

## CURRICULUM VITAE

### GÜNDÜZ ULUSOY

#### ADDRESS

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#### EDUCATION

Ph.D.in Operations Research, 1975  
Department of Industrial Engineering and Operations Research, Virginia Tech, Virginia.  
M.S. in Mechanical Engineering, 1972  
Mechanical and Aerospace Sciences Department, University of Rochester, New York.  
B.S.in Mechanical Engineering, 1970  
Department of Mechanical Engineering, Robert College, Istanbul, Turkey.

#### FIELDS OF INTERESTS

Project and machine scheduling  
Innovation and manufacturing strategy development  
Evolutionary algorithms

#### ACADEMIC AND RESEARCH POSITIONS

*Emeritus Professor* (July 2015- present)  
Industrial Engineering Program, Sabancı University.  
*Professor* (September 1999 – June 2015)  
Manufacturing Systems Engineering, Sabancı University.  
*Professor* (April 1988-August 1999)  
Industrial Engineering Department, Boğaziçi University.  
*Associate Professor* (May 1982-March 1988)  
Industrial Engineering Department, Boğaziçi University.  
*NATO Research Fellow* (July - October 1982)  
Department of Operational Research, Lancaster University, UK.  
*Assistant Professor* (November 1976- April 1982)  
Industrial Engineering Department, Boğaziçi University.  
*Operations Research Analyst* (January-October 1976)  
Operations Research Division, Marmara Scientific and Industrial Research Institute, Gebze,  
Turkey.

*Instructor* (Summer Sessions 1974 and 1975)  
IEOR Department, Virginia Tech.

## **PROFESSIONAL EXPERIENCE**

Member of Turkish Aerospace Industries Science and Technology Consultation Committee (2015-present).

International IMP<sup>3</sup>rove Innovation Award Jury Member, (2015).

TIM Innovation Award - Innovalig Grand Jury Member, Turkish Exporters Assembly (2014;2015).

Member of the Standing Committee on Sustainable Competitiveness of the Manufacturing Industry, Office of the Prime Minister (2007-2010).

TUSIAD-KalDer National Quality Award Committee Chairperson (1998-2002).

TUSIAD-KalDer National Quality Award Jury Member (1994;1998; 2003;2006; 2008;2009).

Member of the National Quality Council (1992- 1994).

Technical Advisor (on sabbatical leave 1984-1985)  
Division of Engineering  
Arçelik Co., Istanbul, Turkey.

### **Consulting Work for:**

Automotive Parts and Components Manufacturers' Association  
White Goods Suppliers' Association  
Turkish Cement Manufacturers' Association  
Automotive Manufacturers' Association  
Turkish Electronics Industrialists' Association  
Machine Construction Association  
Turkish Industrialists' and Businessmen's Association  
Turkish Technology Development Fund  
State Planning Agency  
Döktaş Casting Co.  
Arçelik Co.(manufacturer of durable household goods)  
Asilçelik Co. (manufacturer of special steel)  
T. Şişe-Cam Co. (manufacturer of glass and glassware)  
İsıltaş Co. (distributor of petroleum products)  
Istanbul Municipality Metropolitan Bus Transit Authority  
Turkish Navy  
Turkish Air Force  
Yapı Merkezi Construction Co.  
Department of Transportation

## **AWARDS AND HONORS**

Honor Award presented by The Operations Research Society of Turkey for Services Rendered to Industrial Engineering and Operations Research, September 2015.

Graduating Students' Teaching Award June 2011.

NATO – TUBITAK Research Fellowship (July - October 1982)

Best Teacher Award presented by the students of Boğaziçi University, June 1980.

Fellowship by the Mechanical and Aerospace Sciences Department, University of Rochester (1970-1972)

## **GRANTS AND FUNDED PROJECT WORK**

*Dynamic Multi-Project Scheduling under Uncertainty*, funded by The Scientific and Technological Research Council of Turkey, 2010 - 2012. (Project Director)

*Innovation Models and Applications in Manufacturing Industry*, funded by The Scientific and Technological Research Council of Turkey, 2006-2007. (Project Director)

*Strategy Development for SME's in Clusters*, funded by Leonardo da Vinci Project Program of European Commission, 2004 -2006.

*Competitiveness Forum Project*, funded by Turkish Industrialists' and Businessmen's Association, 2003-2008. (Project Director)

*Project Analysis and Development Methodology*, funded by LOGO Business Solutions, 2002-2003. (Project Director)

*Competitiveness Strategies, Business Excellence And E-Business Strategies in the Machine Manufacturing Sector in Turkey*, funded by Turkish Industrialists' and Businessmen's Association, Association of Machine Manufacturers, Turkish Technology Development Foundation, 2001-2002. (Project Director)

*An Assessment of Benchmarking Studies in the Turkish Manufacturing Industries*, funded by Turkish Industrialists' and Businessmen's Association, 1999-2000. (Project Director)

*Fostering Entrepreneurship in Europe*, UNICE Competitiveness Working Group, UNICE, Brussels, 1999.

*Competitiveness Strategies and Business Excellence in the Turkish Appliance Sector Parts and Components Suppliers' Industry*, funded by Turkish Industrialists' and Businessmen's Association, Istanbul, 1998-1999. (Project Director)

*Benchmarking Europe's Competitiveness: From Analysis to Action*, UNICE Competitiveness Working Group, UNICE, Brussels, 1998.

*Technology and New Product Development Management in the Turkish Automotive Parts and Components Suppliers' Industry*, funded by Turkish Industrialists' and Businessmen's Association, 1998. (Project Director)

*Framework Benchmarking: A Pilot Study for Nine Provinces*, funded by Turkish Industrialists' and Businessmen's Association, 1997-1998. (Project Director)

*New Product Development Capability of the Turkish Electronics Industry*, funded by Turkish Technology Development Foundation, 1996-1998.

*Genetic Algorithm Development for Parallel Machine Scheduling*, funded by Boğaziçi University Research Fund, 1996-1998. (Project Director)

*Competitive Strategies and Best Practices: Turkish Electronics Industry*, funded by Turkish Industrialists' and Businessmen's Association, 1996-1997. (Project Director)

*Competitive Strategies and Best Practices: Turkish Cement Industry*, funded by Turkish Industrialists' and Businessmen's Association, 1996-1997. (Project Director)

*Competitive Strategies and Best Practices: Turkish Automotive Industry*, funded by Turkish Industrialists' and Businessmen's Association, 1996-1997. (Project Director)

*Manufacturing Resources Planning (MRP II) Application and Development*, funded by Boğaziçi University Research Fund, 1992- 1994 (Project Director).

*Computer Integrated Manufacturing at Laboratory Scale*, funded by State Planning Organization,

1991- 1995 (Project Director).

*Follow-Up Study on Maintenance and Production Planning*, funded by Döktaş Casting Co., 1991 (Project Director).

*Development of a Manufacturing Simulation Lab*, funded by Boğaziçi University Research Fund, 1990-1991 (Project Co-Director).

*Production Planning*, funded by Döktaş Casting Co., 1989-1990 (Project Director).

*Quality Cost Determination*, funded by T. Şişe - Cam Glass Manufacturing Co., 1989 (Project Director).

*A Computerized Maintenance Planning System*, funded by Döktaş Casting Co., 1988-1989 (Project Director).

*Financial Information System*, funded by Asilçelik Steel Co., 1987-1989. (Project Director).

*The Estimation and Analysis of Travel Demand for an Extended Metro Service in Istanbul*, funded by Yapı Merkezi Construction Co., 1987-1988 (Project Director).

*Manufacturing Information System*, funded by Asilçelik Steel Co., 1985-1988 (Project Director).

*Computer Aided Process Planning*, funded by Arçelik Co., 1985-1986 (Project Director).

*Die Shop Scheduling*, funded by Arçelik Co., 1985 (Project Director).

*Assembly Line Balancing*, funded by Arçelik Co., 1985 (Project Director).

*Project Planning and Control for the Naval Academy Campus Construction*, funded by Turkish Navy, 1982-1983 (Project Director).

*Bottleneck Routing*, funded by Turkish Air Force, 1979-1980 (Project Director).

*Istanbul Metropolitan Area Bus Planning Project*, funded by Istanbul Municipality, 1978-1981 (Project Co-Director).

*Keban Dam Lake Transportation Study*, funded by The Department of Transportation, 1977-1978.

*ISILITAS Reorganization and Distribution Planning*, funded by ISILITAS Fuel Oil Distribution Co., 1976.

#### **PAPER PUBLICATIONS IN REFEREED JOURNALS**

Ulusoy, G., Kılıç, K., Günday, G., Alpkan, L., "A determinants of innovativeness model for manufacturing firms", accepted for publication, *International Journal of Innovation and Regional Development*, 6, 2, 125-158, 2015.

Kılıç, K., Ulusoy, G., Günday, G., Alpkan, L., "Innovative capabilities, operations priorities and corporate performance: An analysis based on innovation taxonomy", *Journal of Engineering and Technology Management*, 35, 115-133, January-March 2015.

Beşikçi, U., Bilge, Ü., Ulusoy, G., "Multi-mode resource constrained multi-project scheduling and resource portfolio problem", *European Journal of Operational Research*, 240, 22-31, 2015. (DOI: 10.1016/j.ejor.2014.06.025)

- Can, A., Ulusoy, G., "Multiproject scheduling with 2-stage decomposition", *Annals of Operations Research*, 217, 1, 95-116, 2014. (DOI: 10.1007/s10479-014-1555-0)
- Beşikçi, U., Bilge, Ü., Ulusoy, G., "Resource dedication problem in a multi-project environment", *Flexible Services and Manufacturing*, 25, 1, 206-229, 2013.
- Günday, G., Ulusoy, G., Kılıç, K., Alpkan, L., "Effects of innovation types on firm performance", *International Journal of Production Economics*, 133, 662-676, 2011.
- Alpkan, L., Bulut, C., Günday, G., Ulusoy, G., Kılıç, K., "Organizational support for intrapreneurship and its interaction with human capital to enhance innovative performance", *Management Decision*, 48, 5, 732-755, 2010.
- Kavlak, N., Ulusoy, G., Şerifoğlu, F.S., Birbil, Ş. İ., "Client-contractor bargaining on net present value in the context of a project with limited resources", *Naval Research Logistics*, 56, 2, 93-112, 2009.
- Çetindamar, D., Ulusoy, G., "Innovation performance and partnerships in manufacturing firms in Turkey", *Journal of Manufacturing Technology Management*, 19, 3, 332-345, 2008.
- Şahin, Ş.Ö., Ülengin, F., Ulusoy, G., Aktaş, E., Kabak, Ö., Topçu, Y.İ., "A new perspective in competitiveness of nations", *Socio-Economic Planning Sciences*, 42, 4, 221-246, 2008.
- Kılıç, M., Ulusoy, G., Şerifoğlu, F.S., "A bi-objective genetic algorithm approach to risk mitigation in project scheduling", *International Journal of Production Economics*, 112, 202-216, 2008.
- Şerifoğlu, F.S., Ulusoy, G., "Multiprocessor task scheduling in multi-stage hybrid flowshops: A genetic algorithm approach", *Journal of the Operational Research Society*, 55,5, 504-512, 2004.
- Ulusoy, G., "An assessment of supply chain and innovation management practices in the manufacturing industries in Turkey", *International Journal of Production Economics*, 86, 3, 251-270, 2003.
- Şerifoğlu, F. S., Ulusoy, G., "Multiprocessor task scheduling in multi-stage hybrid flowshops".(in Turkish) *Endüstri Mühendisliği*, 13,4, 19-25, 2002.
- Ulusoy, G., İkiz, İ., Benchmarking best manufacturing practices: a study into four sectors of the Turkish industry, *International Journal of Operations and Production Management*, 21, 1020-1043, 2001.
- Ulusoy, G., Şahin, Ş., Şerifoğlu, F.S., "Four payment programs for the multi-mode resource-constrained project scheduling problem with discounted cash flows", *Annals of Operations Research*, 102, 237-261, 2001.
- Ulusoy, G., Payzın, E., Kaylan, A.R., "New product development process in Turkish electronics industry", (in Turkish), *Elektrik Mühendisliği*, 40, 410, 40-44, 2001.
- Ulusoy, G., Özgür, A., Bilgiç, T., Kaylan, A.R., Payzın, E., A study on technology management process: The parts and components suppliers in the Turkish automotive industry, *Technology Management*, 5, 245-260, 2001.
- Ulusoy, G., Özgür, A., Bilgiç, T., Kaylan, A.R., Payzın, E., "A study on technology management process: The parts and components suppliers in the Turkish automotive industry", (in Turkish) *Mühendis ve Makina*, 489, 17-28, 2000.

- Şerifoğlu, F.S., Ulusoy, G., Şahin, Ş., "A genetic algorithm approach for maximizing discounted cash flow in resource constrained project scheduling", (in Turkish) *Endüstri Mühendisliği*, 11, 2, 2-12, 2000.
- Ulusoy, G., Cebelli, S., "A genetic algorithm approach to determine the payment structure in resource constrained project scheduling problem: a bidding model", *European Journal of Operational Research*, 127, 262-278, 2000.
- Şerifoğlu, F.S., Ulusoy, G., "Parallel machine scheduling with earliness and tardiness penalties", *Computers and Operations Research*, 26, 773-787, 1999.
- Özdamar, L., Ulusoy, G., Bayyigit, M., "A heuristic treatment of tardiness and net present value criteria in resource constrained project scheduling", *International Journal of Physical Distribution & Logistics Management*, 28, 805-824, 1998.
- Şerifoğlu, F.S., Ulusoy, G., "A bicriteria 2-machine permutation flowshop problem", *European Journal of Operational Research*, 107, 414-430, 1998.
- Ulusoy, G., Şerifoğlu, F.S., Bilge, Ü., "A genetic algorithm approach to the simultaneous scheduling of machines and automated guided vehicles", *Computers and Operations Research*, 24, 335 – 351, 1997.
- Özdamar, L., Ulusoy, G., "An iterative local constraint based analysis for solving the resource constrained project scheduling problem", *Journal of Operations Management*, 14, 193 – 208, 1996.
- Ulusoy, G., Özdamar, L., "A framework for an interactive project scheduling system under limited resources", *European Journal of Operational Research*, 90, 362 – 375, 1996.
- Özdamar, L., Ulusoy, G., "A note on an iterative forward/backward scheduling technique with reference to a procedure by Li and Willis", *European Journal of Operational Research*, 89, 400–407, 1996.
- Bilge, Ü., Ulusoy, G., "A time window approach to simultaneous scheduling of machines and material handling system in an FMS", *Operations Research*, 43, 1058–1070, 1995.
- Ulusoy, G., Özdamar, L., "A heuristic scheduling algorithm for improving a project's duration and net present value", *International Journal of Operations and Production Management*, 15, 89–98, 1995.
- Ulusoy, G., Yazgaç, T., "Joint decision making for production and marketing", *International Journal of Production Research*, 33, (8), 2277-2293, 1995.
- Özdamar, L., Ulusoy, G., "A survey on the resource-constrained project scheduling problem", *IIE Transactions*, 27, 574–586, 1995.
- Ulusoy, G., Özdamar, L., "A constraint based perspective in resource constrained project scheduling", *International Journal of Production Research*, 32, 693-705, 1994.
- Ulusoy, G., Uzsoy, R., "A robust strategy approach to a strategic mobility problem", *European Journal of Operational Research*, 79, 266–276, 1994.
- Özdamar, L., Ulusoy, G., "A local constraint based analysis approach to project scheduling under general resource constraints", *European Journal of Operational Research*, 79, 287–298, 1994.
- Ulusoy, G., Bilge, Ü., "Simultaneous scheduling of machines and automated guided vehicles", *International Journal of Production Research*, 31, 2857-2873, 1993.

- Ulusoy, G., Uzsoy, R., "Computer-aided process planning and MRP: First steps towards CIM", *Interfaces*, 22, 76-86, 1992.
- Ulusoy, G., Or, I., Soydan, N., "Design and implementation of a maintenance planning and control system", *International Journal of Production Economics*, 24, 263-272, 1992.
- Ulusoy, G., Or, I., Soydan, N., "Implementation of a maintenance planning and control system", (in Turkish), *Endüstri Mühendisliği*, 4, 19, 12-22, 1992.
- Ulusoy, G., Ozdamar, L., "Heuristic performance and network/resource characteristics in resource constrained project scheduling", *Journal of the Operational Research Society*, 1989.
- Ulusoy, G., "The fleet size and mix problem for capacitated arc routing", *European Journal of Operational Research*, 22, 329-337, 1985.
- Ulusoy, G., Tovya, Y., "Travelling salesman problem: a survey", (in Turkish), *Turkish Journal of Operational Research*, 2, 68-104, 1983.

#### **PAPERS UNDER REVIEW IN REFEREED JOURNALS**

- Çinicioğlu E. N., , Ulusoy, G., Önsel, Ş., Ülengin, F., Ülengin, B., "Exploring the interaction between competitiveness of a country and innovation using Bayesian networks", under review, *Technovation*, 2015.

#### **PUBLICATIONS IN PROCEEDINGS (refereed – since 1992)**

- Çapa, C., Ulusoy, G., "Proactive project scheduling in an R&D department: a bi-objective genetic algorithm", *Proceedings of the 2015 International Conference on Industrial Engineering and Operations Management (IEOM 2015)*, IEEE Conference Publications, Print ISBN:978-1-4799-6064-4, USA: IEEE, 2015. (DOI: 10.1109/IEOM.2015.7093733).
- Küçüksayacıgil, F., Ulusoy, G., "A genetic algorithm application for multi-objective multi-project resource constrained project scheduling problem", Y. C. Toklu, G. Bekdaş (Editors), *Metaheuristics and Engineering, Proceedings of the 15th EU/ME Workshop*, 49-52, Istanbul, 2014.
- Çapa, C., Ulusoy, G., "Proactive project scheduling with a bi-objective genetic algorithm in an R&D department", Flidner, Thomas and Kolisch, Rainer and Naber, Anulark (eds.), *Proceedings of the 14th International Conference on Project Management and Scheduling*, Munich, Germany: TUM School of Management, 2014, 56-59
- Beşikçi, U., Ulusoy, G., Bilge, Ü., "A combination of different resource management policies in a multi-project environment", Aboutajdine D., Skalli A., Benchekroun B., Artiba A. (Editors), *Proceedings of the 2013 International Conference on Industrial Engineering and Systems Management (IESM)*, ISBN: 978-2-9600532-4-1, 864-869, Rabat, Morocco, 2013.
- Ulusoy, G., Kılıç K., Günday, G., Alpkan, L., "What are the determinants leading to innovation in manufacturing firms", In: M. Bulu and G. Arkali-Olcay (Editors), *Proceedings of the Sixth International Conference for Entrepreneurship, Innovation and Regional Development, ICEIRD 2013*, ISBN: 978-9944-380-09-6, 98-108, Istanbul, 2013.
- Ulusoy, G., Günday, G., Kılıç K., Alpkan, L., "Business strategy and innovativeness: Results from an empirical study", In: Emmanouilidis, C., Taisch, M., and Kiritsis, D. (Editors), *Competitive Manufacturing for Innovative Products and Services: Proceedings of the APMS 2012 Conference, Advances in Production Management Systems*, Part I, IFIP AICT 397, Series ISSN: 1868-4238, 685-692, Springer Verlag, Berlin, 2013.

- Çapa, C., Ulusoy, G., and Kılıç, K., "A three-phase approach for R&D project scheduling", *International IIE (Institute of Industrial Engineers) Conference (IIE 2013): The Global Reach of Industrial Engineering*, Norcross, GA, IIE, 2013.
- Çinicioğlu E. N., , Ulusoy, G., Önsel, Ş., Ülengin, F., Ülengin, B., "The basic competitiveness factors shaping the innovation performance of countries", *International IIE (Institute of Industrial Engineers) Conference (IIE 2013): The Global Reach of Industrial Engineering*, Norcross, GA, IIE, 2013.
- Beşikci U., Bilge Ü., Ulusoy G., "Resource portfolio problem under relaxed resource dedication policy in a multi-project environment", E. Demeulemeester and W. Herroelen (Editors), *Proceedings of 13th International Conference on Project Management and Scheduling*, 94-97, Leuven, 2012.
- Beşikçi, U., Bilge, Ü., Ulusoy, G., "Resource preference based improvement heuristics for resource portfolio problem", *Proceedings of the 3rd International Conference on Applied Operational Research ICAOR'11*, Y. Günalay, Ş. Kadıpaşaoğlu (Editors), Lecture Notes in Management Science, Vol. 3, 313-322, Vancouver, Canada, 2011.
- Beşikci U., Bilge Ü., Ulusoy G., "Different resource management policies in multi-moderesource constrained multi-project scheduling", *Proceedings of 2011 WorldCongress on Engineering and Technology*, Vol. 2, 64-67, IEEE Press, Beijing, 2011.
- Beşikçi, U., Bilge, Ü., Ulusoy, G., "Resource dedication problem in multiproject scheduling", *Proceedings, Twelfth International Workshop on Project Management and Scheduling*, 107–114, Tours, 2010.
- Günday, G., Ulusoy, G., Kılıç, K., Alpkan L., "An empirical study into the determinants of innovativeness in manufacturing firms", *Proceedings of the 3rd International Conference on Innovation, Technology and Knowledge Economics*, Ankara, 2009.
- Önsel, Ş., Ülengin, F., Ulusoy, G., Kabak, Ö., Topcu, Y.İ., Aktaş, E., "A decision support system to evaluate the competitiveness of nations", *Advances in Numerical Methods*, N. Mastorakis, J. Sakellaris (Editors), Lecture Notes in Electrical Engineering, Volume 11, 113-125, Springer Verlag, 2009.
- Ulusoy, G., Günday, G., Alpkan L., Kılıç, K., "Effects of organizational innovations on firm's production performance", *Proceedings of the 2008 IEEE International Conference on Industrial Engineering and Engineering Management*, 321-325, Piscataway, New Jersey, 2008. (Also appeared as REF 01/2009, TUSIAD-Sabancı University Competitiveness Forum, Istanbul, 2009).
- Günday, G., Ulusoy, G., Kılıç, K., Alpkan L., "Modeling innovation: Drivers of innovativeness and its impacts on firm performance", *Proceedings of 4th IEEE International Conference on Management of Innovation & Technology (ICMIT)*, 766-771, Piscataway, New Jersey, 2008. (Also appeared as REF 07/2008, TUSIAD-Sabancı University Competitiveness Forum, Istanbul, 2008).
- Günday, G., Ulusoy, G., Kılıç, K., Alpkan L., "An integrated innovation model: how innovations are born and what are their impacts on firm performance?", *Proceedings of the 15th European Operations Management Association (EUROMA) Conference*, 92-101, Groeningen, 2008. (Also appeared as REF 06/2008, TUSIAD-Sabancı University Competitiveness Forum, Istanbul, 2008).
- Ulusoy, G., Çetindamar, D., Yeğenoğlu, H., Bulut, Ç., "An empirical study on the competitiveness and innovation in four sectors of the Turkish manufacturing industry", *Proceedings of 14<sup>th</sup>*



- International Annual EurOMA Conference*, su CD, Ankara, 2007.(Also appeared as REF 05/2007, TUSIAD-Sabancı University Competitiveness Forum, Istanbul, 2007.)
- Ülengin, F., Kabak, Ö., Önsel, Ş. Aktaş, E., Ulusoy G., “International competitiveness power and human development of countries”, *Proceedings of 14th International Annual EurOMA Conference*, su CD, Ankara, 2007.
- Ulusoy, G., Yeğenoğlu, H., “Innovation performance and competitive strategies in the Turkish manufacturing industry”, *Proceedings of the 8th International Research Conference on Quality Innovation and Knowledge Management*, 907-915, New Delhi, India, 2007. (Also appeared as REF 04/2007, TUSIAD-Sabancı University Competitiveness Forum, Istanbul, 2007.)
- Kekre, S., Sarpca, E.B., Ulusoy, G., Altıntaş, N., “Value creation by Turkish enterprises”, PICMET Conference, *Proceedings CD*, 1547-1558, Istanbul, 2006. (Also appeared as REF 02/2006, TUSIAD-Sabancı University Competitiveness Forum, Istanbul, 2006.)
- Kavlak, N., Ulusoy, G., Birbil, Ş. İ., Şerifoğlu, F.S., “Client-contractor bargaining on net present value in the context of a project with limited resources”, *Proceedings of the 35th Int. Conf. on Comp. and Ind. Eng.*, Durmuşoğlu, B. and Kahraman, C. (Eds.),1, 1109-1114, Istanbul, Turkey, 2005.
- Kılıç, M., Ulusoy, G., Şerifoğlu, F. S., “A bi-objective genetic algorithm approach to project scheduling under risk”, *Proceedings*, Ninth International Workshop on Project Management and Scheduling, Oulamara A., Portmann M-C.(Eds.), 58-61, Nancy, 2004.
- Denizel, M., Arıkan, Y., Ulusoy, G., Çatay, B., “Conceptual design of an e-marketplace for SMEs in the Turkish machinery industry”, *Proceedings*, The Fifth International Conference on Electronic Commerce Research (ICECR–5), Montreal, 2002.
- Şerifoğlu, F. S., Ulusoy, G., “A genetic algorithm for multiprocessor task scheduling in multistage hybrid flow-shops”, *Proceedings*, Eighth International Workshop on Project Management and Scheduling, 334–337, Valencia, 2002.
- Ulusoy, G., “Results from sectoral benchmarking studies: Quality issues in the Turkish manufacturing industries”, *Proceedings of the 45th EOQ Congress*, 243-249, Istanbul, 2001.
- Ulusoy, G., İkiz, İ., "Business excellence and its impact on business results", (in Turkish) *Proceedings of the 9th National Congress on Quality*, 484-491, Istanbul, 2000.
- Ulusoy, G., Özgür, A., Bilgiç, T., Payzın, E., Kaylan, A.R., "Technology management process of the part and component suppliers in the Turkish automotive industry", *Proceedings of the 6<sup>th</sup> International Product Development Management Conference*, 1047-1062, Cambridge, U.K., 1999.
- Ulusoy, G., Şerifoğlu, F.S., Cebelli, S., "A genetic algorithm approach to determine the payment structure in resource constrained project scheduling problem: a bidding model", *Proceedings of the 6th International Workshop on Project Management and Scheduling*, 130, Istanbul, 1998.
- Ulusoy, G., Şerifoğlu, F.S., "A genetic algorithm approach for hybrid flowshops", *Proceedings of the 6th International Workshop on Project Management and Scheduling*, 313, Istanbul, 1998
- Ulusoy, G., İkiz İ., Özgür A., "A study into competitive strategies and operations management practices in the Turkish cement industry: an overview of survey findings", *Operations Management: Future Issues and Competitive Responses*, 489-494, Dublin, 1998.
- Payzın E., Ulusoy G., Kaylan A. R., Akova B., "New product development capabilities of the Turkish electronics industry", *Proceedings of the 5th International Product Development*

*Management Conference*, 863-876, Como, 1998.

Şerifoğlu, F.S., Ulusoy, G., "A new uniform order-based crossover operator for multi-component combinatorial optimization problems", *Late Breaking Papers at the Genetic Programming 1996 Conference*, 160 – 166, Stanford, July, 1996.

Kaynak, O., Kaykayoğlu, R., Ulusoy, G., "International conference on technology management : University / industry / government collaboration – UnIG '96", *Congress Proceedings*, World Congress of Engineering Educators and Industry Leaders, Vol. III., 127 – 130, 1996.

Ulusoy, G., Şerifoğlu, F.S., "A genetic algorithm approach to the simultaneous scheduling of machines and automated guided vehicles", (in Turkish) *Proceedings*, The First Turkish Symposium on Intelligent Manufacturing Systems, 230– 242, Sakarya, May, 1996.

Şerifoğlu, F. S., Ulusoy, G., "Branch and bound approaches to a bicriteria 2-machine permutation flowshop problem", *Proceedings*, Fifth International Workshop on Project Management and Scheduling, 220–223, Poznan, 1996.

Ulusoy, G., Özdamar, L., "An intelligent interactive framework for project management", *Proceedings*, Fourth International Workshop on Project Management and Scheduling, 72-74, Leuven, 1994.

Ulusoy, G., Ümit, B., "Simultaneous scheduling of machines and automated guided vehicles in an FMS", *Proceedings*, Second International Conference on Automation, Robotics, and Computer Vision, IA-1,1.1-1.5, Singapore, September 1992.

Ulusoy, G., Özdamar, L., "Local constraint based analysis in job shop scheduling with tardiness objectives", *Preprints*, IFAC Workshop on Automatic Control for Quality and Productivity, 259 - 270, ITU, Istanbul, June, 1992.

Ulusoy, G., Bilge, U., "Simultaneous scheduling of machines and material handling system in an FMS", *Preprints*, IFAC Workshop on Automatic Control for Quality and Productivity, 15- 25, ITU, Istanbul, June, 1992.

#### **WORKING PAPERS (since 2001 - not published)**

Çapa, Canan, Kılıç, K., Ulusoy, G., "Uncertainty assessment in project scheduling with data mining", Working Paper, Sabancı University, Istanbul, 2015.

Sevinç, M., Ulusoy, G. "Innovation clusters and determinants of innovativeness in manufacturing industries", Working Paper, Sabancı University, Istanbul, 2015.

Çinicioğlu E. N., , Ulusoy, G., Önsel, Ş., Ülengin, F., Ülengin, B., "How to improve the innovation level of a country? A Bayesian net approach", Working Paper, Sabancı University, Istanbul, last revision 2014.

Şişbot, A., Ulusoy, G., Akkan, C., "Multi-project scheduling under mode duration uncertainties", Working Paper, Sabancı University, Istanbul, last revision 2015.

Beşikçi, U., Bilge, Ü., Ulusoy, G., "A modified branch and cut procedure for resource portfolio problem under relaxed resource dedication policy", Working Paper, Sabancı University, Istanbul, last revision 2015.

Ulusoy, G., Kılıç, K., Günday, G., Alphan, L., "Innovation determinants in manufacturing firms", Working Paper, Sabancı University, Istanbul, 2010.

- Günday, G., Ulusoy, G., Kılıç, K., Alpkan, L., "Determining the factor structure of an integrated innovation model", Working Paper, Sabancı University, Istanbul, 2009.
- Günday, G., Ulusoy, G., Kılıç, K., Alpkan, L., "Integrated innovation model: Which factors drive innovation and what are the impacts of innovation on firm performance?"(in Turkish) Working Paper, Sabancı University, Istanbul, 2009.
- Ulusoy, G., Karabulut, K., "Determination of the bundle price for digital information goods", Working Paper, Sabancı University, Istanbul, 2003.
- Ulusoy, G., "Competitive manufacturing strategies for the manufacturing industries in Turkey", Working Paper, Sabancı University, Istanbul, 2003.
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## GUEST EDITORSHIP FOR SPECIAL JOURNAL ISSUES

- Guest Editor**, Special Issue on 30th National Conference on Operations Research and Industrial Engineering, *Optimization Letters*, (together with E. Kundakçioğlu and T. Ünluhurt), 6 (6), 2012.
- Guest Editor**, Special Issue on 30th National Conference on Operations Research and Industrial Engineering, *Industrial Engineering Journal*, (together with Güvenç Şahin), 23 (1), 2012.
- Guest Editor**, Special Issue on Project Scheduling, *Annals of Operations Research*, (together with W. Herroelen), 102,1, 2001.
- Guest Editor**, Special Issue on Project Management, *European Journal of Operational Research*, (together with S. Karabatı), 127, 2, 2000.
- Guest Editor**, Special Issue on Technology Management: University / Industry / Government Collaboration, *Industry and Higher Education*, (with O. Kaynak), 10, (6), 1996.

## PLENARY TALKS AT CONFERENCES

- International Conference on Industrial Engineering and Operations Management (IEOM 2012)*, Istanbul, Turkey, July 3-6, 2012.
- Yeditepe International Research Conference on Business Strategies*, Yeditepe University, İstanbul, June 2008.
- European Operations Management Conference (EUROMA)*, Bilkent University, Ankara, June 2007.

*The 24th National Conference on Operations Research and Industrial Engineering, Çukurova University, Adana, July 2004.*

**PRESENTATIONS AND SEMINARS (not published – since 1997)**

Çapa, C., Ulusoy, G., “Proactive project scheduling in an R&D department: A bi-objective genetic algorithm”, (in Turkish), *35th National Conference on Operations Research and Industrial Engineering*, Middle east Technical University, Ankara, 2015.

Şişbot, A., Ulusoy, G., Akkan, C., “Multiproject scheduling under mode duration uncertainty”, *EURO 2015*, Glasgow, 2015.

Ulusoy, G., “University-industry collaborations: Reflections”, *University-Industry Collaboration: Agriculture and Entrepreneurship*, Aegean Exporters Association, İzmir, 2014.

Ulusoy, G., “Engineering education for global competitiveness”, (in Turkish), Bahçeşehir University, 2014.

Sevinç, M., Ulusoy, G., “Innovation capabilities and factors determining innovation: A taxonomy based approach”, (in Turkish), *34th National Conference on Operations Research and Industrial Engineering*, Uludağ University, Bursa, 2014.

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Çinicioğlu E. N., Ulusoy, G., Önsel, Ş., Ülengin F., Ülengin B., “The basic competitiveness factors shaping the innovation performance of countries”, *Joint International IIE Conference and 33rd National Conference on Operations Research and Industrial Engineering*, Abdullah Gül University, Istanbul, 2013.

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Beşikçi, U., Bilge, Ü., Ulusoy, G., “Resource portfolio problem under relaxed resource dedication policy in a multi-project environment”, (in Turkish), *32nd National Conference on Operations Research and Industrial Engineering*, Doğuş University, Istanbul, 2012.

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- Karaosmanoğlu, A. P., Altay, G., Ulusoy, G., "Risk management and its level of usage in the Turkish construction industry", (in Turkish) *National Conference on Project Management*, Istanbul, 1999.
- Ulusoy, G., İkiz İ., "Supply function and relations with suppliers in supply chain management", (in Turkish) *Production and Enterprise Resource Planning and Total Productive Maintenance Meeting*, Istanbul, 1998



Ulusoy, G., "R&D strategies in firms and R&D project management", (in Turkish) *R&D Support Program Evaluation Meeting*, Turkish Scientific and Technical Research Council, Istanbul, 1998.

Payzın, E., Ulusoy, G., Kaylan, A.R., Akova, B., "New product development capabilities of the Turkish electronics industry" , *Portland International Conference on Management of Engineering and Technology - PICMET '97*, Portland, Oregon, July, 1997.

#### **OTHER PUBLICATIONS**

Çinicioğlu, E.N., Ekici, Ö.Ş., Ülengin, F., Ulusoy, G. (2012), "Innovation age in business world", (in Turkish) *Ekonomik Forum*, 10-17, November 2012.

Ulusoy, G., "Innovation scoreboard of the manufacturing industry", (in Turkish) *Moment*, No. 4, September 2008.

Ulusoy, G., "A dimension in open innovation", (in Turkish) *Bilgi Çağı*, 40-41, June 2008.

Ulusoy, G., Arsan, L., "SMEs will grow through collaboration", (in Turkish) *Bilgi Çağı*, 26-28, April 2008.

Ulusoy, G., "European Innovation Scoreboard and Turkey's position", (in Turkish) *Bilgi Çağı*, 16-19, January 2008.

Luebkeman, C., Ulusoy, G., Orru, A. M., Uzunoğlu, E., Greitschuss, J., Karaata, S., *Drivers of Change*, (in Turkish), TUSIAD-Sabancı University Competitiveness Forum, Istanbul, November 2007.

Ulusoy, G., "Innovation in Turkish manufacturing companies", (in Turkish) *Quality First*, 26-32, October 2007.

Ulusoy, G., "Let Ankara cast its shadow", (in Turkish) *Bilgi Çağı*, 44-47, September 2007.

Ulusoy, G., "An evaluation of the machine manufacturing sector in Turkey", (in Turkish) *Turkishtime Sectors*, August – September 2003.

#### **TEACHING EXPERIENCE (Course Areas and Level)**

Scheduling and Sequencing (Graduate and Undergraduate)

Manufacturing Systems Analysis (Graduate)

Manufacturing Strategies (Graduate and Undergraduate)

Linear Programming (Graduate)

Nonlinear Programming (Graduate)

Integer Programming (Graduate)

Optimization Techniques (Graduate)

Stochastic Processes (Graduate)

Systems Modelling (Graduate)

Operations Management (Graduate)

Methods of Industrial Engineering (Graduate)

System Dynamics (Graduate)

Project Scheduling (Graduate and Undergraduate)

Production Planning and Control (Graduate and Undergraduate)

Production Engineering (Graduate and Undergraduate)

Network Theory (Graduate and Undergraduate)

Introduction to Manufacturing Systems Engineering (Undergraduate)

Project Management (Undergraduate)

Quality Management (Undergraduate)  
Engineering Economy (Undergraduate)  
Planning for Engineers (Undergraduate)  
Mathematical Modelling (Undergraduate)  
Stochastic Models in Operations Research (Undergraduate)  
Operations Research (Undergraduate)

### **THESES/DISSERTATIONS SUPERVISED**

Supervisor of 59 MS theses  
Supervisor of 6 PhD dissertations

### **LABORATORIES FOUNDED**

Computer Integrated Manufacturing Laboratory (Department of Industrial Engineering, Boğaziçi University)

Manufacturing Management Systems Laboratory (Department of Industrial Engineering, Boğaziçi University)

### **ADMINISTRATIVE EXPERIENCE**

*Coordinator (2013-present)*, Summer School – Faculty of Engineering and Natural Sciences at Sabancı University.

*Member (1999- 2014)* Academic Council of Sabancı University.

*Member (2011-2015)* Faculty Evaluation and Promotion Committee at Sabancı University.

*Member (2010-2011)* Committee on Self-Assessment of Faculty of Engineering and Natural Sciences at Sabancı University

*Member (2009- 2011)* Engineering Committee within Interuniversity Council.

*Member (2008-2009)* Executive Committee of the TÜSİAD-Sabancı University Competitiveness Forum, Sabancı University

*Founding Member and Member (2005-2008)* of the Executive Committee of the National Innovation Initiative.

*Founding Director (2003-2008)* TÜSİAD-Sabancı University Competitiveness Forum, Sabancı University.

*Founding Co-Director (2001-2004)* Leaders for Industry Graduate Program, Sabancı University.

*Founding Program Coordinator (1999-2003)* Manufacturing Systems Engineering, Sabancı University.

*Member (1999 – 2010)* Scholarship Committee at Sabancı University.

*Member (1999- 2010)* Interuniversity Council of Turkey.

*Chairman (1995 – 1997)* Executive Committee of the Marmara Research Center.

*Member (1995–1996)* Executive Committee of the University-Industry Relations Council, Boğaziçi University.

*Member (1993 – 1997)* Executive Committee of the Turkish Scientific and Technical Research Council (TUBITAK).

*Deputy Rector (1992- 1994)* Boğaziçi University.

*Member (1992– 1994)* Boğaziçi University Senate.

*Member (1986-1990)* Executive Committee of the Institute for Graduate Studies in Science and Engineering, Boğaziçi University.

*Chairman (1985-1993)* Industrial Engineering Department, Boğaziçi University.

*Member (1985-1993)* Faculty Committee of the Engineering School, Boğaziçi University.

*Graduate Advisor (1978-1984) (1985-1991)* Industrial Engineering Department, Boğaziçi University.

*Member (1981-1982) (1988-1990)* Executive Committee of the Engineering School, Boğaziçi University.

*Acting Chairman (1981-1982)* Industrial Engineering Department, Boğaziçi University.

*Member (1981-1982)* Executive Committee of the Technology and Systems Research Institute,

Boğaziçi University.

### **JOURNAL EDITORSHIP**

Associate Editor (2005- present )  
*Journal of Operations and Logistics*

Associate Editor (1993 – present)  
*Transactions on Operational Research* (Turkish and English; formerly *Turkish Journal of Operational Research*).

Associate Editor (1981-2000)  
*European Journal of Operational Research* (EJOR).

Contributing Editor (1978-1992)  
*International Abstracts in Operational Research*.

Founding Chief Editor (1980-1985)  
*Turkish Journal of Operational Research* (Turkish and English).

### **JOURNALS FOR WHICH PAPERS HAVE BEEN REFEREED**

Operations Research  
Management Science  
OMEGA  
European Journal of Operational Research  
Journal of the Operational Research Society  
International Transactions in Operations Research  
International Journal of Production Research  
Networks  
Naval Research Logistics  
International Journal of Production Economics  
Journal of Operations Management  
International Journal of Operations and Production Management  
Computers and Operations Research  
IIE Transactions  
Computers and Industrial Engineering  
Transportation Science  
Flexible Services and Manufacturing  
Journal of Intelligent Manufacturing  
Operational Research: An International Journal  
Journal of Operations and Logistics  
Automation in Construction  
Transactions on Operational Research (formerly Turkish Journal of Operational Research)  
Industrial Engineering Journal (Turkish)

### **INTERNATIONAL CONFERENCE ORGANIZATIONS**

*International Workshop on Project Management and Scheduling*, EURO Working Group on Project Management and Scheduling, (2000, 2002, 2004, 2006, 2008, 2010, 2012) (Program Committee Member).

*Global Manufacturing Research Group (GMRG) 2004 Meeting*, Sabancı University, July 7-9, 2004, Istanbul, (Chair of Host Committee).

*XVI IASP World Conference on Science & Technology Parks*, IASP and Marmara Research Center, August 31 - September 4, 1999, Istanbul (Chair, Scientific Committee).

*Sixth International Workshop on Project Management and Scheduling*, EURO Working Group on Project Management and Scheduling, 7 -9 July, 1998, Istanbul (Director).

*Information Systems in Logistics and Transportation Conference*, IFORS SPC7, Gothenburg, Sweden, 1997 (Program Committee Member)

*International Conference on Technology Management: University / Industry / Government Collaboration*, June 24–26, 1996, Istanbul (Program Co–Chair).

*Fifth International Workshop on Project Management and Scheduling*, April 11-13, 1996, Poznan, Poland (Program Committee Member)

*Association of Turkish-American Scientists-Boğaziçi University Science Conference*, 19-21 July, 1993, Istanbul (Member of Organizing Committee).

*International Conference on Modelling and Simulation*, June 29-July 1, 1988, Istanbul (Co-Chair).

*NATO Advanced Study Institute on Computer Integrated Manufacturing: Current Status and Challenges*, August 31-September 12, 1987, Istanbul (Co-Director).

*The Second International Symposium on Forecasting*, June 6-9, 1982, Istanbul (Co-Chair).

#### **NATIONAL CONFERENCE ORGANIZATIONS**

*The Thirtieth National Conference on Operations Research and Industrial Engineering*, June 30 – July 2, 2010, Istanbul (General Chairman).

*Congress on Competitiveness 2007*, SEDEFED and TUSIAD-Sabanci University Competitiveness Forum, Istanbul, November 8, 2007 (Co-Chair).

*Congress on Competitiveness 2006*, SEDEFED and TUSIAD-Sabanci University Competitiveness Forum, Istanbul, November 8, 2006, Istanbul (Co-Chair).

*Congress on Competitiveness 2005*, SEDEFED and TUSIAD-Sabanci University Competitiveness Forum, Istanbul, November 8, 2005 (Co-Chair).

*Collaboration in Automotive Industry: Industrial Design and Product Development*, TUSIAD-Sabanci University Competitiveness Forum, October 22, 2004, Istanbul (Chair).

*Workshop on Opportunities for Strategic Alliances between Manufacturers and Suppliers in the Automotive Industry*, TUSIAD-Sabanci University Competitiveness Forum, September 25-26, 2003, Istanbul (Chair).

*Third National Project Management Congress*, Istanbul Project Management Association and Sabanci University, April 12-13, 2001, Istanbul (Co-Chair).

*The First Turkish Symposium on Intelligent Manufacturing Systems*, May 30 – 31, 1996, Sakarya, Turkey (Member, Advisory Committee).

*The Fifteenth National Conference on Operations Research and Industrial Engineering*, July 7-9, 1993, Istanbul (General Chairman).

*The Fourteenth National Conference on Operations Research and Industrial Engineering*, June 17-19, 1991, Istanbul (Member, Organizing Committee).

*Industrial Engineering '88*, November 2-4, 1988, Istanbul (Member, Program Committee).

*The Eleventh National Conference on Operations Research*, September 23-25, 1987, Istanbul  
(Member, Organizing Committee).

*The Ninth National Conference on Operations Research*, June 26-28, 1984, Istanbul  
(Member, Organizing Committee).

*The Second National Conference on Operations Research*, June 16-18, 1976, Ankara (Member,  
Organizing Committee).

#### **MEMBERSHIPS AND ADMINISTRATIVE POSITIONS HELD IN PROFESSIONAL SOCIETIES**

Member (2008 - present)  
IFIP WG5.7 Advances in Production Management Systems

Member (1998 - present)  
Turkish Quality Association

Member (1990-present)  
INFORMS

Member (1986-present)  
Turkish Machine Design and Manufacturing Society

Member (1976-present)  
Turkish Operational Research Society

Executive Committee Member (1998 - 2002)  
Turkish Quality Society

Member (1997 - present)  
Turkish Quality Society Advisory Council

Executive Committee Member (1994 – 1998)  
Turkish Industrial Management Society

Executive Committee Member (1976-1989)  
Vice President (1981-1989)  
Turkish Operational Research Society

#### **MEMBERSHIPS AND ADMINISTRATIVE POSITIONS HELD IN COMMUNITY ORGANIZATIONS**

Member (1987-present)  
Boğaziçi University Alumni Association (BÜMED)

Founding Member (1995 – present)  
Turkish Informatics Foundation

Founding Member (1994 – present)  
Science Foundation

Member of the Board (1994 – 2000)  
Elginkan Foundation

Member of the Scholarship Board (1993 – 1995)  
Boğaziçi University Foundation

CV - Gündüz Ulusoy

Member of the Academic Board (1993 – 1996)  
Boğaziçi University Foundation

Executive Committee Member (1988-1991)  
Boğaziçi University Alumni Association (BÜMED)