonlinear Regression Modeling of Fluoride Discharge from Various Dental Restorative Materials. Metallurgy and Materials Engineering, Yıldız Technical University, İstanbul, Turkey; and Faculty of Dentistry, Marmara University, İstanbul, Turkey. 2008-ongoing.

Comparing the Strength of Shearing Bonding of Different Dentin Adhesion Systems in Primary and Permanent Teeth and Examining Resin-Dentin Bonded Interfaces Using Scanning Electron Microscope (SEM) and Transmission Electron Microscope (tem). PhD Thesis, Ankara University, Faculty of Dentistry, Ankara, Turkey, 2007.

The Role of Bleeding Criteria for Evaluating the Status of Exposed Dental Pulp. Ankara University, Faculty of Dentistry, Ankara, Turkey, 2007.

A Research on Statistical Modeling of Change in Fluoride Discharge and Recharge Amounts over Time as a Result of Different Treatments on Various Restorative Materials. PhD Thesis, Ankara University, Faculty of Dentistry, Ankara, Turkey, 2003.

Research Assistant

A Research on the Infant Mortality in Sweden in the 19. Century by Utilizing Church Records. Supported by NSF, History Department, CMU, Pittsburgh, PA, USA. 1991.

Effects of Household Members' Preferences on the Brand Choice of Ketchup Consumption. Graduate School of Industrial Administration, Marketing Department, CMU, Pittsburgh, PA, USA. 1989-1990.

Factors Affecting the Quality of Fiberglass Production. Supported by PPG Company. Department of Statistics, CMU, Pittsburgh, PA, USA. 1989.

A Research on Determining Factors Affecting Performance of Students Attending Science Faculty of Ege University. Ege University, Department of Statistics, İzmir, Turkey. 1987-1988.

THESES SUPERVISED

MSc Theses

- Şekerci, E., Evaluation of Explainability Techniques for a Cache-Augmented Large Language Model. **Sole Advisor: Prof. Dr. İ. Batmaz.** Continuing.
- Tunç, E., Analysis and Future Projections of Seasonal Shifts in Türkiye. Principal Advisor: Prof. Dr. C. Yogathıl. **Co-Advisor: Prof. Dr. İ. Batmaz.** Continuing.
- Dalkılıç Açıkgöz, B., Unveiling Economic Patterns in Türkiye: Crisis and Policy Regimes Through TICC Analysis. **Sole Advisor: Prof. Dr. İ. Batmaz.** 2024.
- Altınok, G., Learning to Rank Web Data by Multivariate Adaptive Regression Splines. **Principal Advisor: Prof. Dr. İ. Batmaz.** Co-Advisor: Assist. Prof. Dr. Pınar Karagöz. 2018.
- Kurt, C., Comparison of Computational Inpainting Methods. **Principal Advisor: Prof. Dr. İ. Batmaz.** Co-Advisor: Prof. Dr. İlkey Ulusoy. 2018.
- Kapucu, T., The Effect of Computer Assisted Instruction on Eight Grade Students' Permutation-Combination-Probability Achievement and Attitudes Towards Computer Assisted Learning. Department of Statistics, METU, Ankara, Turkey. **Principal Advisor: Prof. Dr. İ. Batmaz.** Co-Advisor: Assoc. Prof. Dr. Özlem İlk Dağ. 2016.
- Sivrikaya, N., Modeling Precipitation Series of Turkey with Hidden Markov Models (HMMs). Department of Statistics, METU, Ankara, Turkey. **Principal Advisor: Prof. Dr. İ. Batmaz.** Co-Advisor: Assist. Prof. Ceylan Talu-Yozgatlıgil. 2015 (Supported by METU BAP)
- Yeter-Kurşun, A., Ensemble Clustering of Turkish Meteorological Data. IAM, METU, Ankara, Turkey. **Principal Advisor: Prof. Dr. İ. Batmaz.** Co-Advisor: Assist. Prof. Cem İyigün. 2014. (Supported by METU BAP)
- Yazıcı, C., A Computational Approach to Nonparametric Regression: Bootstrapping CMARS Method. Department of Statistics, METU, Ankara, Turkey. **Sole Advisor: Assoc. Prof. Dr. İ. Batmaz.** 2011.
- Özmen, A., Robust Conic Quadratic Programming Applied to Quality Improvement- A Robustification of CMARS. IAM, METU, Ankara, Turkey. Principal Advisor: Prof. Dr. G.-W. Weber. **Co-Advisor: Assoc. Prof. Dr. İ. Batmaz.** 2010. (METU Best MSc Thesis Award)
- Özer, G., Fuzzy Classification Models Based on Tanaka's Fuzzy Linear Regression Approach and Nonparametric Improved Fuzzy Classifier Functions. Department of Industrial Engineering, METU, Ankara, Turkey. Principal Advisor: Prof. Dr. G. Köksal. **Co-Advisor: Assoc. Prof. Dr. İ. Batmaz.** 2009. (Supported by TÜBİTAK)
- Yerlikaya, F., A New Contribution to Nonlinear Robust Regression and Classification with MARS and its Application to Data Mining for Quality Control in Manufacturing. IAM, METU, Ankara, Turkey. Principal Advisor: Prof. Dr. G.-W. Weber. **Co-Advisor: Assoc. Prof. Dr. İ. Batmaz.** 2008. (METU Best MSc Thesis Award) (Supported by TÜBİTAK)
- Kartal, E., Metamodeling Complex Systems Using Linear and Nonlinear Regression Methods. Department of Statistics, METU, Ankara, Turkey. **Principal Advisor: Assoc. Prof. Dr. İ. Batmaz.** Co-Advisor: B. Kuran. 2007.
- Güntürkün, F., A Comprehensive Review of Data Mining Applications in Quality Improvement and a Case Study. Department of Statistics, METU, Ankara, Turkey. **Principal Advisor: Assoc. Prof. Dr. İ. Batmaz.** Co-Advisor: Prof. Dr. G. Köksal. 2007. (Supported by TÜBİTAK)
- Ögünç, F., Estimating the Equilibrium Real Exchange Rate and the Real Interest Rate Using an Unobserved Components Model. Department of Statistics, METU, Ankara,

- Turkey. **Principal Advisor: Assoc. Prof. Dr. İ. Batmaz.** Co-Advisor: Prof. Dr. H. Körezlioğlu. 2006.
- Bakır, B., Defect Cause Modeling with Decision Tree and Regression Analysis: A Case Study in Casting Industry. Informatics Institute, METU, Ankara, Turkey. Principal Advisor: Prof. Dr. N. Baykal. **Co-Advisor: Assoc. Prof. Dr. İ. Batmaz.** 2006. (Supported by TÜBİTAK)
 - Tanıl, H., An Automatic Input Data Analyzer for Simulation (in Turkish). Department of Statistics, Ege University, İzmir, Turkey. **Sole Advisor: Assist. Prof. Dr. İ. Batmaz.** 2000. (Supported by Ege University Research Fund)
 - Balsarı, M., A Research on Developing an Expert System for Diagnosing Blue-Green Algae Specie (in Turkish). Department of Statistics, Ege University, İzmir, Turkey. **Sole Advisor: Assist. Prof. Dr. İ. Batmaz.** 1995. (Supported by Ege University Research Fund)

PhD Theses

- Yazıcı, C., A Computational Approach to Detect Inhomogeneities in Time Series Data. Department of Statistics, METU, Ankara, Turkey. **Principal Advisor: Doç. Dr. C. Yozgatlıgil.** **Co-Advisor: Prof. Dr. İ. Batmaz.** Department of Statistics, METU, Ankara, Turkey. 2017.
- Aker, Ö., A Research on Discovering of a New Gene Responsible for Limb-Girdle Muscle Dystrophy Phenotype. Principal Advisor: Prof. Dr. Pervin Dinçer. **Co-Advisor: Assoc. Prof. Dr. İ. Batmaz.** Hacettepe University, Department of Medical Biology, Ankara, Turkey. 2011-2015. (Supported by TÜBİTAK)
- Bozağaç, C.D., Metamodeling Atomic Models in Discrete-Event System Specification (DEVS) Formalism Using Multivariate Adaptive Regression Splines (MARS). Principal Advisor: Assoc. Prof. Dr. M. Halit Oğuztüzün. **Co-Advisor: Prof. Dr. İ. Batmaz.** Computer Science Department, METU, Ankara, Turkey. 2014.
- Fahmi, F., Estimation of Response Errors in Complex Sample Survey. Principal Advisor: Prof. Dr. H. Öztaş Ayhan. **Co-Advisor: Prof. Dr. İ. Batmaz.** Department of Statistics, METU, Ankara, Turkey. 2013.
- Kartal-Koç, E., Reconstructing the Forward Stepwise Algorithm of Additive Regression Splines. **Principal Advisor: Assoc. Prof. Dr. İ. Batmaz.** Co-Advisor: Assist. Prof. Dr. Cem İyigün. Department of Statistics, METU, Ankara, Turkey. 2012.
- Erkan, İ., Multilevel Models for Time Series Gene Expression Data. Principal Advisor: Dr. Özlem İlk. **Co-Advisor: Assoc. Prof. Dr. İ. Batmaz.** Department of Statistics, METU, Ankara, Turkey. 2011. (Supported by TÜBİTAK)

TEACHING INTERESTS

- Data Science and Analytics
- Data Mining
- Computational Statistics
- Machine Learning
- Statistical Computing (Using R, MATLAB, SPSS, SAS, MINITAB, SQL)
- Programming Languages (Python, C, C++, PASCAL, BASIC, FORTRAN)
- Data Structures
- Data Processing
- Exploratory Data Analysis
- Modeling and Simulation
- Response Surface Methodology (Linear Modelling, DOE, Optimization)
- Regression Analysis
- Design of Experiments (DOE)
- Statistical Quality Control
- Probability and Statistics

- Applied Statistics

RESEARCH INTERESTS

- Data Science and Analytics
- Big/Stream Data Mining
- Computational Statistics
- Machine Learning
- Statistical Computing
- Early Warning System Development
- Response Surface Methodology, Metamodeling
- Design of Experiments (DOE)
- Statistical Modeling
- Quality Improvement
- Environmental Statistics
- System Simulation
- Statistical Software Development

SEMINARS

Continuing Education Seminars on

- Basic Statistical Methods, TEİ, TUSAS, Eskişehir, February 19-21, 2013.
- Applications of Statistical Analysis in Medical Researches Using SPSS Package Program, ATO, Ankara Chamber of Medical Doctors, April-June 2011.
- Regression Modeling, Statistical Design of Experiments and Multivariate Adaptive Regression Splines (MARS), TÜBİTAK-SAGE, July 2008, 2014.
- Applied Statistical Methods, July 2006.
- Quality Management Certificate Program, May and July 2005; April 2008-June 2008; November 2008 - March 2009).

OTHER PROFESSIONAL ACTIVITIES

Committee/Jury Membership

- **Fulbright Scholarship in Statistics Selection Committee**, Turkish Fulbright Commission, Ankara, Turkey.
- **PhD Qualification Exam Jury**, Department of Statistics, Hacettepe University, Ankara, Turkey.
- **MSc and PhD Thesis Jury**, Department of Statistics, Industrial Engineering Department, Institute of Applied Mathematics (IAM), Informatics Institute and GGIT, METU, Ankara, Turkey.
Department of Statistics, Ankara University, Ankara, Turkey.
- **PhD Thesis Following Committee**, Department of Statistics, Industrial Engineering Department, Institute of Applied Mathematics, Informatics Institute, GGIT, METU, Ankara, Turkey.
- **Expertise Thesis Jury**, Turkish Statistics Foundation (TÜİK). Ankara, Turkey.

Professional Memberships

- ERCIM WG, Computational and Methodological Statistics, SAS, GMS, and GCS, 2014-ongoing.
- IASC-International Association for Statistical Computing, ISI-International Statistics Institute, 2012-ongoing.
- EUROPT WG, Continuous Optimization Working Group of EURO, 2007 ongoing.

- Altı Sigma Forum (Six Sigma Form-in Turkish), Member of the Editorial Board, 2003-2015.

Non-Academic

- **Scholarship Committee Member**, METU, Ankara, Turkey, 2008-2015.

REFREEING (Selected)

Journal Papers

- Advances in Fuzzy Systems
- Annals of OR
- CMPB: Computer Methods and Programs in Biomedicine
- Central European Journal of Operations Research
- Communications in Statistics – Simulation and Communication
- Computational Intelligence, An International Journal
- Computational and Mathematical Methods in Medicine
- COST: Computational Statistics
- EEST: Environmental and Ecological Statistics
- Financial Innovation
- International Journal of Advanced Manufacturing Technology
- Journal of Applied Statistics
- Journal of Computational and Applied Mathematics
- Journal of the Operations Research Society of China
- Journal of Statistical Research (in Turkish and English)
- Journal of Statistical Software
- Machine Learning
- Optimization
- Quality Technology
- Simulation: Transactions of the Society for Modeling and Simulation International
- Transaction of Fuzzy Systems
- Turkish Journal of Electrical Engineering and Computer Sciences
- Turkish Journal of Mathematics

Book Chapters

- Springer

Conference Abstracts

- USMOS 2019: 8. Ulusal Savunma Uygulamaları Modelleme ve Simülasyon Konferansı, METU, Ankara, Turkey.
- USMOS 2017: 7. Ulusal Savunma Uygulamaları Modelleme ve Simülasyon Konferansı, METU, Ankara, Turkey.
- 11. International Statistics Days, Bodrum, Turkey, October 3-7, 2018.
- IC-SMHD-2016 - International Conference on Information Complexity and Statistical Modeling in High Dimensions with Applications, Nevşehir, Cappadocia, Turkey, May 18-21, 2016.
- YAEM: 35th National Congress of Operations Research and Industrial Engineering (in Turkish), İzmir, Turkey, 2016.
- YAEM: 35th National Congress of Operations Research and Industrial Engineering (in Turkish), Ankara, Turkey, 2015.
- 7. Statistics Days Symposium (in Turkish), 2010

Research Projects

- TÜBİTAK
- METU, BAP Projects

TÜBİTAK Panel/External Evaluator

- Supports for National Scientific Activities
- Research Projects of Bachelor Students

Special Awards

- Serhat Özyar Yong Scientist of the Year Award, Association for Faculty Members of METU, Turkish Chamber of Electrical Engineers (TMMOB), and Science and Utopia Cooperative, 2008.

METU Technopolis

- Projects
- Firms

HOBIES

Reading, walking, practicing Yoga, spending time with my four-leg son, Ateş, and travelling around.