Prof. İHSAN SABUNCUOĞLU

Personal Information

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Biography

Prof. Dr. İhsan Sabuncuoğlu Abdullah Gül Üniversitesinin kurucu rektörü olarak görev yapmaktadır.

Lisans ve Yüksek Lisans derecelerini sırasıyla 1982 ve 1984'te Ortadoğu Teknik Üniversitesinde Endüstri Mühendisliği alanında yapmıştır. Doktora derecesini 1990 yılında ABD'de Wichita State Üniversitesinde Endüstri Mühendisliği alanında yapmıştır.

Prof. Dr. Sabuncuoğlu doktora çalışmaları esnasında ABD'de Boeing, Pizza Hut ve The National Institute of Health'te çalışmıştır. 2013 yılına kadar Türkiye'nin ilk özel ve kâr amacı gütmeyen üniversitesi olan Bilkent Üniversitesinde tam zamanlı öğretim üyesi olarak görev yapmıştır. Aynı zamanda ABD'de Carnegie Mellon Üniversitesinde ve Fransa'da Institut Français de Mécanique Avancée (IFMA)'de misafir öğretim üyesi pozisyonlarında bulunmuştur.

Araştırma alanları arasında gerçek zamanlı çizelgeleme, simülasyon tabanlı optimizasyon, akıllı üretim sistemleri, kanser görüntüleme ve güdümlü farmasötik sistemler bulunmaktadır. Araştırmaları TÜBİTAK ve EUREKA (İleri Teknolojiler Alanındaki Şirketler ve Araştırma Kurumları Arasındaki İş birlikleri Vasıtasıyla Avrupa Rekabetçiliğini Teşvik Etme Avrupa-Çapında Girişimi) tarafından fonlanmıştır. Prof. Dr. Sabuncuoğlu ayrıca havacılık, otomotiv ve askeri savunma sistemleri konularında önemli sanayi tecrübesine sahiptir. Araştırma projelerine birçok ulusal ve uluslararası şirket tarafından sponsorluk desteği verilmiştir. 28 yıllık kariyeri boyunca Türkiye'deki çok sayıda organizasyon ve kuruluşa danışmanlık hizmeti vermiştir.

Bilimsel çalışmalarıyla uluslararası dergilerde yüzden fazla bilimsel makale, konferans bildirisi ve beş tane editörlü kitap üreten Prof. Dr. Sabuncuoğlu, endüstri mühendisliği ve yöneylem araştırması alanlarında yayın yapan pek çok bilimsel derginin de editörler kurulunda yer almaktadır. Endüstri Mühendisliği Enstitüsü, Yöneylem Araştırması Enstitüsü, Yönetim Bilimleri ve Simülasyon Topluluğu üyesidir. Ayrıca Endüstri Mühendisliği Konseyinde (CIEADH) ve çeşitli diğer mesleki ve sosyal komitelerde üyelikleri bulunmaktadır.

Prof. Dr. Sabuncuoğlu çeşitli idari ve yönetimsel pozisyonlarda 20 yıldan fazla deneyime sahiptir. Bilkent Üniversitesi'nin kurucu ekibinin bir üyesi olarak birçok kuruluşun idari komitesinde çalışmış ve aynı zamanda Endüstri Mühendisliği (IE) Bölümü'nün bölüm başkanlığı görevini yapmıştır. Bölüm başkanlığı sırasında, Endüstri Mühendisliği lisans programı ABET akreditasyonu almış ve Bilkent Üniversitesi tarihte ABET akreditasyonuna sahip Amerikan kökenli olmayan ilk

kuruluş olmuştur. Daha sonra Bilkent Üniversitesinde üniversite-sanayi iş birliği merkezini kurmuş ve 2013'te Abdullah Gül Üniversitesine geçinceye kadar merkezin kurucu direktörü olarak görev yapmıştır.

Abdullah Gül Üniversitesi (AGÜ) 2013 yılında Prof. Dr. İhsan Sabuncuoğlu'nun liderliğinde kurulmuştur. Türk Yükseköğretim Sistemindeki devlet ve vakıf üniversitelerinin ilk karma modelidir. Kurumun genç yaşına rağmen AGÜ halen, Türkiye Yenilikçi ve Girişimci Üniversiteler Endeksinde (200'den fazla üniversite arasında) 12. sırada yer almaktadır. URAP (Akademik Performansa Göre Üniversite Sıralaması)'a göre AGÜ halihazırda Türkiye'de son 20 yılda kurulan 70 üniversite arasında 2. sıradadır.

AGÜ'nün katkısı, Birleşmiş Milletlerin sürdürülebilir kalkınma hedefleri göz önüne alınarak yapılan sıralamada dünya çapında en etkili 101-200 üniversite içerisinde derecelendirilmesi ve İlk 200'deki en genç üniversite olması sebebiyle uluslararası alanda da tanınmaktadır. Toplumsal Etki hedefini yenilikçi üniversite tasarımının en önemli unsuru olarak tanımlayan AGÜ, "Sürdürülebilir Şehir ve Yaşam Alanları" alt kategorisinde yapılan sıralamada ise büyük bir başarıya imza atarak bütün dünya üniversiteleri arasında 4. olmuştur. AGÜ'nün başarı gösterdiği diğer kategoriler ise İklim (32. sıra) ve Eşitsizliklerin Azaltılması (58. sıra) olarak listelenmiş; toplam 11 alt kategoride yapılan değerlendirmede AGÜ, Nitelikli Eğitim de dahil olmak üzere 4 farklı kategoride Türkiye üniversiteleri arasında en yüksek puanı elde etmiştir.

Prof. Dr. Sabuncuoğlu araştırmalarını global dünyada kurumsal değişimler ve yükseköğretim sistemlerinin yeniden organizasyonu konularında gerçekleştirmektedir. Özellikle, "3. Nesil Üniversite" olarak adlandırılan yeni bir üniversite konseptinin geliştirilmesiyle ilgili çalışmalar yapmaktadır. Bu yeni üniversite modelinin geliştirilmesi için tüm dünyadaki üniversiteler, endüstriler, STK'lar ve kamu kuruluşlarından 700'ün üzerinde kişinin aktif katılımlarıyla 30'dan fazla arama konferansı organize etmiştir.

Prof. Dr. Sabuncuoğlu kıymetli deneyimlerini ve fikirlerini paylaşmak amacıyla düzenli olarak dünyada tanınmış pek çok ulusal ve uluslararası zirveye konuşmacı olarak davet edilmektedir. Bunların arasında *Times Higher Education Genç Üniversiteler Zirvesi* (Orlando, ABD, 2018), *Times Higher Education Yükselen Ekonomiler Zirvesi* (Rabat, Fas, 2018), *EDUCON ASIA Yükseköğretim Zirvesi* (Singapur, 2017), *IAU Uluslararası Konferansı* (Akra, Gana, 2017), *UIIN Üniversite – Endüstri Etkileşim Konferansı* (Londra, 2018) ve *Hansa Birliği Üniversiteleri Konferansı* (Seul, Güney Kore, 2019) yer almaktadır.

Education Information

Doctorate, Wichita State University, Department of Industrial Engineering, United States Of America 1985 - 1989
Postgraduate, Middle East Technical University, Faculty Of Engineering, Department Of Industrial Engineering, Turkey 1982 - 1984
Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Industrial Engineering, Turkey 1977 - 1982

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Expert simulation systems. Recent developments and applications in flexible manufacturing systems, Wichita State University, 1990
Postgraduate, Design And Analysis Of Lot Sizing Techniques For An MRP System, Middle East Technical University, Faculty Of Engineering, Department Of Industrial Engineering, 1984

Research Areas

Industrial Engineering , Stochastic Modeling, Optimization Theory and Methods, Simulation, Production Planning and Control, Quality and Reliability, Strategic planning, Supply Chain and Logistics Management, Engineering and Technology

Academic Titles / Tasks

Professor, Abdullah Gul University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2013 - Continues
Professor, Ihsan Dogramaci Bilkent University, Faculty Of Engıneerıng, Department Of Industrıal Engıneerıng, 2002 - 2012
Associate Professor, Ihsan Dogramaci Bilkent University, Faculty Of Engıneerıng, 1993 - 2002
Assistant Professor, Ihsan Dogramaci Bilkent University, Faculty Of Engıneerıng, Department Of Industrıal Engıneerıng, 1990 - 1993
Assistant Professor, Wichita State University, 1989 - 1990
Research Assistant, Wichita State University, 1985 - 1989
Research Assistant, Middle East Technical University, Faculty Of Engineering, Department Of Industrial Engineering, 1983 - 1985

Academic and Administrative Experience

Rector, Abdullah Gul University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2013 - Continues
Head of Department, Ihsan Dogramaci Bilkent University, Faculty Of Engıneerıng, Department Of Industrıal Engıneerıng, 2002 - 2013

Advising Theses

Sabuncuoğlu İ., A simulation model for breast cancer epidemiology in Turkey, Postgraduate, K.ADA(Student), 2014
Sabuncuoğlu İ., Analysis of the in-vitro nanoparticle-cell interactions via support vector regression model, Postgraduate, N.MUHAMMED(Student), 2013
Sabuncuoğlu İ., Analysis of the in-vitro nanoparticle-cell interactions via smoothing splines mixed effects model, Postgraduate, E.DOĞRUÖZ(Student), 2013
Sabuncuoğlu İ., Integration of production, transportation, and inventory decisions in supply chains, Doctorate, U.KOÇ(Student), 2012
Sabuncuoğlu İ., Hiyerarşik yapılı büyük organizasyonlarda düşük maliyetli kurs planlaması için matematiksel model önerisi, Doctorate, L.KARAMALAK(Student), 2012
Sabuncuoğlu İ., Analysis of a hospital call center, Postgraduate, E.EZGİ(Student), 2012
Sabuncuoğlu İ., Artificial neural networks modeling and simulation of the in-vitro nanoparticle-cell interactions, Postgraduate, N.CENK(Student), 2012
Sabuncuoğlu İ., Generating robust and stable machine schedules from a proactive standpoint, Doctorate, S.GÖREN(Student), 2009
Sabuncuoğlu İ., A multi-modal discrete-event simulation model for military deployment, Doctorate, U.ZİYA(Student), 2009
Sabuncuoğlu İ., Prescription fraud detection via data mining: A methodology proposal, Postgraduate, K.DURU(Student),

2009
Sabuncuoğlu İ., Coordination of pricing and production-scheduling decisions in supply chains, Postgraduate, M.MISIRCI(Student), 2008
Sabuncuoğlu İ., New solution methods for single machine bicriteria scheduling problem: Minimization of average flowtime and number of tardy jobs, Postgraduate, F.SAFA(Student), 2006
Sabuncuoğlu İ., A learning-based scheduling system with continuous control and update structure, Postgraduate, G.METAN(Student), 2005
Sabuncuoğlu İ., Auction based scheduling for distributed systems, Postgraduate, E.ZARİFOĞLU(Student), 2005
Sabuncuoğlu İ., Inquiring the main assumption of the assembly line balancing problem: Solution procedures using AND/OR graph, Postgraduate, A.KOÇ(Student), 2005
Sabuncuoğlu İ., Beam search algorithms for the mixed-model assembly line sequencing, Postgraduate, Y.GÖÇGÜN(Student), 2005
Sabuncuoğlu İ., Ant colony optimization for the model U-type assembyl line balancing problem, Postgraduate, A.ALP(Student), 2004
Sabuncuoğlu İ., Simulation modeling and analysis of messaging systems of a mechanized infantry brigade, Postgraduate, İ.CAN(Student), 2003
Sabuncuoğlu İ., Tabu search with fully sequential procedure for simulation optimization, Postgraduate, S.ÇEVİK(Student), 2003
Sabuncuoğlu İ., Analysis of variance reduction techniques in various systems, Postgraduate, S.ÇELİK(Student), 2003
Sabuncuoğlu İ., Balancing straight and U type assembly lines with stochastic process times, Postgraduate, H.ŞEKERCİ(Student), 2003
Sabuncuoğlu İ., Evaluation of army corps food supply system using simulation, Postgraduate, O.PEMBE(Student), 2002
Sabuncuoğlu İ., Modeling and analysis of movement of a Turkish Armored Battalion to mobilization task area using simulation, Postgraduate, B.ÜREK(Student), 2002
Sabuncuoğlu İ., Evaluation of ammunition and fuel supply systems of a Turkish Armored Battalion during mobilization and deployment using simulation, Postgraduate, A.ÖZÇEVİK(Student), 2002
Sabuncuoğlu İ., Robustness and stability measures for scheduling policies in a single machine environment, Postgraduate, S.GÖREN(Student), 2002
Sabuncuoğlu İ., Simulation modeling and analysis of border security system, Postgraduate, G.ÇELİK(Student), 2002
Sabuncuoğlu İ., Modeling and analysis of personnel mobilization and completion system via simulation, Postgraduate, L.KARAMALAK(Student), 2001
Sabuncuoğlu İ., The Behavior of transient period of nonterminating simulations: An experimental analysis, Postgraduate, B.SANDIKÇI(Student), 2001
Sabuncuoğlu İ., Modelling and optimization of Turkish Army fuel supply systemvia simulation, Postgraduate, A.HATİP(Student), 2001
Sabuncuoğlu İ., Modeling and analysing air assault operations via simulation, Postgraduate, G.VİRLAN(Student), 2001
Sabuncuoğlu İ., Parameter selection for genetic algorithm-based simulation optimization, Postgraduate, O.BOYABATLI(Student), 2001
Sabuncuoğlu İ., Evaluation of mobilization and deployment plan of a Turkish armoured battalion via simulation, Postgraduate, S.MÜSLÜM(Student), 2001
Sabuncuoğlu İ., Analysis of scheduling problems in dynamic and stochastic FMS environment comparison of rescheduling policies, Postgraduate, Ö.BATUHAN(Student), 2001
Sabuncuoğlu İ., Simulation of casualty evacuation of brigade in defence operation, Postgraduate, Ö.NUHUT(Student), 2000
Sabuncuoğlu İ., Modelling and optimisation of Turkish army STH level renovation maintenance system via simulation, Postgraduate, R.ALİ(Student), 2000
Sabuncuoğlu İ., Distributed scheduling, Postgraduate, A.TOPTAL(Student), 1999
Sabuncuoğlu İ., Analyses of serial production lines and assembly systems for throughtput and interdeparture time variability, Postgraduate, A.GÜRHAN(Student), 1998
Sabuncuoğlu İ., A Re-examination of the effectiveness of priority rules in a dynamic job shop environment, Postgraduate, T.LEJMİ(Student), 1997

Sabuncuoğlu İ., Simulation metamodeling with neural networks, Postgraduate, S.TAVHAMİ(Student), 1997
Sabuncuoğlu İ., Assembly line balancing using genetic algorithms, Postgraduate, M.TANYER(Student), 1997
Sabuncuoğlu İ., Analysis of reactive scheduling problems in manufacturing systems, Postgraduate, M.BAYIZ(Student), 1997
Sabuncuoğlu İ., A Comparison of the aggregation and disaggretion task allocation approches in a random flexible manufacturing system, Postgraduate, M.LAHMAR(Student), 1997
Sabuncuoğlu İ., Job shop scheduling under dynamic and stochastic manufacturing environment, Postgraduate, E.KUTANOĞLU(Student), 1995
Sabuncuoğlu İ., An Analysis of order review/release problems in a job shop, Postgraduate, H.YAVUZ(Student), 1995
Sabuncuoğlu İ., An Analysis of fms scheduling problem : A beam search based algorithm and comparision of scheduling schemes, Postgraduate, S.KARABÜK(Student), 1994
Sabuncuoğlu İ., Scheduling with artifical neural networks, Postgraduate, B.GÜRGÜN(Student), 1993

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Modified self-adaptive local search algorithm for a biobjective permutation flow shop scheduling problem**
ALABAŞ USLU Ç., Dengiz B., Aglan C., SABUNCUOĞLU İ.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.27, no.4, pp.2730-2745, 2019 (SCI-Expanded)

II. **EXPECTED AND ACTUAL REIMBURSEMENT BASED ON CLINICAL PRACTICE GUIDELINE RECOMMENDATIONS IN TURKEY**
Em K. O. C., Kahveci R., Tibet B., Sozmen M. K., Sabuncuoglu İ., Karadayi B.
VALUE IN HEALTH, vol.21, 2018 (SCI-Expanded)

III. **Coordination of inbound and outbound transportation schedules with the production schedule**
Koc U., Toptal A., SABUNCUOĞLU İ.
COMPUTERS & INDUSTRIAL ENGINEERING, vol.103, pp.178-192, 2017 (SCI-Expanded)

IV. **Analysis of the in vitro nanoparticle-cell interactions via a smoothing-splines mixed-effects model**
Dogruoz E., DAYANIK S., Budak G., SABUNCUOĞLU İ.
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.44, no.3, pp.800-810, 2016 (SCI-Expanded)

V. **A mathematical model proposal for cost-effective course planning in large hierarchical organizations**
Karamalak L., SABUNCUOĞLU İ., Ozkil A.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.238, no.2, pp.579-595, 2014 (SCI-Expanded)

VI. **A joint production and transportation planning problem with heterogeneous vehicles**
Toptal A., Koc U., Sabuncuoglu İ.
JOURNAL OF THE OPERATIONAL RESEARCH SOCIETY, vol.65, no.2, pp.180-196, 2014 (SCI-Expanded)

VII. **Artificial Neural Network Modeling and Simulation of In-Vitro Nanoparticle-Cell Interactions**
Cenk N., Budak G., Dayanik S., SABUNCUOĞLU İ.
JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE, vol.11, no.1, pp.272-282, 2014 (SCI-Expanded)

VIII. **A class of joint production and transportation planning problems under different delivery policies**
Koc U., Toptal A., Sabuncuoglu I.
OPERATIONS RESEARCH LETTERS, vol.41, no.1, pp.54-60, 2013 (SCI-Expanded)

IX. **A prescription fraud detection model**
Aral K. D., Guvenir H. A., Sabuncuoglu I., Akar A. R.
COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE, vol.106, no.1, pp.37-46, 2012 (SCI-Expanded)

X. **Optimization of Schedule Stability and Efficiency Under Processing Time Variability and Random Machine Breakdowns in a Job Shop Environment**
Goren S., Sabuncuoglu I., Koc U.
NAVAL RESEARCH LOGISTICS, vol.59, no.1, pp.26-38, 2012 (SCI-Expanded)

XI. **Modeling and analyzing army air assault operations via simulation**

Sabuncuoglu I., Virlan G.
SIMULATION-TRANSACTIONS OF THE SOCIETY FOR MODELING AND SIMULATION INTERNATIONAL, vol.87, no.11, pp.1002-1014, 2011 (SCI-Expanded)

XII. **Hybrid Petri-nets for modelling and performance evaluation of supply chains**
Khilwani N., Tiwari M. K., Sabuncuoglu I.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.49, no.15, pp.4627-4656, 2011 (SCI-Expanded)

XIII. **Optimization of schedule robustness and stability under random machine breakdowns and processing time variability**
Goren S., Sabuncuoglu I.
IIE Transactions (Institute of Industrial Engineers), vol.42, no.3, pp.203-220, 2010 (SCI-Expanded)

XIV. **New solution methods for single machine bicriteria scheduling problem: Minimization of average flowtime and number of tardy jobs**
Erenay F. S., Sabuncuoglu I., Toptal A., Tiwari M. K.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.201, no.1, pp.89-98, 2010 (SCI-Expanded)

XV. **Real time selection of scheduling rules and knowledge extraction via dynamically controlled data mining**
Metan G., Sabuncuoglu I., Pierreval H.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.48, no.23, pp.6909-6938, 2010 (SCI-Expanded)

XVI. **Distributed scheduling: a review of concepts and applications**
Toptal A., Sabuncuoglu I.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.48, no.18, pp.5235-5262, 2010 (SCI-Expanded)

XVII. **Ant colony optimization for the single model U-type assembly line balancing problem**
Sabuncuoglu I., Erel E., Alp A.
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, vol.120, no.2, pp.287-300, 2009 (SCI-Expanded)

XVIII. **A multi-modal discrete-event simulation model for military deployment**
Yidirim U. Z., Tansel B. C., Sabuncuoglu I.
SIMULATION MODELLING PRACTICE AND THEORY, vol.17, no.4, pp.597-611, 2009 (SCI-Expanded)

XIX. **Hedging production schedules against uncertainty in manufacturing environment with a review of robustness and stability research**
Sabuncuoglu I., Goren S.
International Journal of Computer Integrated Manufacturing, vol.22, no.2, pp.138-157, 2009 (SCI-Expanded)

XX. **Process planning and scheduling for distributed manufacturing**
Sabuncuoglu I., Karpat Y.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.47, no.4, pp.1151-1152, 2009 (SCI-Expanded)

XXI. **Two exact formulations for disassembly line balancing problems with task precedence diagram construction using an AND/OR graph**
Koc A., Sabuncuoglu I., Erel E.
IIE TRANSACTIONS, vol.41, no.10, pp.866-881, 2009 (SCI-Expanded)

XXII. **Variance reduction techniques: Experimental comparison and analysis for single systems**
Sabuncuoglu I., Fadiloglu M. M., Celik S.
IIE TRANSACTIONS, vol.40, no.5, pp.538-551, 2008 (SCI-Expanded)

XXIII. **Backtracking and exchange of information: Methods to enhance a beam search algorithm for assembly line scheduling**
Sabuncuoglu I., Gocgun Y., Erel E.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.186, no.3, pp.915-930, 2008 (SCI-Expanded)

XXIV. **Robustness and stability measures for scheduling: Single-machine environment**
Goren S., Sabuncuoglu I.
IIE Transactions (Institute of Industrial Engineers), vol.40, no.1, pp.66-83, 2008 (SCI-Expanded)

XXV. **Simulation modelling and analysis of a border security system**
Celik G., Sabuncuoglu I.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.180, no.3, pp.1394-1410, 2007 (SCI-Expanded)

XXVI. **Mixed-model assembly line sequencing using beam search**
Erel E., Gocgunz Y., Sabuncuoglu I.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.45, no.22, pp.5265-5284, 2007 (SCI-Expanded)

XXVII. **Analysis of the behavior of the transient period in non-terminating simulations**
Sandikci B., Sabuncuoglu I.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.173, no.1, pp.252-267, 2006 (SCI-Expanded)

XXVIII. **Analysis of serial production lines: characterisation study and a new heuristic procedure for optimal buffer allocation**
Sabuncuoglu İ., Erel E., Gocgun Y.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.44, no.13, pp.2499-2523, 2006 (SCI-Expanded)

XXIX. **The Turkish Army uses simulation to model and optimize its fuel-supply system**
Sabuncuoglu İ., Hatip A.
INTERFACES, vol.35, no.6, pp.474-482, 2005 (SCI-Expanded)

XXX. **Stochastic assembly line balancing using beam search**
Erel E., Sabuncuoglu İ., Sekerci H.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.43, no.7, pp.1411-1426, 2005 (SCI-Expanded)

XXXI. **Evaluation of mobilization and deployment plan of an armored battalion**
Muslum S., Sabuncuoglu İ.
MILITARY OPERATIONS RESEARCH, vol.10, no.1, pp.43-62, 2005 (SCI-Expanded)

XXXII. **Simulation optimization: A comprehensive review on theory and applications**
Tekin E., Sabuncuoglu İ.
IIE TRANSACTIONS, vol.36, no.11, pp.1067-1081, 2004 (SCI-Expanded)

XXXIII. **Reactive scheduling in a dynamic and stochastic FMS environment**
Sabuncuoglu İ., Kizilisik O.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.41, no.17, pp.4211-4231, 2003 (SCI-Expanded)

XXXIV. **An evaluative study of operation grouping policies in an FMS**
Sabuncuoglu İ., Lahmar M.
INTERNATIONAL JOURNAL OF FLEXIBLE MANUFACTURING SYSTEMS, vol.15, no.3, pp.217-239, 2003 (SCI-Expanded)

XXXV. **Operation-based flowtime estimation in a dynamic job shop**
Sabuncuoglu İ., Comlekci A.
OMEGA-INTERNATIONAL JOURNAL OF MANAGEMENT SCIENCE, vol.30, no.6, pp.423-442, 2002 (SCI-Expanded)

XXXVI. **Simulation analysis of army casualty evacuations**
Nuhut O., Sabuncuoglu İ.
SIMULATION-TRANSACTIONS OF THE SOCIETY FOR MODELING AND SIMULATION INTERNATIONAL, vol.78, no.10, pp.612-625, 2002 (SCI-Expanded)

XXXVII. **Simulation metamodelling with neural networks: an experimental investigation**
Sabuncuoglu İ., Touhami S.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.40, no.11, pp.2483-2505, 2002 (SCI-Expanded)

XXXVIII. **Effect of load, processing time and due date variation on the effectiveness of scheduling rules**
Lejmi T., Sabuncuoglu İ.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.40, no.4, pp.945-974, 2002 (SCI-Expanded)

XXXIX. **Analysis of assembly systems for interdeparture time variability and throughput**
Sabuncuoglu İ., Erel E., Kok A.
IIE TRANSACTIONS, vol.34, no.1, pp.23-40, 2002 (SCI-Expanded)

XL. **Balancing of U-type assembly systems using simulated annealing**
Erel E., Sabuncuoglu İ., Aksu B.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.39, no.13, pp.3003-3015, 2001 (SCI-Expanded)

XLI. **Routing-based reactive scheduling policies for machine failures in dynamic job shops**
Kutanoglu E., Sabuncuoglu İ.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.39, no.14, pp.3141-3158, 2001 (SCI-Expanded)

XLII. **An efficient algorithm for the single machine total tardiness problem**
Tansel B., Kara B., Sabuncuoglu İ.
IIE TRANSACTIONS, vol.33, no.8, pp.661-674, 2001 (SCI-Expanded)

XLIII. **Experimental investigation of iterative simulation-based scheduling in a dynamic and stochastic job shop**
Kutanoglu E., Sabuncuoglu İ.
JOURNAL OF MANUFACTURING SYSTEMS, vol.20, no.4, pp.264-279, 2001 (SCI-Expanded)

XLIV. **Analysis of reactive scheduling problems in a job shop environment**
Sabuncuoglu İ., Bayiz M.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.126, no.3, pp.567-586, 2000 (SCI-Expanded)

XLV. **Assembly line balancing using genetic algorithms**
Sabuncuoglu İ., Erel E., Tanyer M.
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Metrics

Publication: 98
Citation (WoS): 1892
Citation (Scopus): 2363
H-Index (WoS): 26
H-Index (Scopus): 28

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The 2nd Conference of Hanseatic League of Universities, Invited Speaker, Incheon, South Korea, 2019
TIMES Higher Education Young Universities Summit 2018, Invited Speaker, Florida, United States Of America, 2018
IAU 2017 International Association of Universities Conference, Invited Speaker, Accra, Ghana, 2017
2nd International Higher Education Studies Conference, Invited Speaker, Antalya, Turkey, 2017
2017 EDUCON ASIA Higher Education Summit, Invited Speaker, Singapore, Singapore, 2017
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UMTIK 2008- International Machine Design and Production Conference, Invited Speaker, İstanbul, Turkey, 2008