



ANTALYA BİLİM
UNIVERSITY

Prof. Dr. Mehmet AKTAN
Vice Rector

+90 242 245 02 40

+90 242 245 00 45

Çıplaklı Mah. Akdeniz Bulvarı
No:290 Döşemealtı / Antalya

mehmet.aktan@antalya.edu.tr
antalya.edu.tr

Educational Background

PhD 2003	The University of Wisconsin Madison Graduate College / Industrial Engineering Thesis Title: Real Options Valuation of Flexibility in Manufacturing and Quality (2002) Advisor: Harriet Black Nembhard
MS 1997	The University of Iowa Graduate College / Industrial Engineering Thesis Title: Dependency Analysis in Constraint-Based Design (1997) Advisor: Andrew Kusiak
BS 1995	Boğaziçi University College of Engineering / Department of Industrial Engineering

Academic Activities

Professor 2015	Necmettin Erbakan University / Department of Industrial Engineering
Associate Professor 2013-2015	Necmettin Erbakan University / Department of Industrial Engineering
Associate Professor 2010-2013	Atatürk University / Department of Industrial Engineering
Assistant Professor 2004-2010	Atatürk University / Department of Industrial Engineering
Research Assistant 1995-2004	Atatürk University / Department of Industrial Engineering
Research Assistant 2001-2003	University of Wisconsin-Madison / Department of Industrial Engineering

Projects

International:

1. Real Option Models for Quantifying Manufacturing Flexibility, University of Wisconsin Madison Graduate School Research Grant 10230, Research Assistant, 1999-2004
2. An Evaluation Approach for Flexibility in Manufacturing Enterprises, NSF National Science Foundation, Researcher, 2001-2004

National:

1. Investigation of the Facility Layout Problem of an Elevator Production Plant Using Deterministic and Heuristic Methods, (BAP), Coordinator, 2016
2. Evaluation of Public Transportation Vehicles in Konya with Universal Design Principles, (BAP), Coordinator, 2017-2018
3. Determination of Horizontal and Vertical Distributions of PCB Concentrations Using Active and Passive Samplers in Urban Atmosphere, TÜBİTAK PROJECT, Researcher, 2013 - 2015
4. Development of a Demand Forecast Model for Necmettin Erbakan University Köyceğiz Campus Dining Hall, (BAP), Coordinator, 2016

Administrative Experience

Vice Rector 2024	Antalya Bilim University
Department Head 2013 - 2024	Necmettin Erbakan University / Department of Industrial Engineering
Vice Dean 2013 - 2014	Necmettin Erbakan University / Faculty of Engineering and Architecture
Department Head 2013	Atatürk University / Department of Industrial Engineering
Vice Dean 2008 - 2012	Atatürk University / Faculty of Communication

Journal Papers

1. Koç Bilgen Ayan, AKTAN MEHMET (2019). The Solution of Nurse Scheduling Problem with Simulated Annealing Algorithm. *Journal of Scientific and Engineering Research*, 6(4), 153-160.
2. Paluloğlu Cihan, BAYRAKTAR HANEFİ, AKTAN MEHMET, TURALIOĞLU FATMA SEZER, GAGA EFTADE EMİNE (2016). Atmospheric concentrations of polycyclic aromatic hydrocarbons PAHs in an urban traffic site in Erzurum Turkey. *Stochastic Environmental Research and Risk Assessment*, 30(4), 1223-1234., Doi: 10.1007/s00477-015-1110-9
3. SEVİM FATİH, küçükarslan Hilal, DEMİR FATİH, EROĞLU HAYRETTİN, AKTAN MEHMET (2014). Dehydration Kinetics of Tincalconite from Thermogravimetric Data. *JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN*, 36(5)
4. BARLI ÖNDER, AKTAN MEHMET, BİLGİLİ BİLSEN, DANE ŞENOL (2012). Lighting Indoor Color Buying Behavior and Time Spent in a Store. *COLOR RESEARCH AND APPLICATION*, 37(6), 465-468
5. EROĞLU HAYRETTİN, AKTAN MEHMET, AKKAYA GÖKAY (2011). ANN Modeling and Analysis of Radioactive Gallium 67 Adsorption from Aqueous Solution with Waste Acorns of *Quercus lthaburensis* Journal Of Chemical And Engineering Data. *JOURNAL OF CHEMICAL AND ENGINEERING DATA*, 56(5), 1910-1917.
6. AKTAN MEHMET, BAYRAKTAR HANEFİ (2010). The Neural Network Modeling of Suspended Particulate Matter with Autoregressive Structure. *EKOLOJİ*, 19(74), 32-37.
7. HASAR UĞUR CEM, AKKAYA GÖKAY, AKTAN MEHMET, GÖZÜ CÜNEYT, AYDIN ABDULKADİR CÜNEYT (2009). Water to Cement Ratio Prediction Using ANNs from Non destructive and Contactless Microwave Measurements. *Progress in Electromagnetics Research-PIER*, 94, 311-325.
8. AKTAN MEHMET (2008). Artificial neural network modeling of winter season sulphur dioxide concentrations in Erzurum city. *FRESENIUS ENVIRONMENTAL BULLETIN*, 17(2), 218-223.
9. Aktan Fuat, Schnell Thomas, AKTAN MEHMET (2006). Development of a Model to Calculate Roadway Luminance Induced by Roadway Lighting. *Transportation Research Record*, 1973, 130-141.
10. Nembhard Harriet Black, Shi Leyuan, AKTAN MEHMET (2005). A Real Options Based Analysis for Supply Chain Decisions. *IIE TRANSACTIONS*, 37(10), 945-956.
11. Nembhard Harriet Black, Shi Leyuan, AKTAN MEHMET (2003). A Real Options Design for Product Outsourcing. *ENGINEERING ECONOMIST*, 48(3), 199-217.
12. Harriet Black Nembhard, Leyuan Shi, AKTAN MEHMET (2002). A Real Options Design for Quality Control Charts. *ENGINEERING ECONOMIST*, 47(1), 28-59. (Yayın No: 481886)

Conference Papers

1. AKTAN MEHMET,ÖZER SÜLEYMAN,ERYÜRÜK ŞULE (2019). Effects of Government Policies on Automobile Ownership and Analysis By Evolutionary Game Theory. 5th International Conferences on Engineering Sciences, 119-119. (Abstract)
2. BOTSALI AHMET REHA,AKTAN MEHMET (2018). Course Scheduling Problem for The College of Engineering and Architecture at Necmettin Erbakan University. (ICAT18) 7th International Conference on Advanced Technologies. (Abstract)
3. AKTAN MEHMET (2018). Statistical Determination of Hot-Mix Asphalt Content by Experiments. 7th International Conference on Advanced Technologies (ICAT'xx18), 941-943.
4. AKTAN MEHMET,BOTSALI AHMET REHA (2018). Impact of Temperature Changes on The Amount of Precipitation in Konya. (ICAT18) 7th International Conference on Advanced Technologies. (Abstract)
5. Acar Burcu,AKTAN MEHMET (2018). Bir Elektrik Dağıtım Şirketi için Eğitim Takip Faaliyetlerinde İyileştirme Süreçleri. 2nd European Conference on Science, Art Culture (ECSAC 2018)
6. AKTAN MEHMET (2018). Statistical Modeling and Investigation of Compressive Strength of Silica Fume Concrete. 2nd European Conference on Science, Art Culture (ECSAC 2018)
7. BOTSALI AHMET REHA,AKTAN MEHMET (2017). Supplier Selection Problem During Online Shopping. ICONTES 2017 International Conference on Technology, Engineering, and Science. (Abstract)
8. AKTAN MEHMET,BOTSALI AHMET REHA (2017). Estimation of Winter Season Sulphur Dioxide Concentrations with an Artificial Neural Network Model. ICONTES 2017 International Conference on Technology, Engineering, and Science. (Abstract)
9. ULUSOY TUBA,YAŞAR ESRA,AKTAN MEHMET (2017). Technological Unemployment and Industry 4.0: A discussion. International Symposium on Industry 4.0 and Applications (ISIA 2017), Karabük, Türkiye
10. YAŞAR ESRA,ULUSOY TUBA,AKTAN MEHMET (2017). Adoption of Industry 4.0: A Case of Manufacturing Firms in Turkey. International Symposium on Industry 4.0 and Applications (ISIA 2017), Karabük, Türkiye
11. ULUSOY TUBA,ATEŞ FATMA,AKTAN MEHMET (2017). Demand Forecasting Methods in a University Campus Dining Hall. 3rd International Researchers, Statisticians and Young Statisticians Congress (IRSYSC 2017), Konya, Türkiye. (Abstract)
12. YAPICI BÜŞRA,AKTAN MEHMET (2017). Time Series and Artificial Neural Network Forecasting of the Electricity Demand for a Private Electricity Distribution Company. 3rd International Researchers, Statisticians and Young Statisticians Congress (IRSYSC-2017), 1, 186-186. (Abstract)
13. BOTSALI AHMET REHA,AKTAN MEHMET (2017). Analysis of an Online Shopping Problem. IRSYSC 2017 – 3rd International Researchers, Statisticians and Young Statisticians Congress. (Abstract)
14. AKTAN MEHMET,ALAYKIRAN KEMAL (2017). Optimization and Valuation of Expansion Flexibility in Manufacturing Industry. International Conference on Engineering Technology and Innovation, 1, 106-106. (Abstract)
15. AKTAN MEHMET,ALAYKIRAN KEMAL (2017). Constraint-Based Design and Dependency Analysis. International Conference on Engineering Technology and Innovation, 1, 105-105. (Abstract)
16. ALAYKIRAN KEMAL,AKTAN MEHMET,HACIBEYOĞLU MEHMET (2017). Matheuristics as a New Problem Solving Tool. International Conference on Engineering Technology and Innovation. (Abstract)
17. ALAYKIRAN KEMAL,AKTAN MEHMET,HACIBEYOĞLU MEHMET (2017). New Research Perspectives in Reverse Logistics. International Conference on Engineering Technology and Innovation. (Abstract)
18. ULUSOY TUBA,AKTAN MEHMET (2016). Application of Ant Colony Optimization in Solving Facility Layout Problem of an Elevator. OR 2016 International Conference on Operations Research. (Abstract)
19. ULUSOY TUBA,AKTAN MEHMET (2016). Asansör Otomatik Kapısı Üreten Bir İşletmenin Tesis Yerleşim Probleminin Çözümü. 17th International Symposium on Econometrics, Operations Research and Statistics. (Abstract)

20. AKTAN MEHMET (2016). A Case Study for Decision Making and Valuation of Contract Flexibility in Manufacturing Industry. ICENS International Conference on Engineering and Natural Science, 6, 1419-1421.
21. BOTSALI AHMET REHA,AKTAN MEHMET (2016). Minimization of Network Construction Cost for a Given Failure Probability. ICENS International Conference on Engineering and Natural Science, 4, 779-785.
22. AKTAN MEHMET,Nembhard Harriet Black (2016). Valuation of Project Abandonment Flexibility with Real Options. 3rd International Conference on Modern Research's in Management, Economics & Accounting.
23. BOTSALI AHMET REHA,AKTAN MEHMET (2016). Network Construction with respect to Cost and Reliability Factors. 3rd International Conference on Modern Research's in Management, Economics & Accounting.
24. BARLI ÖNDER,AKTAN MEHMET,BİLGİLİ BİLSEN,DANE ŞENOL (2016). Relation between Indoor Color and Lighting in a Store and Purchasing Behavior. 3rd International Conference on Modern Research's in Management, Economics & Accounting.
25. AKTAN MEHMET (2015). Forecasting Wheat Production by Artificial Neural Networks and Linear Regression Models. OR 2015 International Conference on Operations Research. (Abstract)
26. Gözü Cüneyt, Falbe Cecilia M, Aktan Mehmet (2009). Implementations of Social Entrepreneurship A Comparative Approach in Developing Countries. 1st International Symposium on Sustainable Development, 1, 360-363.
27. Gözü Cüneyt, Hasar Uğur Cem, Aktan Mehmet, Akkaya Gökay (2009). On The Way of Sustainable Development The Role of Higher Educational Institutions. 1st International Symposium on Sustainable Development, 2, 46-48.
28. Uzunlar Evcan, Aktan Mehmet (2008). History of Turkish Banking after Republic. 12th World Congress of Accounting Historians.
29. Uzunlar Evcan, Aktan Mehmet (2008). History of Turkish Banking before Republic. 12th World Congress of Accounting Historians.
30. Aktan Fuat, Schnell Thomas, Aktan Mehmet (2006). Development of a Model to Calculate Roadway Luminance Induced by Fixed Roadway Lighting. Transportation Research Board, 85th Annual Meeting.
31. Harriet Black Nembhard,Leyuan Shi,AKTAN MEHMET (2003). The Effect of Implementation Time Lag on Real Options Valuation. INFORMS Annual Meeting, 74-74. (Abstract)
32. Aktan Mehmet, Nembhard Harriet Black, Shi Leyuan (2003). A Monte Carlo Simulation Approach for Valuing Real Options with Switching Costs. EURO/INFORMS Joint International Meeting, 161-161. (Abstract)
33. AKTAN MEHMET,Harriet Black Nembhard,Shi Leyuan (2003). Valuing Global Supply Chain Flexibility under Currency Exchange Rate Volatility. INFORMS Chicago Chapter Conference: Managing Risk in an Uncertain World, 6-6. (Abstract)
34. Nembhard Harriet Black, Shi Leyuan, Aktan Mehmet (2002). Effect of Implementation Time on Real Options Valuation. 2002 Winter Simulation Conference.
35. Nembhard Harriet Black, Shi Leyuan, Aktan Mehmet (2002). Valuing Operational Flexibility in Manufacturing Systems Using Real Options. 2002 Annual Industrial Engineering Research Conference.
36. AKTAN MEHMET,Harriet Black Nembhard,Leyuan Shi (2001). A Real Options Design for Product Outsourcing. 2001 Winter Simulation Conference.
37. Nembhard Harriet Black, Shi Leyuan, Aktan Mehmet (2000). A Real Options Design for Quality Control Charts. 2000 Winter Simulation Conference.

Books

1. Real Options in Engineering Design Operations and Management (2009)., Nembhard Harriet Black,AKTAN MEHMET, CRC Press, Taylor & Francis Group, Editors:Harriet Black Nembhard, Mehmet Aktan, 253 pages, ISBN:9781420071696
2. Finansal Opsiyonlar Gerçek Opsiyonlar ve Uygulamaları (2005)., UZUNLAR EVCAN,AKTAN MEHMET, Gazi Kitabevi, 85 pages, ISBN:975-8895-91-5, (In Turkish)

Book Chapters

1. Research Anthology on Cross-Industry Challenges of Industry 4.0, Chapter Title: Impact of Industry 4.0 Revolution on Science, Technology, and Society (STS): Challenges and Opportunities in the Industry 4.0 Era, (2021), ULUSOY TUBA, BOZ ESRA, AKTAN MEHMET, IGI Global, ISBN:9781799885481
2. Critical Issues Impacting Science, Technology, Society (STS), and Our Future, Chapter Title: Impact of Industry 4.0 Revolution on Science, Technology and Society (STS), (2019), ULUSOY TUBA, YAŞAR ESRA, AKTAN MEHMET, IGI Global, Editor: Heather Christina Lum, ISBN:9781522579496
3. Real Options in Engineering Design Operations and Management, Chapter Title: Origins of Real Options in Engineering, (2010), Nembhard Harriet Black, AKTAN MEHMET, Taylor & Francis, Editors: Harriet Black Nembhard, Mehmet Aktan.
4. Real Options in Engineering Design Operations and Management, Chapter Title: Real Options in Manufacturing Operations, (2010), Nembhard Harriet Black, AKTAN MEHMET, Leyuan Shi, Taylor & Francis, Editors: Harriet Black Nembhard, Mehmet Aktan.
5. Real Options in Engineering Design Operations and Management, Chapter Title: Real Options Valuation for Quality Improvement, (2010), Nembhard Harriet Black, AKTAN MEHMET, Taylor & Francis, Editors: Harriet Black Nembhard, Mehmet Aktan.
6. Real Options in Engineering Design Operations and Management, Chapter Title: Real Options in Outsourcing, (2010), Nembhard Harriet Black, AKTAN MEHMET, Leyuan Shi, Taylor & Francis, Editors: Harriet Black Nembhard, Mehmet Aktan.
7. Real Options in Engineering Design Operations and Management, Chapter Title: Real Options Design for Sustainable Product Quality Management, (2010), Williams Julie Ann Stuart, AKTAN MEHMET, Nembhard Harriet Black. Taylor & Francis, Editors: Harriet Black Nembhard, Mehmet Aktan.
8. Handbook of Industrial and Systems Engineering, Chapter Title: Design Issues and Analysis of Experiments in Nanomanufacturing, (2005), Harriet Black Nembhard, Navin Acharya, AKTAN MEHMET, Seong Kim, CRC Press, Taylor & Francis Group, Editor: Adedeji Bodunde Badiru, ISBN:9780849327193