# Asst. Prof. ALKIN YURTKURAN

## Personal Information

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## Education Information

Doctorate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Endüstri Mühendisliği (Dr), Turkey 2009 - 2014
Postgraduate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Endüstri Mühendisliği (Yl) (Tezli), Turkey 2006 - 2009
Undergraduate, Anadolu University, Faculty Of Business Administration, Department Of Business, Turkey 2004 - 2007
Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Environmental Engineering, Turkey 2001 - 2006

## Foreign Languages

English, C2 Mastery

## Dissertations

Doctorate, Elektromanyetik algoritmanın karşılaştırmalı analizi ve geliştirilmesi, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Endüstri Mühendisliği (Dr), 2014
Postgraduate, Araç rotalama problemlerinin çözümü için yeni bir meta-sezgisel yaklaşım: Elektromanyetik algoritma, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Endüstri Mühendisliği (Yl) (Tezli), 2009

## Research Areas

Evolutionary Computing, Industrial Engineering

## Academic Titles / Tasks

Assistant Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ, 2020 - Continues
Research Assistant, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ, 2006 - Continues

# Published journal articles indexed by SCI, SSCI, and AHCI

I. **An Improved Electromagnetic Field Optimization for the Global Optimization Problems**
YURTKURAN A.
COMPUTATIONAL INTELLIGENCE AND NEUROSCIENCE, 2019 (SCI-Expanded)

II. **A novel artificial bee colony algorithm for the workforce scheduling and balancing problem in sub-assembly lines with limited buffers**
Yurtkuran A., Yağmahan B., Emel E.
APPLIED SOFT COMPUTING, vol.73, pp.767-782, 2018 (SCI-Expanded)

III. **An Enhanced Artificial Bee Colony Algorithm with Solution Acceptance Rule and Probabilistic Multisearch**
YURTKURAN A., EMEL E.
COMPUTATIONAL INTELLIGENCE AND NEUROSCIENCE, 2016 (SCI-Expanded)

IV. **A discrete artificial bee colony algorithm for single machine scheduling problems**
YURTKURAN A., EMEL E.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.54, no.22, pp.6860-6878, 2016 (SCI-Expanded)

V. **An adaptive artificial bee colony algorithm for global optimization**
YURTKURAN A., EMEL E.
APPLIED MATHEMATICS AND COMPUTATION, vol.271, pp.1004-1023, 2015 (SCI-Expanded)

VI. **A Modified Artificial Bee Colony Algorithm for p-Center Problems**
YURTKURAN A., EMEL E.
SCIENTIFIC WORLD JOURNAL, 2014 (SCI-Expanded)

VII. **Efficient Constraint Handling in Electromagnetism-Like Algorithm for Traveling Salesman Problem with Time Windows**
YURTKURAN A., EMEL E.
SCIENTIFIC WORLD JOURNAL, 2014 (SCI-Expanded)

VIII. **A Clinical Decision Support System for Femoral Peripheral Arterial Disease Treatment**
YURTKURAN A., TOK M., EMEL E.
COMPUTATIONAL AND MATHEMATICAL METHODS IN MEDICINE, 2013 (SCI-Expanded)

IX. **A new Hybrid Electromagnetism-like Algorithm for capacitated vehicle routing problems**
YURTKURAN A., EMEL E.
EXPERT SYSTEMS WITH APPLICATIONS, vol.37, no.4, pp.3427-3433, 2010 (SCI-Expanded)

# Articles Published in Other Journals

I. **Lean transformation to reduce costs in healthcare: A public hospital case in Turkey**
YURTKURAN A., Özdemir D., YURTKURAN D. M., EMEL E.
Journal of Hospital Administration, vol.6, no.4, pp.10, 2017 (Peer-Reviewed Journal)

II. **Heuristic and Genetic Algorithm Approaches to the Real-World University Examination Timetabling Problem**
KÜÇÜKOĞLU İ., YURTKURAN A.
Global Journal of Business, Economics and Management, vol.7, no.1, pp.143-151, 2017 (Peer-Reviewed Journal)

III. **A Linear Programming Approach for Parallel Cell Scheduling with Sequence Dependent Setup Times**
Yıldız T., Özalp B. T., Küçükoğlu İ., Yurtkuran A., Öztürk N.
AMERICAN JOURNAL OF OPERATIONS RESEARCH, vol.4, no.3, pp.155-163, 2014 (Peer-Reviewed Journal)

# Refereed Congress / Symposium Publications in Proceedings

I. **Saatlik Enerji Piyasası Fiyatları ile Enerji Etkin Tek Makina Çizelgeleme Probleminin Optimizasyonu**
YAĞMAHAN B., YURTKURAN A.
YA/EM'2018-Yöneylem Araştırması/Endüstri Mühendisliği 38. Ulusal Kongresi, Eskişehir, Turkey, 26 - 29 June

2018

II. **An Optimization Model for the Energy Efficient Job Shop Scheduling Problem with Machine State and Time-of-use Electricity Tariffs of Turkey**
Yurtkuran A., Yağmahan B.
International Conference on Applied Mathematics in Engineering (ICAME18), Balıkesir, Turkey, 27 - 29 June 2018

III. **Electromagnetic Field Optimization for Turkey's Transportation Energy Demand Estimation**
YURTKURAN A., KÜÇÜKOĞLU İ.
EURO 2018: 29th European Conference on Operational Research, Valencia, Spain, 8 - 11 July 2018

IV. **Electromagnetic Field Optimization Algorithm for the Photovoltaic Solar Cell Parameter Estimation Problem**
KÜÇÜKOĞLU İ., YURTKURAN A.
EURO 2018: 29th European Conference on Operational Research, Valencia, Spain, 8 - 11 July 2018

V. **Fuzzy Multi Criteria Decision Making Approach Integrated Mathematical Model for Examination Timetabling Problem**
KÜÇÜKOĞLU İ., YAĞMAHAN B., YURTKURAN A.
ICAME 2018: International Conference on Applied Mathematics in Engineering, Balıkesir, Turkey, 27 - 29 June 2018

VI. **Comparative Study of Physics-Inspired Meta-Heuristic Algorithms for the Solar Cell Parameter Identification Problem**
YURTKURAN A., KÜÇÜKOĞLU İ.
ICCE 2018: 16th International Conference on Clean Eergy, Gazimagusa, Cyprus (Kktc), 9 - 11 May 2018

VII. **Optimization of an AGV Based Assembly Line Feeding System by Analytical Simulation Approach and Taguchi Design of Experiments**
Yurtkuran A., Yağmahan B., Kayır F., Nalbant F. G., Kara B.
47th International Conference on Computers Industrial Engineering (CIE47), Lisbon, Portugal, 11 - 13 October 2017

VIII. **A review of optimization methods applied to renewable and sustainable energy**
YURTKURAN A.
(SEAIA 2017: The Fifth International Symposium on Engineering, Artificial Intelligence and Applications, Girne, Cyprus (Kktc), 1 - 03 November 2017

IX. **Comparative study of different regression models on predicting wastewater treatment plant effluent characteristics**
Yurtkuran M., YURTKURAN A., SALİHOĞLU G.
ISEAIA2017: Fifth International Sysmposium on Engineering, Artificial Intelligence and Applications, Girne, Cyprus (Kktc), 1 - 03 November 2017

X. **A Heuristic Approach for the Environmental Charging Station Scheduling Problem**
YURTKURAN A., KÜÇÜKOĞLU İ.
ISEAIA2017: 5th International Symposium on Engineering, Artificial Intelligence and Applications, Girne, Cyprus (Kktc), 1 - 03 November 2017

XI. **Karışık modelli çift-taraflı U-tipi montaj hattı dengeleme ve iş gücü çizelgeleme problemi için iki aşamalı çözüm yaklaşımı**
Kaya E., Güven A., Ünal T., YURTKURAN A., EMEL E.
37. YÖNEYLEM ARAŞTIRMASI VE ENDÜSTRİ MÜHENDİSLİĞİ ULUSAL KONGRESİ, İstanbul, Turkey, 5 - 07 July 2017

XII. **Discrete electromagnetism-like algorithm for flexible job shop problems**
YURTKURAN A.
Joint EURO/ORSC/ECCO 2017 Conference, Koper, Slovenia, 3 - 06 May 2017

XIII. **Enerji Etkin İş-Makine Çizelgeleme Sistemi için Optimizasyon Yazılımı**
Yağmahan B., Yurtkuran A.
Uludağ Üniversitesi VI.Bilgilendirme ve AR-GE Günleri, Bursa, Turkey, 15 - 16 March 2017

XIV. **A hybrid algorithm for the environmental open vehicle routing problem**
YURTKURAN A.

Fourth International Symposium on Engineering, Artificial Intelligence and Applications, Girne, Cyprus (Kktc), 2 - 04 November 2016

XV. **A comparative study of physics inspired meta heuristic algorithms**
YURTKURAN A.
Fourth International Symposium on Engineering, Artificial Intelligence and Applications, Girne, Cyprus (Kktc), 2 - 04 November 2016

XVI. **Web based meta heuristic approach for university timetabling problem**
YURTKURAN A., KÜÇÜKOĞLU İ.
Fourth International Symposium on Engineering, Artificial Intelligence and Applications, Girne, Cyprus (Kktc), 2 - 04 November 2016

XVII. **A review of optimization methods applied to wind turbine layout problem**
YURTKURAN A.
International Energy and Engineering Conference 2016, Gaziantep, Turkey, 13 - 14 October 2016

XVIII. **A new hybrid constrained optimization algorithm for wind turbine layout optimization**
YURTKURAN A.
International Energy and Engineering Conference 2016, Gaziantep, Turkey, 13 - 14 October 2016

XIX. **A binary real coded electromagnetism like algorithm for wind farm layout optimization**
YURTKURAN A.
28th European Conference on Operational Research, Poznan, Poland, 3 - 06 July 2016

XX. **Heuristic and genetic algorithm approaches to the real world university examination timetabling problem**
KÜÇÜKOĞLU İ., YURTKURAN A.
5th World Conference on Business, Economics and Management, Antalya, Turkey, 12 - 14 May 2016

XXI. **A global best guided weighted superposition attraction algorithm for global optimization problems**
YURTKURAN A.
5th World Conference on Business, Economics and Management, Antalya, Turkey, 12 - 14 May 2016

XXII. **An Artificial Bee Colony Algorithm for Open Vehicle Routing Problems**
YURTKURAN A., EMEL E.
International Symposium on Engineering, Artificial Intelligence & Applications, Girne, Cyprus (Kktc), 4 - 06 November 2015

XXIII. **A Binary Electromagnetism like Algorithm for Wind Turbine Placement Problem**
YURTKURAN A., EMEL E.
International Symposium on Engineering, Artificial Intelligence & Applications, Girne, Cyprus (Kktc), 4 - 06 November 2015

XXIV. **Semantic Differential - Preference Research Of The Campus Image: Uludag Universıty'**
YURTKURAN S., KIRLI G., YURTKURAN A.
AVANCES DE LA PSICOLOGÍA AMBIENTAL ANTE LA PROMOCIÓN DE LA SALUD, EL BIENESTARY LA CALIDAD DE VIDA XIII Congreso De Psicología Ambiental, 22 June 2015

XXV. **A binary artificial bee colony algorithm for optimal wind turbine placement in wind farms**
YURTKURAN A., EMEL E.
28th Conference of the European Chapter on Combinatorial Optimization, Katanya, Italy, 28 - 30 May 2015

XXVI. **Simulated Annealing Approach for Timetabling Problem**
KÜÇÜKOĞLU İ., YURTKURAN A., KANGA Ö.
ISEAIA 2013: First International Symposium on Engineering, Artificial Inteligence Applications, Girne, Cyprus (Kktc), 6 - 08 November 2013

XXVII. **An Improved Artificial Bee Colony Algorithm for Attractive Travelling Salesman Problem**
YURTKURAN A., KANGA Ö., KÜÇÜKOĞLU İ.
ISEAIA 2013, First International Symposium on Engineering, Artificial Inteligence Applications, Girne, Cyprus (Kktc), 6 - 08 November 2013

XXVIII. **A Modified Ant Colony Optimization Algorithm for Asymetric Travelling Salesman Problem**
KANGA Ö., KÜÇÜKOĞLU İ., YURTKURAN A.

ISEAIA 2013: First International Symposium on Engineering, Artificial Inteligence Applications, Girne, Cyprus (Kktc), 6 - 08 November 2013

XXIX. **Mathematical Model for the Vehicle Routing Problem with Stochastic Demands and Backhaul Constraints**
KANGA Ö., KÜÇÜKOĞLU İ., YURTKURAN A.
International Congress in Honour of Professor Hari M. Srivastava, Bursa, Turkey, 23 - 26 August 2012

XXX. **SIMULATION BASED DECISION-MAKING FOR HOSPITAL PHARMACY MANAGEMENT**
YURTKURAN A., EMEL E.
2008 Winter Simulation Conference, Florida, United States Of America, 7 - 10 December 2008, pp.1539-1546

## Metrics

Publication: 42
Citation (WoS): 162
Citation (Scopus): 211
H-Index (WoS): 5
H-Index (Scopus): 7