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PERSONAL

Date of Birth	July 5, 1986
Place of Birth	Ankara, Turkey

EDUCATION

2012-2018	Middle East Technical University, Institute of Applied Mathematics, Financial Mathematics, Ph.D.
2009-2012	Middle East Technical University, Institute of Applied Mathematics, Financial Mathematics, M.S.
2007-2010	Cankaya University, Faculty of Economics and Administrative Science, Department of International Trade, B.S.
2005-2009	Cankaya University, Faculty of Economics and Administrative Science, Department of Management, B.S.
1997-2004	TED Ankara College

ACADEMIC POSITIONS

06/2022 -	Assistant Professor, Department of Industrial Engineering Atilim University, Turkey
12/2019 – 06/2022	Assistant Professor, Department of Mathematics Atilim University, Turkey
02/2015 - 09/2019	Instructor, Department of Statistics Ankara University, Turkey

HONORS&AWARDS

1	TUBITAK - 2211 National Graduate Scholarship Programme
2	TUBITAK - 2210 National Scholarship Programme for MSc Students

RESEARCH INTERESTS

1	Data Science
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GRANTS

1	TUBITAK 3501- Approximation of the Buffer Overflow Probabilities of Markov Modulated Parallel Queues and their Applications, Grant no. 122F043, Researcher, May 2022–November 2023.
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PUBLICATIONS

11	Unlu, K. D. “A Data-Driven Model to Forecast Multi-Step Ahead Time Series of Turkish Daily Electricity Load.” <i>Electronics</i> , 11:10, 154, 2022. doi:10.3390/electronics11101524
10	Akdi, Y., Karamanoglu, Y.E., Unlu, K. D. , Bas, C. “Identifying the cycles in COVID-19 infection: the case of Turkey.” <i>Journal of Applied Statistics</i> , 2022. doi:10.1080/02664763.2022.2028744
9	Akbal, Y., Unlu, K. D. , “A deep learning approach to model daily particular matter of Ankara: key features and forecasting.” <i>Int. J. Environ. Sci. Technol</i> , 19, 5911–5927, 2022. doi:10.1007/s13762-021-03730-3
8	Basoglu Kabran, F., Unlu, K. D. “A two-step machine learning approach to predict S&P 500 bubbles.” <i>Journal of Applied Statistics</i> , 48:13-15, 2231–2238, 2021. doi:10.1080/02664763.2020.1823947
7	Unlu, K. D. “Predicting credit card customer churn using support vector machine based on Bayesian optimization.” <i>Commun. Fac. Sci. Univ. Ank. Ser. A1 Math. Stat.</i> , 70 (2), 827–836, 2021. doi:10.31801/cfsuasmas.899206
6	Akdi, Y., Golveren, E., Unlu, K. D. , Yucel, M.E. “Modeling and forecasting of monthly PM2.5 emission of Paris by periodogram-based time series methodology.” <i>Environ Monit Assess</i> 193, 622, 2021. doi:10.1007/s10661-021-09399-y
5	Akdi, Y. , Karamanoglu, Y. E. , Unlu, K. D. , Bas, C. “Investigating the periodic structure of traffic accidents in Turkey”. <i>Güvenlik Bilimleri Dergisi</i> , 10:2 , 447–466, 2021. doi:10.28956/gbd.1028677
4	Akdi, Y., Unlu, K. D. “Periodicity in precipitation and temperature for monthly data of Turkey.” <i>Theor Appl Climatol</i> , 143, 957—968, 2021. doi:10.1007/s00704-020-03459-y
3	Okkaoglu, Y., Akdi, Y., Unlu, K. D. “Daily PM10, periodicity and harmonic regression model: The case of London.” <i>Atmos Environ</i> , 238, 117755, 2020. doi:10.1016/j.atmosenv.2020.117755
2	Unlu, K. D. , Sezer, A. D. “Excessive Backlog Probabilities of Two Parallel Queues.” <i>Ann Oper Res</i> , 293, 141–174, 2020. doi:10.1007/s10479-019-03324-w
1	Unlu, K. D. , Kestel, A. S. “Analyses on the Causality in Carbon Emission with respect to Economic Growth and Education.” <i>Gazi Journal of Science</i> , 30(3): 161–179, 2017.

CONFERENCE PRESENTATIONS

11	Unlu, K. D. "Forecasting the daily electricity load produced from wind energy of Turkey via stacked long short-term memory model with peephole connections." International Joint Conference on Engineering, Science and Artificial Intelligence (IJCESAI'22), June 15–17, 2022.
10	Unlu, K. D. "Time series forecasting of foreign exchange rates: A comparison between neural networks and Box-Jenkins Methodology." International Conference on Engineering Natural and Applied Science (ICENAS'21), Osmaniye, November 24–26, 2021.
9	Karaca, B., Unlu, K. D. "Analysis of bitcoin returns by machine learning algorithms: Comparison and Forecasting." International Conference on Interdisciplinary Applications of Artificial Intelligence (ICIDAAI), Yalova, May, 2021.
8	Basoglu Kabran, F., Unlu, K. D. "Predicting Bubbles in the S&P 500 Index with Macroeconomic Indicators: A Machine Learning Approach." 11th International Statistics Congress, Antalya, Turkey, October 2019.
7	Unlu, K. D., Sezer, A. D. "Approximation of Excessive Backlog Probabilities of Two Parallel Queues." The 13th International Conference on Queueing Theory and Network Applications, Tsukuba, Japan, July 2018.
6	Sezer, A. D., Unlu, K. D. "Overflow analysis of multiple stacks running on the same memory." The 22nd International Conference on Computational Statistics, Oviedo, Spain, August 2016.
5	Sezer, A. D., Unlu, K. D. "Overflow analysis of multiple stacks running on the same memory." European Conference on Queueing Theory, Toulouse, France, July 2016.
4	Sezer, A. D., Unlu, K. D. "Aynı Bellekte Çalışan Birden Fazla Yığından Oluşan Sistemin Taşma Analizi." Yöneylem Araştırması ve Endüstri Mühendisliği 36.Ulusal Kongresi, İzmir, Turkey, July 2016.
3	Unlu, K. D., Sezer, A. D. "Temperature in Turkey and Turkish Day Ahead Electricity Market." 9th International Statistics Congress, Antalya, Turkey, September 2015.
2	Unlu, K. D., Kestel, A. S. "Linkage Between Education, Economic Growth and CO2 Emission: A Multivariate Analysis on Turkey." 8th International Statistics Congress, Antalya, Turkey, September 2013.
1	Ozdemir, A., Unlu, K. D., Kestel, A. S., Yildirak, S. K. "Turkish Electricity Price Behavior Based on Some Economic Indicators: An Econometric Approach." 8th International Statistics Congress, Antalya, Turkey, September 2013.

BOOK CHAPTERS

4	Unlu, K. D., Potas N., Yılmaz M. "Forecasting Direction of BIST 100 Index: An Integrated Machine Learning Approach." In: Er, cetin S., S., A, cıkalın S., N., Vajzovic' E. (eds) Chaos, Complexity and Leadership 2020. Springer Proceedings in Complexity. Springer, Cham, 2021. doi:10.1007/978-3-030-74057-3 5
3	Unlu, K. D., Potas N., Yılmaz M. "Relationships Between Stock Markets: Causality Between G8 Countries and Turkey." In: Er, cetin S., Acıkalın S. (eds) Chaos, Complexity and Leadership 2018. ICCLS 2018. Springer Proceedings in Complexity. Springer, Cham, 2020. doi:10.1007/978-3-030-27672-0 5
2	Unlu, K. D., Potas N., Yılmaz M. "Interrelation between Economic Growth, Financial Development, Trade, Energy Consumption, and Environmental Degradation: A Multivariate Time Series Analysis on Turkey." In: Er, cetin S., Ray N., Sen S., (eds) Economic Growth and Demographic Transition in Third World Nations, Apple Academic Press, June 2019.
1	Unlu, K. D., Potas N., Yılmaz M. "Revisiting the Environmental Kuznets Curve Hypothesis for Turkey." In: Er, cetin S., Potas N. (eds) Chaos, Complexity and Leadership 2017. ICCLS 2017. Springer Proceedings in Complexity. Springer, Cham, 2019. doi:10.1007/978-3-319-89875-9 13

CITATIONS

Sum of times cited without self-citations (ISI Web of Science):	21
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