

EK-4

ÖZGEÇMİŞ (ÖRNEK FORM)

- 1. Adı Soyadı: Mustafa Özbayrak**
- 2. Doğum Tarihi: 16. 01. 1960**
- 3. Unvanı: Profesör**
- 4. Öğrenim Durumu: Doktora**

Derece	Alan	Üniversite	Yıl
Lisans	Endüstri Mühendisliği	Çukurova Üniversitesi	1982
Y. Lisans	Endüstri Mühendisliği	Anadolu Üniversitesi	1987
Y. Lisans	İmalat Mühendisliği	Loughborough University	1990
Doktora	İmalat Mühendisliği	Loughborough University	1993

5. Akademik Unvanlar:

Yardımcı Doçentlik Tarihi :1994
Doçentlik Tarihi :1997
Profesörlük Tarihi :2006

6. Yönetilen Yüksek Lisans ve Doktora Tezleri

6.1. Yüksek Lisans Tezleri: 53 Adet Yüksek Lisans Tezi

6.2. Doktora Tezleri: 5 Adet Doktora Tezi

- 1) February 98 Mr. A. K. Türker
“Dual Flow of Parts and Tools in Multi-Cell Flexible Manufacturing Systems: A Simulation Study”
- 2) September 99 Ms. M. Akgun
“An Investigation of the Effects of Manufacturing Planning & Control Strategies on Working Capital Cycle in an Advanced Manufacturing System: A System Dynamics Approach”
- 3) July 04 Mr. G. Mohammadi (As second supervisor)
“Sequencing Mixed-Model Assembly Lines in Just-In-Time Production Systems”.
- 4) Aug 05 Mr. H. Bazargan-Harandi (As second supervisor)
“Neural Network based Simulation of Sea-state Sequences”
- 5) May 06 Mr. A. Altumairi
“A relative performance modelling of Health Care System in Supply Chain System environment”

7. Yayınlar

7.1. Uluslararası hakemli dergilerde yayınlanan makaleler (SCI & SSCI & Arts and Humanities)

1. Coleman, P., **M. Özbayrak**, R. Bell, “Tool Management and Job Allocation in Flexible Machining Cells. Part 1: Work Oriented Strategies”, *Proceedings IMechE Part B: Journal of Engineering Manufacture*, 1996, Vol.210, No.B5, pp.405-415.
2. Coleman, P., **M. Özbayrak**, R. Bell, “Tool Management and Job Allocation in Flexible Machining Cells. Part 2: Tool Oriented Strategies”, *Proceedings IMechE Part B: Journal of Engineering Manufacture*, 1996, Vol.210, No.B5, pp.417-427.

3. **Özbayrak, M.**, B.R.B. De Souza, and R. Bell, "Design of a Tool Management System for a Flexible Manufacturing Facility", *Proceedings of the IMechE Part B: Journal of Engineering Manufacture*, 2001, Vol.215, No.B3, pp.353-370.
4. **Özbayrak, M.**, and R. Bell, "Knowledge-Based Decision Support System for the Management of Parts and Tools in FMS", *Decision Support Systems: An International Journal*, 2003, Vol. 35, No.4, pp. 487-515.
(This paper is classified as one of the top 20 Most Requested Papers by the publisher,
5. **Özbayrak, M.**, A. K. Türker, and R. Bell, "Recycling of Cutting Tools in FMS", *Int. J. of Computer Integrated Manufacturing*, 2003, Vol. 16, No.6, pp.409-427.
6. **Özbayrak, M.**, M. Akgun, and A. K. Türker, "Activity Based Cost Estimation in a Push/Pull Advanced Manufacturing System", *Int. J. of Production Economics*, 2004, Vol. 87, No.1, pp. 49-65.
(This paper is classified as one of the top 20 Most Requested Papers by the publisher,
7. Kizil, M., and **M. Özbayrak** "A Trade-off Analysis Between Process Plan Selection and Cell Formation in Cellular Manufacturing Systems", *Int. J. of Advanced Manufacturing Technology*, 2004, Vol. 23, No. 7-8, pp.501-506.
8. **Özbayrak, M.** G. Cagil, and C. Kubat "How Successfully does JIT Handle Equipment Breakdowns in an Automated Manufacturing System?", *Journal of Manufacturing Technology Management*, 2004, Vol.15, No.6, pp.479-494.
9. T. C. Papadopoulou, **M. Özbayrak**, "Leanness: experiences from journey to date", *Journal of Manufacturing Technology Management*, 2005, Vol.16, No.7, pp. 784 – 807.
10. M. Kizil and **M. Özbayrak**, T. C. Papadopoulou "Evaluation of dispatching rules in cellular manufacturing", *International Journal of Advanced Manufacturing Technology*, 2006, Vol.28, No.9, pp.985-992.
11. **Özbayrak, M.**, and M. Akgun, "The Effects of Manufacturing Control Strategies on Cash Conversion Cycle in Manufacturing Systems" *International Journal of Production Economics*, 2006, Vol.103, pp.535-550.
12. G. Mohammadi and **M. Özbayrak**, "Sequencing mixed-model assembly line in JIT production systems", *International Journal of Computer Integrated Manufacturing*, 2006, Vol.19, No.4, pp.377-382.
13. **M. Özbayrak**, T. C. Papadopoulou, and E. Samaras, "Flexible and Adaptable Planning and Control System for an MTO Supply Chain System" *Robotics and Computer Integrated Manufacturing*. 2006, Vol. 22, pp.557-565.
14. M. E. Aydin, **M. Özbayrak** and T. C. Fogarty, **Guest Editors** for the Special Issue of "Advances in Evolutionary Computation for Design and Manufacturing Problems" in *Int. J. of Production Research*, Vol.44, No.22, 2006.
15. Lancaster, J. **Özbayrak, M.** "Multi-objective Evolutionary Algorithms Applied to Project Scheduling Problems – A Survey of the State-of-the-Art", *Int. J. of Production Research*, Vo.45, No.2, pp.425-450, 2007.
16. **Özbayrak, M.**, Papadopoulou, T. C., and M. Akgun, "Systems dynamics modelling of a manufacturing supply chain system", *Simulation Modelling: Practice and Theory*, Vol.15, pp. 1338-1355, 2007.

7.2. Uluslararası diğer hakemli dergilerde yayınlanan makaleler

7.3. Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında (*Proceedings*) basılan bildiriler

1. **Özbayrak, M.**, Ö. Uysal, "An Intelligent Database Management System as a Design Aid to FMS", Proceedings of 7th International Machine Design and Production Symposium - UMTIK'96, Middle East Technical University, pp.23-32, Ankara-Turkey, 11-13 September 1996.
2. **Özbayrak, M.**, A. K. Türker, and M. Kızıl, "Dual Flow of Parts and Tools in FMS", NAFEMS World Congress'97 - Design, Simulation & Optimization, Reliability & Applicability of Computational Methods, University of Stuttgart, Germany, 9-11 April 1997.
3. **Özbayrak, M.**, A. K. Türker, and M. Pisman, "Parts and Tool Flow Management in Multi-Cell Flexible Manufacturing System", Proceedings of Winter Simulation Conference 1997, S. Androdottir, K.J. Withers, B.L. Nelson (Eds.), pp. 809-816, Atlanta, Georgia, USA, 9-13 December 1997.
4. Bilge, T., and **Özbayrak, M.**, "A Process Analysis Methodology For Enterprise Resource Planning (ERP) Implementation", Proceedings of the 16th International Conference CAPE2000: Computer Aided Production Engineering, (Ed. J. A. McGeough), pp.223-239, Edinburgh University, Edinburgh, UK, 7-9 August 2000.
5. **Özbayrak, M.**, and L. E. Roger-Jones, "Cost Estimation in a JIT-Based Advanced Manufacturing Cell", 16th International Conference on Production Research -ICPR2001, (Eds. D. Hanus and J. Talacko), 29 July-3 August 2001, Prague, Czech Republic, ISBN: 80-02-01438-3.
6. Cole, R., and **M. Özbayrak**, "Does Cost Based Sourcing Represent a False Economy within a Manufacturing System?", Proceedings of the 2nd International Conference on Responsive Manufacturing- ICRM 2002, pp.366-371, 26-28 June 2002, University of Gaziantep, Turkey, ISBN: 975-7375-33-0.
7. Mudie, A., and **M. Özbayrak**, "Transforming Traditional Systems into Lean Systems", Production and Operations Management Society Conference – POMS 2002, 5-8 April 2002, San Francisco, CA, USA.
8. Patterson, B.M., **M. Özbayrak**, and T. Papadopoulou, "Simulation of JIT Performance in a Printing Shop", Proceedings of Winter Simulation Conference –WSC 2002, pp.1915-1921, 8-11 December 2002, San Diego, CA, USA.
9. **M. Özbayrak** and I. Ihezue, "Determination of AGV fleet size in an FMS", INFORMS Meeting, 17-22 November 2002, San Diego, CA, USA.
10. **M. Özbayrak**, J. C. Catchpole, and T. C. Papadopoulou, "Manufacturing Supply Chain: A Systems Dynamics Modelling", Proceedings of EUROMA-POM Conference, Vol.2, pp. 211-220, Como Lake, Italy, 16-18 June 2003.
11. **M. Özbayrak**, T. C. Papadopoulou, and T. Phanratanamongkol "A fuzzy expert system-based machine selection as a design aid to FMS", 32nd International Conference on Computers and Industrial Engineering, August 11-13, 2003, University of Limerick, Ireland.
12. **M. Özbayrak** and T. C. Papadopoulou, "Lean scheduling in HV/LV environment", Proceedings of 14th International Conference on Flexible Automation & Intelligent Manufacturing – FAIM2004, July 12-14, 2004, Vol.2, pp. 703-710, Ryerson University, Toronto, Canada.
13. **M. Özbayrak**, T. C. Papadopoulou, and E. Samaras, "Flexible and Adaptable Planning and Control System for an MTO Supply Chain System" Proceedings of 15th International Conference on Flexible Automation & Intelligent Manufacturing – FAIM2005, July 18-22 2005, Vol.2, pp. 685-693, Bilbao, Spain.

14. **M. Özbayrak**, T. C. Papadopoulou, , and G. Ravji “Introducing lean philosophy to a manufacturing system”, Proceedings of International Conference on Agile Manufacturing – ICAM 2005, 27-28 July 2005, pp. 315-324, Helsinki, Finland.
15. T. C. Papadopoulou G. Bell and **M. Özbayrak**, “Is lean suitable for batch production”, 35th International Conference on Computers & Industrial Engineering-C&IE2005, 19-22 June 2005, Istanbul, Turkey.
16. T. C. Papadopoulou, **M. Özbayrak**, and M. Kizil, “Modelling the transformation of continuous production lines into virtual cells controlled and operated by focused cell-based teams”, 18th International Conference on Production Research – ICPR2005, 31 July- 4th August 2005, Salerno, Italy.
17. F. Olaopa, and **M. Özbayrak**, “Workload balancing across supply chain using multi-agent systems, IEMC 2005 – IEEE International Engineering Management Conference, 11-14 September 2005, St John’s Newfoundland, Canada.
18. K. Tumbe and **M. Özbayrak**, “Impact of advanced planning and scheduling on supply chain performance”, IMS '06 - 5th International Conference on Intelligent Manufacturing Systems, Sakarya University, Adapazari, Turkey.
19. A. Komashie A. Mousavi and M. **Ozbayrak** A real-time knowledge-based decision support system for health care quality improvement using discrete event simulation techniques, Proceedings of Winter Simulation Conference –WSC 2005, ISBN:0-7803-9519-0, December 2005, Orlando, FL, USA

7.4. Yazılan uluslararası kitaplar veya kitaplarda bölümler

7.5. Ulusal hakemli dergilerde yayınlanan makaleler

1. **Özbayrak, M.**, “*An Expert System for Tool Allocation at the Machine Level*”, Proceedings of XVI. Operations Research/Industrial Engineering Symposium, Bilkent University- Ankara-Turkey, 13-15 July 1994. (In Turkish)
2. **Özbayrak, M.**, M. Bircaner, N. Demirel., “*Quality Design in Process Industry by The Taguchi Method*”, Proceedings of XVII. Operations Research/Industrial Engineering Symposium, Middle East Technical University- Ankara-Turkey, 10-11 July 1995. (In Turkish)
3. Kızıl, M., and **M. Özbayrak**, “*Loop Layout and Material Handling Systems: Simulated Annealing Approach*”, Proceedings of XVII. Operations Research/Industrial Engineering Symposium, Middle East Technical University- Ankara, 10-11 July 1995.
4. **Özbayrak, M.**, and G. Çağıl, “*PCEXPert: An Expert System for Diagnosis of PC Hardware and Operating Problems*”, Proceedings of First National Symposium on Systems Sciences, pp.703- 714, School of Land Forces, Ankara-Turkey, 11-12 October 1995. (In Turkish)
5. **Özbayrak, M.**, S. Boran and G. Çağıl, “*A Decision Support System for Failure Mode and Effect Analysis (FMEA)*”, Proceedings of IMS'96-The First Turkish Symposium on Intelligent Manufacturing Systems”, (Eds. M. Özbayrak, H. Taşın, E. Öztemel), pp.278-286, Sapanca / Sakarya-Turkey, 30-31 May 1996. (In Turkish)
6. **Özbayrak, M.** and M. Pişman, “*Tool Management for Flexible Machining Installations*”, Proceedings of XVIII. Operations Research/Industrial Engineering Symposium, pp.300-304, Istanbul Technical University -Istanbul, 23-25 October 1996.

7.6. Ulusal bilimsel toplantılarda sunulan ve bildiri kitabında basılan bildiriler

7.7. Diğer yayınlar

1. **Özbayrak, M.**, H. Taşkın, E. Öztemel, *Proceedings of Intelligent Manufacturing Systems (IMS'96)*, "The First Turkish Symposium on Intelligent Manufacturing Systems", Sapanca / Sakarya-Turkey, 30-31 May 1996.
2. DeSouza, R.B.R., **Özbayrak, M.** and Bell, R., *"Integrated Modelling Tools for Tool Management System Design and Analysis"*, Production Engineering Yearbook, Singapore, pp.40-44, 1991.
3. De Souza, R.B.R. **et al.** *"An Integrated System for the Design of Flexible Machining Cells"*, Production Engineering Yearbook, Singapore, 1991.

8. Projeler

- 1985-1986 Design of a Decision Support System for Railway Industry
Turkish Railway Industry (TUVASAS).
- 1989-1991 Design of Tool Management Systems in Multi-Cell Batch Manufacturing System,
Loughborough University, SERC/ACME Research Project GR/F 42706.
- 1991-1992 Flexible, Operational, Real-time Control and Scheduling Tools (FORCAS) - Sub-Project 4 -
Interfacing Tool Requirements Analysis with Simulation and Scheduling, EUREKA Project,
Department of Trade & Industry, as a Research Assistant.
- 1992-1993 Multi Flow Control to Improve Flexible Batch Manufacturing Performance,
LUT, EPSRC Research Project GR/H 49450.
- 2005-2007 EC FP6 II-0491-FCD LogInv ALFA PROJECT, Reverse Logistics

9. İdari Görevler

10. Bilimsel ve Mesleki Kuruluşlara Üyelikler

11. Ödüller

12. Son iki yılda verdiğiniz lisans ve lisansüstü düzeydeki dersler için aşağıdaki tabloyu doldurunuz.

Akademik Yıl	Dönem	Dersin Adı	Haftalık Saati		Öğrenci Sayısı
			Teorik	Uygulama	
2014-2015	Güz	Systems Analysis	3	0	30+
		Production Planning & Control	3	0	80+
	İlkbahar	Selected Topics in IE	3	0	30+
		Engineering Management	3	0	40+
2015-2016	Güz	Engineering Management	3	0	50+
		Engineering Management Y.L.	3	0	20+
	İlkbahar	Selected Topics in IE	3	0	30+
		Operations Management	3	0	20+

Not: Açılmışsa, yaz döneminde verilen dersler de tabloya ilave edilecektir.