Ceyda Oğuz

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Personal:

Nationality   : Turkish
Languages   : English, Turkish
Marital Status: Single

Education:

Ph.D. in Industrial Engineering, Bilkent University, Ankara, Turkey, 1993.
M.S. in Industrial Engineering, Bilkent University, Ankara, Turkey, 1988.
B.S. in Industrial Engineering, Middle East Technical University, Ankara, Turkey, 1986.

Research Interests:

Computational Biology and Bioinformatics, Computational Complexity, Design of Algorithms, Logistics, Metaheuristics, Mathematical Programming, Scheduling.

Professional Experience:

December'10-Present	Professor, Department of Industrial Engineering Koç University, İstanbul, Turkey. **Research Experience:** on scheduling, bioinformatics, logistics, and metaheuristics. **Teaching Experience:** *Undergraduate*: Coordination of Graduation Projects, Logistics, Operations and Facilities Design, Project Management; *Graduate*: Heuristic Methods. **Major Administrative Duties:** Head of Department of Industrial Engineering.
September'04-November'10	Associate Professor, Department of Industrial Engineering Koç University, İstanbul, Turkey. **Research Experience:** on scheduling, bioinformatics, logistics, and metaheuristics. **Teaching Experience:** *Undergraduate*: Logistics, Operations and Facilities Design, Project Management; *Graduate*: Scheduling, Heuristic Methods. **Major Administrative Duties:** Coordinator of the M.S. in IE/Ph.D. in IEOM program.
September'03-August'04	Associate Professor, Department of Logistics The Hong Kong Polytechnic University, Hong Kong. **Research Experience:** on scheduling, DNA sequencing, container terminal management, and metaheuristics. **Teaching Experience:** *Undergraduate*: Project Management; *Graduate*: Project Management, Service Operations Management. **Major Administrative Duties:** Award Coordinator for MSc in Management with a specialism in Operations Management.
February'00-August'03	Associate Professor, Department of Management The Hong Kong Polytechnic University, Hong Kong. **Research Experience:** on scheduling, DNA sequencing, container terminal management, and metaheuristics. **Teaching Experience:** *Undergraduate*: Deterministic Operations Research, Stochastic Operations Research, Design and Control of Operation Systems, Project Management; *Graduate*: Service Operations Management, Stochastic Operations Research. **Major Administrative Duties:** Award Coordinator for MSc in Management with a specialism in Operations Management, Timetabling Coordinator.

September'94- **January'00**	Assistant Professor, Department of Management The Hong Kong Polytechnic University, Hong Kong. **Research Experience:** on scheduling and metaheuristics. **Teaching Experience:** *Undergraduate*: Management, Management Science, Operations Management, Deterministic Operations Research, Stochastic Operations Research, Design and Control of Operation Systems; *Graduate*: Project Management, Stochastic Operations Research. **Major Administrative Duties:** Award Coordinator for BA Management with a specialism in Operations Management, Timetabling Coordinator.
July'94- **August'94**	Visiting Scholar, Department of Industrial Engineering Bilkent University, Ankara, Turkey. **Research Experience:** on earliness-tardiness scheduling.
May'93- **June'94**	Visiting Scholar, Department of Management Hong Kong Polytechnic, Hong Kong. **Research Experience:** on earliness-tardiness scheduling, flow-shop scheduling, and batch scheduling **Teaching Experience:** *Undergraduate*: Operations Management, Quantitative Methods; *Graduate*: Stochastic Operations Research.
September'86- **May'93**	Research Assistant, Department of Industrial Engineering Bilkent University, Ankara, Turkey. **Research Experience:** on Just-in-time production systems, earliness-tardiness scheduling, and stochastic inventory theory. **Teaching Experience:** (as a teaching assistant) *Undergraduate:* Discrete Mathematics, Introduction to Decision Analysis, Introduction to Modeling and Optimization, Quality Assurance and Reliability, Simulation; *Graduate:* Production Planning and Control Systems. **Special Projects:** A Research Project for the Design of Production Planning and Control System for PETKİM; Member of the Local Organizing Committee of National Operations Research Conference XII, 1989.

Visiting Positions:

July'14	Visiting Professor, Computational Informatics CSIRO, Clayton, VIC Australia **Research Experience:** on optimization in ports.
January'13	Visiting Professor, Science and Engineering Faculty Queensland University of Technology, Brisbane, Australia **Research Experience:** on scheduling in health systems.
August'11- **January'12**	Visiting Professor, School of Computing Science University of Nottingham, Nottingham, UK **Research Experience:** on scheduling and hyper-heuristics.
June'08, 04, 03; **September'05**	Visiting Researcher, Institute of Computing Science Poznań University of Technology, Poznań, Poland **Research Experience:** on scheduling and bioinformatics.
May'04	Visiting Researcher, Institute of Engineering Cybernetics Wrocław University of Technology, Wrocław, Poland **Research Experience:** on scheduling and metaheuristics.
June'03	Visiting Researcher, LAMIH (Production Systems) University of Valenciennes, Valenciennes, France, **Research Experience:** on scheduling and metaheuristics.
August'02	Visiting Researcher, School of Mathematical Sciences Queensland University of Technology, Brisbane, Australia. **Research Experience:** on railway scheduling and metaheuristics.
June'02	Visiting Researcher, Department of Mathematics/Computer Science University of Osnabrück, Osnabrück, Germany. **Research Experience:** on job scheduling and timetabling.

Publications in Refereed Journals (ISI):

- C.O. Unsal and C. Oğuz, "Constraint Programming Approach to Quay Crane Scheduling Problem", *Transportation Research: Part E*, Vol.59, pp:108–122, 2013.

- J. Blazewicz, E.K. Burke, G. Kendall, W. Mruczkiewicz, C. Oğuz and A. Swiercz, "A Hyper-Heuristic Approach to Sequencing by Hybridization of DNA Sequences", *Annals of Operations Research*, Vol.207, No.1, pp:27–41, 2013.

- E.B. Edis, C. Oğuz and I. Ozkarahan, "Parallel Machine Scheduling with Additional Resources: Notation, Classification, Models and Solution Methods", *European Journal of Operational Research*, Vol.230, No.3, pp:449–463, 2013.

- E.B. Edis, C. Oğuz and I. Ozkarahan, "Solution Approaches for Simultaneous Scheduling of Jobs and Operators on Parallel Machines", *Journal of the Faculty of Engineering and Architecture of Gazi University*, Vol.27, No.3, pp:527–535, 2012.

- E.B. Edis and C. Oğuz , "Parallel Machine Scheduling with Flexible Resources", *Computers and Industrial Engineering*, Vol.63, No.2, pp:433–447, 2012.

- K. Katterbauer, C. Oğuz and F.S. Salman, "Hybrid Adaptive Large Neighborhood Search for the Optimal Statistic Median Problem", *Computers and Operations Research*, Vol.39, pp: 2679–2687, 2012.

- G. Kirlik and C. Oğuz, "A Variable Neighborhood Search for Minimizing Tardiness with Sequence Dependent Setup Times on a Single Machine", *Computers and Operations Research*, Vol.39, pp: 1506–1520, 2012.

- B. Cesaret, C. Oğuz and F.S. Salman, "A Tabu Search Algorithm for Order Acceptance and Scheduling Problem", *Computers and Operations Research*, Vol.39, pp:1197–1205, 2012.

- J. Błażewicz, T.C.E. Cheng, M. Machowiak and C. Oğuz, "Berth and Quay Crane Allocation: A Moldable Task Scheduling Model", *Journal of Operational Research Society*, Vol.62, No.7, pp:1189–1197, 2011.

- Ş. Atalay, M. Çanci, G. Kaya, C. Oğuz and M. Türkay, "Intermodal Transportation in Istanbul via Marmaray", *IBM Journal of Research and Development*, Vol.54, No.6, pp:9:1–9:10, 2010.

- C. Oğuz, F.S. Salman and Z.B. Yalçın, "Order Acceptance and Scheduling Decisions in Make-to-Order Systems", *International Journal of Production Economics*, Vol.125, No.1, pp:200–211, 2010.

- W.K. Yeung, C. Oğuz and T.C.E. Cheng, "Two-machine Flow Shop Scheduling with Common Due Window to Minimize Weighted Number of Early and Tardy Jobs", *Naval Research Logistics*, Vol.56, No.7, pp:593–599, 2009.

- P. Hansen, C. Oğuz and N. Mladenović, "Variable Neighborhood Search for Minimum Cost Berth Allocation", *European Journal of Operational Research*, Vol.191, No.3, pp:636–649, 2008.

- A. Janiak, E. Kozan, M. Lichtenstein and C. Oğuz, "Metaheuristic Approaches to the Hybrid Flow Shop Scheduling Problem with a Cost-related Criterion", *International Journal of Production Economics*, Vol.105, pp:407–424, 2007.

- J. Błażewicz, C. Oğuz, A. Świercz and J. Węglarz, "DNA Sequencing by Hybridization via Genetic Search", *Operations Research*, Vol.54, pp:1185–1192, 2006.

- J. Błażewicz, F. Glover, M. Kasprzak, W. T. Markiewicz, C. Oğuz, D. Rebholz-Schuhmann and A. Swiercz, "Dealing with Repetitions in Sequencing by Hybridization", *Computational Biology and Chemistry*, Vol.30, pp:313–394, 2006.

- P. Brucker, S. Knust and C. Oğuz, "Scheduling Chains with Identical Jobs and Constant Delays on a Single Machine", *Mathematical Methods of Operations Research*, Vol.63, No.1, pp:63–75, 2006.

- Y. Zinder, V.H. Do and C. Oğuz, "Computational Complexity of Some Scheduling Problems with Multiprocessor Tasks", *Discrete Optimization*, Vol.2, No.4, pp:391–408, 2005 (among top 25 articles browsed in this journal during October 2005 — June 2006).

- M.F. Ercan and C. Oğuz, "Performance of Local Search Heuristics on Scheduling a Class of Pipelined Multiprocessor Tasks", *Computers and Electrical Engineering*, Vol.31, No.8, pp:537–555, 2005.

- C. Oğuz and M.F. Ercan, "A Genetic Algorithm for Hybrid Flow-shop Scheduling with Multiprocessor Tasks", *Journal of Scheduling*, Vol.8, No.4, pp:323–351, 2005.

- W.K. Yeung, C. Oğuz and T.C.E. Cheng, "Two-stage Flowshop Earliness and Tardiness Machine Scheduling Involving a Common Due Window", *International Journal of Production Economics*, Vol.90, pp:421–434, 2004.
- C. Oğuz, Y. Zinder, V.H. Do, A. Janiak and M. Lichtenstein, "Hybrid Flow-shop Scheduling Problems with Multiprocessor Task Systems", *European Journal of Operational Research*, Vol.152, pp:115–131, 2004.
- C. Oğuz, M.F. Ercan, T.C.E. Cheng and Y.F. Fung, "Heuristic Algorithms for Multiprocessor Task Scheduling in a Two-stage Hybrid Flow-shop", *European Journal of Operational Research*, Vol.149, pp:390–403, 2003.
- W.K. Yeung, C. Oğuz and T.C.E. Cheng, "Minimizing Weighted Number of Early and Tardy Jobs with a Common Due Window Location Penalty", *Annals of Operations Research*, Vol.108, pp:33–54, 2001.
- M.F. Ercan, C. Oğuz and Y.F. Fung, "Scheduling Image Processing Tasks in A Multi-layer System", *Computers and Electrical Engineering*, Vol.27, No.6, pp:429–443, 2001.
- W.K. Yeung, C. Oğuz and T.C.E. Cheng, "Single Machine Scheduling with a Common Due Window", *Computers and Operations Research*, Vol.28, No.2, pp:157–175, 2001.
- M.A. Shaffer, J.R.W. Joplin, M.P. Bell, T. Lau and C. Oğuz, "Gender Discrimination and Job-related Outcomes: A Cross-Cultural Comparison of Working Women in the United States and China", *Journal of Vocational Behavior*, Vol.57, pp:395–427, 2000.
- M.A. Shaffer, J.R.W. Joplin, M.P. Bell, T. Lau and C. Oğuz, "Disruptions to Women's Social Identity: A Comparative Study of Workplace Stress Experienced by Women in Three Geographic Regions", *Journal of Occupational Health Psychology*, Vol.5, No.4, pp:441–456, 2000.
- C. Oğuz, B.M.T. Lin and T.C.E. Cheng, "Two-stage Flowshop Scheduling with a Common Second-stage Machine", *Computers and Operations Research*, Vol.24, No.12, pp:1169–1174, 1997.
- C. Oğuz and M.F. Ercan, "Scheduling Multiprocessor Tasks in a Two-stage Flow-shop Environment", *Computers and Industrial Engineering*, Vol.33, Nos:1-2, pp:269–272, 1997.
- T.C.E. Cheng, C. Oğuz and X.D. Qi, "Due-date Assignment and Single Machine Scheduling with Compressible Processing Times", *International Journal of Production Economics*, Vol.43, pp:107–113, 1996.
- C. Oğuz and C. Dinçer, "Single Machine Earliness-tardiness Scheduling Problems Using the Equal-slack Rule", *Journal of Operational Research Society*, Vol.45, No.5, pp:589–594, 1994.
- T.C.E. Cheng and C. Oğuz, "Minimizing Total Penalty for the Single-machine Due-date Assignment and Sequencing Problem", *Asia-Pacific Journal of Operational Research*, Vol.11, pp:19–30, 1994.
- T.C.E. Cheng, Z.-L. Chen and C. Oğuz, "One-machine Batching and Sequencing of Multiple-type Items", *Computers and Operations Research*, Vol.21, No.7, pp:717–721, 1994.
- C. Oğuz and C. Dinçer, "Incorporating Just-in-time into a Decision Support System Environment", *European Journal of Operational Research*, Vol.55, No.3, pp:344–356, 1991.

Publications in Refereed Journals (non-ISI):

- E.B. Edis and C. Oğuz, "Parallel Machine Scheduling with Additional Resources: A Lagrangian-Based Constraint Programming Approach", *Lecture Notes in Computer Science*, Vol.6697, pp:92–98, 2011.
- A. Jouglet, C. Oğuz and M. Sevaux, "Hybrid Flow-shop: A Memetic Algorithm Using Constraint-based Scheduling for Efficient Search", *Journal of Mathematical Modelling and Algorithms*, Vol.8, No.3, pp:271–292, 2009.
- J. Błażewicz, B. Dziurdza, W.T. Markiewicz and C. Oğuz, "On the Computational Complexity of Designing DNA Randomizations in a Combinatorial Protein Experiment", *Foundations of Computing and Decision Sciences*, Vol.32, No.3, pp:185–197, 2007.
- J. Błażewicz, B. Dziurdza, W.T. Markiewicz and C. Oğuz, "The Parallel Genetic Algorithm for Designing DNA Randomizations in a Combinatorial Protein Experiment", *Lecture Notes in Computer Science*, Vol.3911, pp:1097–1105, 2006.
- C. Oğuz, Y.F. Fung, M.F. Ercan, and X.T. Qi, "Parallel Genetic Algorithm for a Flow-shop Problem with Multiprocessor Tasks", *Lecture Notes in Computer Science*, Vol.2667, pp:987–997, 2003.
- M.F. Ercan, C. Oğuz and Y.F. Fung, "Performance Evaluation of Heuristics for Scheduling Pipelined Multiprocessor Tasks", *Lecture Notes in Computer Science*, Vol.2073, pp:61–70, 2001.
- M.F. Ercan, C. Oğuz and Y.F. Fung, "Job Scheduling in a Multi-layer Vision System", *Lecture Notes in Computer Science*, Vol.1685, pp:317–321, 1999.

Publications in Refereed Conference Proceedings:

- C.O. Unsal and C. Oğuz, "An Application of Moldable Task Scheduling in Maritime Terminals", *Proceedings of the 2013 International Conference on Logistics and Maritime Systems*, 2013.

- I. Koyuncu and C. Oğuz, "Yard Assignment Problem in Bulk Port Terminals", *Proceedings of the 2013 International Conference on Logistics and Maritime Systems*, 2013.

- A. Altindag and C. Oğuz, "Variable Neighborhood Search for Order Acceptance Scheduling Problem", *Proceedings of the 11th Workshop on Models and Algorithms for Planning and Scheduling Problems*, 2013.

- G. Ermis and C. Oğuz, "Scheduling chains with constant timelags and variable release times on a single machine", *Proceedings of the MISTA 2013, Multidisciplinary International Scheduling Conference*, 2013.

- C.O. Unsal and C. Oğuz, "Constraint Programming Approach to Quay Crane Scheduling Problem", *Proceedings of the 2012 International Conference on Logistics and Maritime Systems*, ID 148, 2012.

- E. Rodoslu and C. Oğuz, "A Heuristic Algorithm for the Lot Streaming Problem in Multi-Product Flow Shops with Unit and Equal Sublots", *Proceedings of the 13th International Conference on Project Management and Scheduling*, pp: 258–261, 2012.

- F. Virdil and C. Oğuz, "Heuristic Approaches to Minimize the Number of Rehandlings for Export Containers", in *Maritime Logistics in the Global Economy*, T. Blecker, C. Jahn, W. Kersten (Eds.), pp:95–108, 2011.

- B. Cesaret, C. Oğuz and F.S. Salman, "A Tabu Search Algorithm for Order Acceptance and Scheduling", *Proceedings of Twelfth International Conference on Project Management and Scheduling*, pp:141–144, 2010.

- C. Oğuz and Ö. Narin, "Solving Berth Allocation Problem with Column Generation", *Proceedings of the 4th Multidisciplinary International Conference on Scheduling: Theory and Application*, pp:744–747, 2009.

- J. Blazewicz, M. Machowiak and C. Oğuz, "Approximation Algorithm for Berth and Quay Crane Allocation Problem with Bounds", *Proceedings of the 4th Multidisciplinary International Conference on Scheduling: Theory and Application*, pp:748–751, 2009.

- Z. Bilgintürk, C. Oğuz and S. Salman, "Order Acceptance and Scheduling Decisions in Make-to-Order Systems", *Proceedings of the 3rd Multidisciplinary International Conference on Scheduling: Theory and Application*, pp:80–87, 2007.

- M. Mahowiak, J. Błażewicz and C. Oğuz, "Quay Cranes Allocation as a Moldable Task Scheduling Problem", *Proceedings of Tenth International Workshop on Project Management and Scheduling*, pp:243–247, 2006.

- C. Oğuz and X. Qi, "Preemptive Scheduling Multiprocessor Tasks to Minimize Total Weighted Completion Time on Two Dedicated Processors", *Proceedings of Tenth International Workshop on Project Management and Scheduling*, pp:270–274, 2006.

- P. Hansen, N. Mladenović and C. Oğuz, "Variable Neighborhood Search for Minimum Cost Berth Allocation", *Proceedings of the 18th Mini EURO Conference on VNS*, 10 pages, 2005.

- C. Oğuz and E. Yücel, "A Branch-and-bound Algorithm for Single Machine Total Tardiness problem with Release Dates", *Proceedings of the 2nd Multidisciplinary International Conference on Scheduling: Theory and Applications*, pp:162–168, 2005.

- A. Janiak, M. Lichtenstein and C. Oğuz, "Scheduling multiprocessor tasks in the hybrid flow shop", S.Domek, R. Kaszynski (eds) *Proceedings of the 10th IEEE International Conference on Methods and Models in Automation and Robotics*, Vol.2, pp:1279–1283, 2004.

- P. Brucker, S. Knust and C. Oğuz, "Scheduling Chains with Identical Jobs and Constant Delays on a Single Machine", *Proceedings of Ninth International Workshop on Project Management and Scheduling*, pp:119–122, 2004.

- C. Oğuz, J. Błażewicz, T.C.E. Cheng and M. Machowiak, "Berth Allocation as a Moldable Task Scheduling Problem", *Proceedings of Ninth International Workshop on Project Management and Scheduling*, pp:201–205, 2004.

- C. Oğuz and L. Tang, "A Lagrangian Relaxation Method for Hybrid Flow-shop Scheduling with Multiprocessor Tasks to Minimize Total Weighted Completion Time", *Proceedings of the 1st Multidisciplinary International Conference on Scheduling: Theory and Applications*, pp:638–653, 2003.

- C. Oğuz and M.F. Ercan, "A Comparison of Local Search Algorithms for Scheduling Multiprocessor Tasks", *Proceedings of Sixth Workshop on Models and Algorithms for Planning and Scheduling Problems*, pp:86–87, 2003.
- G. Yang, Z. Wu and C. Oğuz, "A Branch and Bound Approach for Earliness and Tardiness Penalty Problem with Distinct Due Dates", *Proceedings of the 4th World Congress on Intelligent Control and Automation*, pp:371–375, 2002.
- C. Oğuz and B. Cheung, "A Genetic Algorithm for Flow-shop Scheduling Problems with Multiprocessor Tasks", *Proceedings of Eighth International Workshop on Project Management and Scheduling*, pp:282–287, 2002.
- C. Oğuz, A. Janiak and M. Lichtenstein, "Metaheuristic Algorithms for Hybrid Flow-shop Scheduling Problem with Multiprocessor Tasks", *Proceedings of 4th Metaheuristics International Conference*, pp:477–481, 2001.
- M.A. Lichtenstein, C. Oğuz, V.H. Do and Y. Zinder, "Deterministic Scheduling Problems with Multiprocessor Tasks: NP-hardness Results, Polynomially Solvable Cases and Approximation Algorithms", *Proceedings of Fifth Workshop on Models and Algorithms for Planning and Scheduling Problems*, pp:95–96, 2001.
- C. Oğuz and Z-G. Hou, "A Heuristic Algorithm for Scheduling Multiprocessor Tasks with Precedence Constraints", *Proceedings of Fifth Workshop on Models and Algorithms for Planning and Scheduling Problems*, pp:109–110, 2001.
- C. Oğuz, M.F. Ercan, T.C.E. Cheng and Y.F. Fung, "Heuristic Algorithms for Multiprocessor Task Scheduling in Flow-shops", *Proceedings of Seventh International Workshop on Project Management and Scheduling*, pp:227–229, 2000.
- C. Oğuz, X.T. Qi and Y.F. Fung, "Two Stage Flow Shop Scheduling Problem with Multiprocessor Tasks at the First Stage", *Operations Research Proceedings 1998,* Springer-Verlag, pp:366–375, 1998.
- C. Oğuz, X.T. Qi and Y.F. Fung, "Hybrid Flow Shop Scheduling with Unit Processing Time Multiprocessor Tasks", *Proceedings of IEEE International Conference on Intelligent Engineering Systems (INES'98)*, pp:309–311, 1998.
- C. Oğuz, M.F. Ercan and Y.F. Fung, "Heuristic Algorithms for Scheduling Multi Layer Computer Systems", *Proceedings of IEEE First International Conference on Intelligent Processing Systems (ICIPS'97)*, pp:1347–1350, 1997.

Papers Submitted to Refereed Journals:

- A. Ernst, C. Oğuz, G. Singh and G. Taherkhani, "Mathematical Models for the Berth Allocation Problem in Dry Bulk Terminals", Under revision, 2015.

Working Papers:

- P. Hansen and C. Oğuz, "A Note on Formulations of the Static and Dynamic Berth Allocation Problems", *Working Paper No.G-2003-30*, GERAD-École des Hautes Études Commerciales, May 2003.
- C. Oğuz and B. Cheung, "A Genetic Algorithm for Flow-shop Scheduling Problems with Multiprocessor Tasks", *Working Paper No.G-2002-04*, GERAD-École des Hautes Études Commerciales, January 2002.
- C. Oğuz, Y. Zinder, V.H. Do, A. Janiak and M. Lichtenstein, "Hybrid Flow-shop Scheduling Problems with Multiprocessor Task Systems", *Working Paper No.07/00-01*, Faculty of Business and Information Systems, The Hong Kong Polytechnic University, July 2001.
- W.K. Yeung, C. Oğuz and T.C.E. Cheng, "Single Machine Scheduling to Minimize Weighted Number of Early and Tardy Jobs with Common Due Window", *Working Paper No.09/97-8*, Faculty of Business and Information Systems, The Hong Kong Polytechnic University, September 1998.
- T.C.E. Cheng and C. Oğuz, "Minimizing Number of Early Jobs with Time Windows on a Single Machine", Deptartment of Management, Hong Kong Polytechnic, March 1994.
- V. Portougal, T.C.E. Cheng and C. Oğuz, "Minimizing Makespan in the N-machine Assembly-type Flow-shop Scheduling Problem", Dept. of Management, Hong Kong Polytechnic, March 1994.
- C. Oğuz, T.L. Morin and C. Dinçer, "Incomplete Dynamic Programming for Single Machine Scheduling with both Earliness and Tardiness Penalties", *Research Report No. IEOR9210*, Dept. of Industrial Engineering, Bilkent University, September 1992, revised August 1994.

- C. Oğuz and C. Dinçer, "Design and Analysis of a Single-line, Single-item Just-in-time Production System", *Research Report No. IEOR8902*, Dept. of Industrial Engineering, Bilkent University, 1989.

- C. Oğuz and C. Dinçer, "Determining Some Design Parameters in Just-in-time Production Systems Under Demand Variations" (in Turkish), *Research Report No. IEOR8815*, Department of Industrial Engineering, Bilkent University, 1988.

- C. Dinçer and C. Oğuz, "Simulation of Just-in-time Production Systems", *Research Report No. IEOR8820*, Dept. of Industrial Engineering, Bilkent University, 1988.

Conference and Other Presentations:

- C. Oğuz, "Operational Problems in Container Terminals", *Invited speaker*, Barbaros Tansel Memorial Lecture Series, Ankara, Turkey, April 2014.

- C. Oğuz, "A Constraint Programming Model for Quay Crane Scheduling ", *Invited speaker*, Gaziantep Üniversitesi, Gaziantep; Turkey, December 2013.

- C. Oğuz, "A Constraint Programming Model for Quay Crane Scheduling", *Invited speaker*, WITOR2 Second Turkish Israeli OR Workshop, Tel Aviv, Israel, October 2013.

- C. Oğuz, "A Constraint Programming Model for Quay Crane Scheduling", *Invited speaker*, National University of Singapore, Singapore, September 2013.

- C. Oğuz, "A Constraint Programming Approach for Solving Reclaimer Scheduling Problem in Bulk Terminals", *LOGMS 2013*, Singapore, September 2013.

- C. Oğuz, "Quay Crane Scheduling via Constraint Programming", *Invited speaker*, Sabanci University, İstanbul, Turkey, May 2013.

- C. Oğuz, "Computational Biology and Operations Research", *EURO XXV*, Vilnius, Lithuania, July 2012 (keynote speaker).

- C. Oğuz and E.B. Edis, "A Constraint Programming Approach for Order Acceptance and Scheduling Problem", *OR53*, Nottingham, UK, September 2011.

- C. Oğuz, "Metaheuristic Approaches to Scheduling Problems", *Çizelgeleme Kampı*, Yalova, September 2011 (invited lecture).

- G. Kirlik and C. Oğuz, "A Variable Neighborhood Search for Minimizing Total Weighted Tardiness with Sequence Dependent Setup Times on a Single Machine", *New Challenges in Scheduling Theory*, Frejus, France, September 2010 (invited).

- C. Oğuz, "Order Acceptance and Scheduling Decisions in Make-to-Order Systems", *Scheduling Algorithms for New Emerging Applications*, Marseille, France, May 2008 (invited).

- C. Oğuz, "Solving Difficult Optimization Problems via Metaheuristics", *Invited speaker*, Department of Industrial Engineering, Bilkent University, Ankara, Turkey, November 2007.

- Z. Bilgintürk, C. Oğuz and S. Salman, "A Simulated Annealing Algorithm for Order Selection and Scheduling Problem in a Make-to-order System", *EURO XXII Conference*, Prague, Czech Republic, July 2007 (invited).

- A. Swiercz, J. Blazewicz, F. Glover, M. Kasprzak, W.T. Markiewicz, C. Oğuz and D. Rebholz-Schuhmann, "Dealing with Repetitions in Sequencing by Hybridization", *EURO XXII Conference*, Prague, Czech Republic, July 2007 (invited).

- C. Oğuz and S. Sonuç, "Finding 2-D Minimum Free Energy Configurations of Proteins in HP-Model", *EURO XXII Conference*, Prague, Czech Republic, July 2007 (invited).

- C. Oğuz, "Metaheuristic Approaches for Protein Structure Prediction", *EURO XXI Conference*, Reykjavik, Iceland, July 2006 (invited).

- C. Oğuz and X. Qi, "Scheduling Preemptive Multiprocessor Tasks to Minimize Total Weighted Completion Time on Two Dedicated Processors", *INFORMS International Meeting*, Hong Kong SAR, June 2006 (invited).

- C. Oğuz and X. Qi, "Minimizing Total Weighted Completion Time on Two Dedicated Processors with Preemptive Multiprocessor Tasks", *Scheduling Algorithms for New Emerging Applications*, Marseille, France, June 2006 (invited).

- C. Oğuz, "A Genetic Algorithm for Hybrid Flow-shop Scheduling with Multiprocessor Tasks", *Invited speaker*, Department of Industrial Engineering, Bosphorus University, İstanbul, Turkey, May 2005.

- C. Oğuz, "Scheduling Multiprocessor Tasks in a Flow-shop Using a Genetic Algorithm", *Invited speaker*, Department of Industrial Engineering, Middle East Technical University, Ankara, Turkey, December 2004.

- C. Oğuz and L. Tang, "A Branch-and-Bound Algorithm for Two-stage Hybrid Flow-shop Scheduling with Multiprocessor Tasks", *INFORMS Annual Meeting*, Denver, U.S.A., October 2004 (invited).

- C. Oğuz, M. Sevaux and A. Jouglet, "Combining Genetic Algorithm with Constraint Programming for a Scheduling Problem", *INFORMS Annual Meeting*, Denver, U.S.A., October 2004 (invited).

- J. Błażewicz, T.C.E. Cheng, M. Machowiak and C. Oğuz, "Berth Allocation as a Moldable Task Scheduling Problem", *Scheduling in Computer and Manufacturing Systems*, Dagstuhl, Germany, June 2004 (invited).

- P. Hansen, N. Mladenović and C. Oğuz, "Variable Neighborhood Search for Minimum Cost Berth Allocation", *Invited speaker*, Institute of Computing Science, Poznań University of Technology, Poznań, Poland, June 2004.

- P. Hansen, N. Mladenović and C. Oğuz, "Variable Neighborhood Search for Minimum Cost Berth Allocation", *Invited speaker*, Institute of Engineering Cybernetics, Wrocław University of Technology, Wrocław, Poland, May 2004.

- C. Oğuz, "Scheduling Multiprocessor Tasks in a Flow-shop Using a Genetic Algorithm", *Invited speaker*, Department of Industrial Engineering, Koç University, Istanbul, Turkey, January 2004.

- C. Oğuz and M.F. Ercan, "A Comparison of Search Algorithms for Scheduling Multiprocessor Tasks", *EURO/INFORMS Joint International Meeting*, Istanbul, Turkey, July 2003 (invited).

- C. Oğuz and M.F. Ercan, "A Genetic Algorithm for a Multiprocessor Task Scheduling Problem", *Invited speaker*, Institute of Computing Science, Poznań University of Technology, Poznań, Poland, July 2003.

- C. Oğuz and M.F. Ercan, "A Genetic Algorithm for a Multiprocessor Task Scheduling Problem", *Invited speaker*, Faculty of Mathematics and Computer Science, Adam Mickiewicz University, Poznań, Poland, July 2003.

- C. Oğuz, "A Comparison of Local Search Algorithms for Scheduling Multiprocessor Tasks", *Invited speaker*, Department of Industrial Engineering and Engineering Management, Hong Kong University of Science and Technology, Hong Kong SAR, April 2003.

- C. Oğuz and M.F. Ercan, "Meta-heuristic Algorithms for Multiprocessor Task Scheduling in Multi-stage Flow-shops", *INFORMS Annual Meeting*, San Jose, U.S.A., November, 2002 (invited).

- C. Oğuz, "A Genetic Algorithm for Flow-shop Scheduling Problems with Multiprocessor Tasks", *Invited speaker*, Department of Mathematics/Computer Science, University of Osnabrück, Germany, June 2002.

- C. Oğuz, "Two-stage Flowshop Scheduling with a Common Second-Stage Machine", *Invited speaker*, Department of Industrial Engineering, Bilkent University, Turkey, July 1996.

- Over 50 other presentations at conferences.

Research Grants:

2013-2015 TÜBİTAK Research Grant
Title: An Integrated Approach to Operational Problems in Bulk Material Terminals
PI: C. Oğuz
Amount: TL180,901 (US$90,450)
Duration: 2 Years.

2011-2013 TÜBİTAK Research Grant
Title: Solution Approaches to Multi Product Lot Streaming Problems in Flow Shops
PI: C. Oğuz, *Co-I:* R. Sancar Edis
Amount: TL86,105 (US$66,235)
Duration: 2 Years. (Successfully completed)

2006-2007 TÜBİTAK Research Grant
Title: Integration of Facility Location and Layout of Intermodal Transportation System with Scheduling
PI: C. Oğuz, *Co-I:* M. Türkay and M. Çancı
Amount: YTL71,577 (US$51,126)
Duration: 15 months. (Successfully completed)

2003-2004 University Grant Council, Competitive Earmarked Research Grant
Title: Models and Exact Algorithms for Berth Allocation Problems
PI: C. Oğuz, *Co-I:* P. Hansen and C-L. Li
Amount: HK$506,447
Duration: 3 Years. (Returned back to the funding body due to relocation of PI.)

2002-2003 The Hong Kong Polytechnic University Internal Competitive Research Grants
Title: Local Search Algorithms for DNA Sequencing
PI: C. Oğuz, *Co-I:* J. Błażewicz
Amount: HK$156,305
Duration: 2 Years. (Successfully completed)

2002-2003 France/Hong Kong Joint Research Scheme Grant
Title: Integrating Constraint Propagation into Meta-heuristic Algorithms for Multiprocessor Task Scheduling
PI: C. Oğuz and M. Sevaux; *Collaborators:* A. Jouglet, Y. Le Quéré, P. Thomin, W.K. Yeung
Amount: HK$32,000
Duration: 2 Years. (Successfully completed)

2001-2002 Germany/Hong Kong Joint Research Scheme Grant
Title: Complex Job-shop Scheduling Problems
PI: P. Brucker and T.C.E. Cheng; *Co-I:* C. Oğuz and C.T. Ng
Amount: HK$12,000
Duration: 1 Year. (Successfully completed).

2001-2002 Australian Research Council, Linkage Project Grant
Title: Optimization of Rail Network Infrastructure Capacity under Dynamic Train Planning
PI: E. Kozan, T. Pettitt, L. Ferreira, I. Dall, C. Oğuz, M. Newman and M. Ross
Amount: A$391,066
Duration: 3 Years. (Successfully completed).

2001-2002 University Grant Council, Competitive Earmarked Research Grant
Title: Multiprocessor Task Scheduling in Manufacturing and Computer Systems
PI: C. Oğuz
Amount: HK$387,248
Duration: 2 Years. (Successfully completed)

2000-2001 The Hong Kong Polytechnic University, Central Research Grant
Title: Scheduling Problems with Multiprocessor Tasks
PI: C. Oğuz
Amount: HK$200,000
Duration: 2 Years. (Successfully completed)

2000-2001 The Hong Kong Polytechnic University, Central Research Grant
Title: Meta-heuristic Approaches for Multiprocessor Task Scheduling
PI: C. Oğuz
Amount: HK$147,389
Duration: 2 Years. (Successfully completed)

1999-2000 The Hong Kong Polytechnic University, Central Research Grant
Title: Algorithms for Scheduling Multiprocessor Tasks in Multi-stage Environments
PI: C. Oğuz
Amount: HK$240,000
Duration: 2 Years. (Successfully completed)

1998-1999 The Hong Kong Polytechnic University, Central Research Grant
Title: Models and Algorithms for Maintenance Scheduling
PI: C. Oğuz, *Co-I:* A.K.S. Jardine
Amount: HK$130,000
Duration: 1 Year. (Successfully completed).

1997-1998 The Hong Kong Polytechnic University, Central Research Grant
Title: Multiprocessor Task Scheduling in a Hybrid Flow-shop: Development of a Genetic Algorithm and its Parallel Implementation
PI: C. Oğuz, *Co-I:* Y.F. Fung
Amount: HK$240,000
Duration: 2 Years. (Successfully completed).

1996-1997 The Hong Kong Polytechnic University, Central Research Grant
Title: Sexual Harassment: A Cross-cultural Investigation of Perceptions and Responses of University Students and Staff
PI: C. Oğuz, *Co-Is:* M.A. Shaffer, T. Lau, J.R.W. Joplin and M.P. Bell
Amount: HK$149,000
Duration: 3 Years. (Successfully completed).

1995-1996 Research Grants Council, Competitive Earmarked Research Grant
Title: Parallel-machine Scheduling with Due Date Based Criteria: Complexity and Algorithms
PI: C. Oğuz, *Co-I:* T.C.E. Cheng
Amount: HK$341,000
Duration: 2 Years (Successfully completed).

1994-1995 The Hong Kong Polytechnic University, Central Research Grant
Title: Machine Scheduling Problems with Compressible Processing Times and Due Dates
PI: C. Oğuz, *Co-I:* T.C.E. Cheng
Amount: HK$233,180
Duration: 1 Year (Successfully completed).

1993-1994 Hong Kong Polytechnic, Research Grant Council direct allocation grant
Title: Machine Scheduling Problems with Earliness and Tardiness Penalties
PI: C. Oğuz, *Co-I:* T.C.E. Cheng
Amount: HK$192,000
Duration: 1 Year (Successfully completed).

Student and Research Supervision:

- Koç University

  - Track Advisor, Supply Chain and Logistics in Industrial Engineering program, 2007-present
  - Successfully supervised 1 Post-doctoral researcher , 2010-2011.
  - Currently supervising 4 Ph.D. and 1 M.Sc. students.
  - Successfully supervised 1 Ph.D. and 16 M.Sc. students, 2005-2015.
  - IEOM Ph.D. qualification examination jury member, 2005-2010, 2012, 2015.
  - PhDIE Committee Member for 1 student, 2009.
  - PhDIE Steering Committee Member for 2 students, 2007-2009, 2009-2011.
  - MSIE Committee Member for 8 students, 2005-2013.

- The Hong Kong Polytechnic University

  - External Examiner for M.Phil., Department of Systems Engineering and Engineering Management, Chinese University of Hong Kong, Hong Kong, 2004.
  - External Examiner for Ph.D., School of Mathematical Sciences, Queensland University of Technology, Australia, 2001.
  - Successfully supervised 1, Ph.D., 1 M.Phil., 8 M.Sc., and 16 BAM(Honours) students,
  - Supervised 3 Research Fellows, 5 Research Associates, and 9 Research Assistants under different research projects.

Awards and Honors:

- Keynote speaker at EURO XXV — 25th European Conference on Operational Research, 2012.

- Advisor, MAG (Engineering Research Group), TÜBİTAK (The Scientific and Technological Research Council of Turkey), 2006-2009.

- Visiting Scholarship, Hong Kong Polytechnic, 1993-1994.

- Selected by the National OR Society of Turkey for EURO Summer Institute VI, 1989.

- Research Assistantship, Bilkent University, 1986-1993.

Professional Activities:

- Editorial and administrative duties:

  - Jury member, Promotion to Associate Professorship for Council of Higher Education Turkey, 2012-present.
  - Secretary and treasurer, EURO Working Group on the Operational Research in Computational Biology, Bioinformatics and Medicine, 2006-present.
  - Guest editor for Journal of Scheduling, 2008.
  - Member, Working Group for INFORMS Hong Kong International Chapter, January 2003-September 2004.

- Conference Organizations:

  - Program and Organizing Committee member, Mini EURO Conference on Computational Biology, Bioinformatics and Medicine, Istanbul, Turkey, 21–24 August 2016.
  - Scientific Advisory Board member, GJCIE 2016, Global Joint Conference on Industrial Engineering and Its Appliation Areas, Istanbul, Turkey, 14–15 July 2016.
  - Program Committee member, CIPLS 2015, IEEE Symposium on Computational Intelligence in Production and Logistics Systems, Cape Town, South Africa., 7–10 December 2015.
  - Program Committee member, LOGMS 2015, 5th International Conference on Logistics and Maritime Systems, Hong Kong, 27–29 August 2015.
  - Program Committee member, CIPLS 2014, IEEE Symposium on Computational Intelligence in Production and Logistics Systems, Orlando, U.S.A., 9–12 December 2014.
  - Program Committee member, 34th National Operations Research and Industrial Engineering Congress (YAEM 2014), Bursa, Turkey, 25–27 June 2014.
  - Program Committee member, Mini EURO Conference on Computational Biology, Bioinformatics and Medicine, Poznan, Poland, 26–29 June 2014.
  - Program Committee member, ICORES 2014, 3rd International Conference on Operation Research and Enterprise Systems, Angers, France, 6–8 March 2014.
  - Program Committee member, LOGMS 2013, International Conference on Logistics and Maritime Systems, Singapore, 12–14 September 2013.
  - Program Committee member, International IIE Conference and 33rd National Operations Research and Industrial Engineering Congress (YAEM 2013), Istanbul, 26–28 June 2013.
  - Program Committee member, CIPLS 2013, IEEE Workshop on Computational Intelligence in Production and Logistics Systems, Singapore, 16–19 April 2013.
  - Program Committee member, ICORES 2013, 2nd International Conference on Operation Research and Enterprise Systems, Barcelona, Spain, 16–18 February 2013.
  - Program Committee member, LOGMS 2012, International Conference on Logistics and Maritime Systems, Bremen, Germany, 22–24 August 2012.
  - Program Committee member, ICORES 2012, 1st International Conference on Operation Research and Enterprise Systems, Algarve, Portugal, 4–6 February 2012.
  - Program Committee member, IFORS 2011, 19th Triennial Conference of the International Federation of Operational Research Societies, Melbourne, Australia, 10–15 July 2011.
  - Program Committee member, CIPLS 2011, IEEE Workshop on Computational Intelligence in Production and Logistics Systems, Paris, France 11–15 April 2011.
  - Program Committee member, LOGMS 2010, First International Conference on Logistics and Maritime Systems, Busan, Korea, 15–17 September 2010.
  - Program Committee member, The 4th Multidisciplinary International Conference on Scheduling: Theory and Applications (MISTA 2009), Dublin, Ireland, 10–12 August 2009.
  - Advisory Board member, 29th National Operations Research and Industrial Engineering Congress (YAEM 2009), Bilkent University, Ankara, 22–24 June 2009.

- Program Committee member, Mini EURO Conference on Computational Biology, Bioinformatics and Medicine, Rome, Italy, 15–17 September 2008.
- Program Committee member, The 3rd Multidisciplinary International Conference on Scheduling: Theory and Applications (MISTA 2007), Paris, France, 28–31 August 2007.
- Program Committee member, EURO-CBBM Workshop on OR in Computational Biology, Bioinformatics and Medicine, Prague, Czech Republic, 8 July 2007.
- Program Committee member, 8th Workshop on Models and Algorithms for Planning and Scheduling Problems, İstanbul, Turkey, 2–6 July 2007.
- Organizing Committee chair, 8th Workshop on Models and Algorithms for Planning and Scheduling Problems, İstanbul, Turkey, 2–6 July 2007.
- Program Committee member, 18th Mini EURO Conference on Variable Neighborhood Search, Tenerife, Spain, 23–25 November 2005.
- Organizing Committee member, 25th Operational Research / Industrial Engineering (OR/IE) National Congress of Turkey, İstanbul, Turkey, 4–6 July 2005.
- Organizing Committee member, Symposium on E-Business: Promises and Limitations, Hong Kong SAR, October, 2002.
- Organizing Committee member, National Operations Research Conference XII, Ankara, Turkey, June 1989.

- Stream, session and panel organizations:

  - Stream organizer (invited), XXVI EURO INFORMS Joint International Conference, Rome, Italy, 1–4 July 2013.
  - Stream organizer (invited), EURO XXV — 25th European Conference on Operational Research, Vilnius, Lithuania, 8–11 July 2012.
  - Stream organizer (invited), ECCO XXV — 25th Conference of European Chapter on Combinatorial Optimization, Antalya, Turkey, 26 – 28 April 2012.
  - Stream organizer (invited), IFORS 2011 — 19th Triennial Conference of the International Federation of Operational Research Societies, Melbourne, Australia, 10–15 July 2011.
  - Stream organizer (invited), EURO XXIV — 24th European Conference on Operational Research, Lisbon, Portugal, 11–14 July 2010.
  - Session organizer (invited) and chair, EURO XXIII — 23rd European Conference on Operational Research, Bonn, Germany, 5–8 July 2009.
  - Session chair, 9th Workshop on Models and Algorithms for Planning and Scheduling Problems, Abbey Rolduc, The Netherlands, 29 June–3 July 2009.
  - Panel member, Workshop on Women in Industrial Engineering Academia Ankara, Turkey, 7–11 July 2008.
  - Session organizer and chair, EURO XXII — 22nd European Conference on Operational Research, Prague, Czech Republic, 8–11 July 2007.
  - Session chair, EURO XXI — 21st European Conference on Operational Research, Reykjavik, Iceland, 2–5 July, 2006.
  - Session chair, Seventh Workshop on Models and Algorithms for Planning and Scheduling Problems, Siena, Italy, June 2005.
  - Session chair, Ninth International Workshop on Project Management and Scheduling, Nancy, France, April 2004.
  - Cluster chair (invited) for EURO/INFORMS Joint International Meeting, Istanbul, Turkey, July 2003.
  - Session chair, Sixth Workshop on Models and Algorithms for Planning and Scheduling Problems, Aussois, France, April 2003.
  - Session organizer (invited), INFORMS International Conference, Hawaii, U.S.A., June 2001.
  - Session chair, IEEE International Conference on Intelligent Processing Systems, Beijing, P.R.C., October 1997.
  - Session chair, 21st International Conference on Computers and Industrial Engineering, San Juan, Puerto Rico, U.S.A., March 1997.

- Referee for 30+ scholarly journals.

Contributions to Koç University:

1. <u>University Level</u>

   (a) Head of Department of Industrial Engineering (2013-present).

   (b) Member of the Engineering Faculty Administrative Committee (2013-present)

   (c) Member of the Faculty Search Committee for INDR (2014-present)

   (d) Coordinator of IEOM Graduate Program (2008-2011).

   (e) Member of IEOM Graduate Program Admissions Committee (2007-2011).

   (f) Coordinator and Member of IEOM Ph.D. Qualification Committee (2005-2010).

   (g) Member of the Public Relations Steering Committee (2008-2010).

   (h) Member of the Library Advisory Board (2006-2011).

   (i) Member of the Engineering Faculty Administrative Committee (2008-2010).

   (j) Member of the Engineering Faculty Board (2006-2010).

   (k) Member of the University Disciplinary Committee (2006-2009).

2. <u>Departmental Level</u>

   (a) Track Advisor, Supply Chain and Logistics in Industrial Engineering program (2007-present).

   (b) Introducing Industrial Engineering to high school students (2004, 2006, 2007, 2008, 2011, 2013, 2014).

   (c) Opening speech for KUEMT (2006).

   (d) Coordinator of INDR590 seminar course for IEOM Graduate Program (2005-2007).

Contributions to the Hong Kong Polytechnic University:

1. <u>University Level</u>

   (a) Appointed by PolyU President as a Member of the Working Group on Restructuring of FBIS (2001-2003).

2. <u>Faculty Level</u>

   (a) Elected Member of Faculty Board of FB (2003-2005).

   (b) Appointed by FBIS Dean as a Member of the Task Force for Rationalization of Programmes in FBIS and elected as the Chairperson (1999-2000).

   (c) Elected Member of Faculty Board of FBIS (1999-2003).

   (d) Departmental representative of 65th Anniversary Celebration (2001-2002).

3. <u>Departmental Level</u>

   (a) Award Co-ordinator of MSc in Business and Management (Operations Management) (2001-2004).

   (b) Programme Committee member of MSc in Strategic Purchasing and Supply Management (2003-2004).

   (c) Programme Committee member of BSc (Hons) in Surveying and Geo-Informatics (2000-2004).

   (d) Timetabling Officer, and then Co-ordinator (1996-2003).

   (e) Programme Committee member of BAM(Honors)-OM (1996-2003).

   (f) Award Co-ordinator of BAM(Honors)-with a specialism in Operations (1997-2000).

   (g) Course Leader for BA(Honors) in Operations Management (1997-1999)

   (h) Deputy Course Leader for BA(Honors) in Operations Management (1996-1997).

   (i) Extra-departmental examiner for different departments (1996-2000).

   (j) Member, Award Dissertation Committee (MSc in Quality Management) (1996-1997).

   (k) Member, Faculty Library Committee (1995-1997).

Professional Affiliations:

Member, EWG CBBM — EURO Working Group on the Operational Research in Computational Biology, Bioinformatics and Medicine;
Member, EU/ME: The European Chapter on Metaheuristics, EURO Working Group;
Member, Institute for Operations Research and the Management Sciences, USA;
Member, The Operations Research Society of Turkey;
Member, The Operational Research Society of Hong Kong;
Member, The Institute of Industrial Engineers, USA;

October 2015