

## **Kişisel Bilgiler**

**E-posta:** zaferb@kocaeli.edu.tr

## **Eğitim Bilgileri**

Yüksek Lisans, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Kontrol Ve Otomasyon Mühendisliği Bölümü, Türkiye 1992 - Devam Ediyor

Doktora, Vanderbilt University, Bilgisayar Ve Elektrik Mühendisliği, Amerika Birleşik Devletleri 1996 - 2000

Yüksek Lisans, Vanderbilt University, Bilgisayar Ve Elektrik Mühendisliği, Amerika Birleşik Devletleri 1994 - 1996

Lisans, İstanbul Teknik Üniversitesi, Elektrik-Elektronik Fakültesi, Türkiye 1988 - 1992

## **Yabancı Diller**

İngilizce, C1 İleri

## **Yaptığı Tezler**

Doktora, Dynamic Modeling of Gas Metal Arc Welding Process, Vanderbilt University, Bilgisayar Ve Elektrik Mühendisliği, 2000

Yüksek Lisans, Stability Considerations for the Gas Metal Arc Welding Process, Vanderbilt University, Bilgisayar Ve Elektrik Mühendisliği, 1996

## **Araştırma Alanları**

Mühendislik ve Teknoloji

## **Akademik Unvanlar / Görevler**

Prof.Dr., Kocaeli Üniversitesi, Mühendislik Fakültesi, Mekatronik Mühendisliği Bölümü, 2012 - Devam Ediyor

Doç.Dr., Kocaeli Üniversitesi, Mühendislik Fakültesi, Mekatronik Mühendisliği Bölümü, 2006 - 2012

Yrd.Doç.Dr., Kocaeli Üniversitesi, Mühendislik Fakültesi, Mekatronik Mühendisliği Bölümü, 2001 - 2006

Yrd.Doç.Dr., Kocaeli Üniversitesi, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, 2000 - 2001

Araştırma Görevlisi, Vanderbilt University, Mühendislik Fakültesi, Elektrik Ve Bilgisayar Mühendisliği, 1994 - 2000

Araştırma Görevlisi, Kocaeli Üniversitesi, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, 1993 - 2000

## **Mesleki Deneyim**

Bölüm Başkanı, Kocaeli Üniversitesi, Mühendislik Fakültesi, Mekatronik Mühendisliği Bölümü, 2012 - 2015

Anabilim/Bilim Dalı Başkanı, Kocaeli Üniversitesi, Mühendislik Fakültesi, Mekatronik Mühendisliği Bölümü, 2012 - 2015

Enstitü Müdür Yardımcısı, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, 2009 - 2012

Bölüm Başkan Yardımcısı, Kocaeli Üniversitesi, Mühendislik Fakültesi, Mekatronik Mühendisliği Bölümü, 2003 - 2006

Anabilim/Bilim Dalı Başkanı, Kocaeli Üniversitesi, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, 2000 - 2001

## **SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler**

- **Design and Development of a Stewart Platform Assisted and Navigated Transsphenoidal Surgery**  
KİZİR S., BİNGÜL Z.  
Turkish Journal Of Electrical Engineering And Computer Sciences, cilt.27, 2019 (SCI Expanded İndekslerine Giren Dergi)
- **A novel performance criterion approach to optimum design of PID controller using cuckoo search algorithm for AVR system**  
BİNGÜL Z., KARAHAN O.  
Journal of the Franklin Institute, cilt.355, ss.5534-5559, 2018 (SCI İndekslerine Giren Dergi)
- **Comparison of PID and FOPID controllers tuned by PSO and ABC algorithms for unstable and integrating systems with time delay**  
BİNGÜL Z., KARAHAN O.  
Optimal Control Applications and Methods, cilt.39, ss.1431-1450, 2018 (SCI İndekslerine Giren Dergi)
- **Trajectory and Vibration Control of a Single-Link Flexible-Joint Manipulator Using a Distributed Higher-Order Differential Feedback Controller**  
AGEE J. T. , BİNGÜL Z., KİZİR S.  
JOURNAL OF DYNAMIC SYSTEMS MEASUREMENT AND CONTROL-TRANSACTIONS OF THE ASME, cilt.139, 2017 (SCI İndekslerine Giren Dergi)
- **Recent Advances in Control Theory and Applications in Turkey**  
BİNGÜL Z.  
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, cilt.38, ss.499-500, 2016 (SCI İndekslerine Giren Dergi)
- **Intelligent proportional-integral (iPI) control of a single link flexible joint manipulator**  
AGEE J. T. , KİZİR S., BİNGÜL Z.  
JOURNAL OF VIBRATION AND CONTROL, cilt.21, ss.2273-2288, 2015 (SCI İndekslerine Giren Dergi)
- **Higher-order differential feedback control of a flexible-joint manipulator**  
AGEE J. T. , BİNGÜL Z., KİZİR S.  
JOURNAL OF VIBRATION AND CONTROL, cilt.21, ss.1976-1986, 2015 (SCI İndekslerine Giren Dergi)
- **Tip trajectory control of a flexible-link manipulator using an intelligent proportional integral (iPI) controller**  
AGEE J. T. , BİNGÜL Z., KİZİR S.  
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, cilt.36, ss.673-682, 2014 (SCI İndekslerine Giren Dergi)
- **Inverse kinematics solutions for industrial robot manipulators with offset wrists**  
KÜÇÜK S., BİNGÜL Z.  
APPLIED MATHEMATICAL MODELLING, cilt.38, ss.1983-1999, 2014 (SCI İndekslerine Giren Dergi)
- **Fuzzy impedance and force control of a Stewart platform**  
KİZİR S., BİNGÜL Z.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.22, ss.924-939, 2014 (SCI İndekslerine Giren Dergi)
- **TIME DELAY COMPENSATED VISION BASED STABILIZATION CONTROL OF AN INVERTED PENDULUM**  
KİZİR S., OCAK H., BİNGÜL Z., OYSU C.  
INTERNATIONAL JOURNAL OF INNOVATIVE COMPUTING INFORMATION AND CONTROL, cilt.8, ss.8133-8145, 2012 (SCI İndekslerine Giren Dergi)
- **Cascade fuzzy logic control of a single-link flexible-joint manipulator**  
AKYUZ I. H. , BİNGÜL Z., KİZİR S.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.20, ss.713-726, 2012 (SCI İndekslerine Giren Dergi)
- **Fractional PID controllers tuned by evolutionary algorithms for robot trajectory control**  
BİNGÜL Z., KARAHAN O.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.20, ss.1123-1136, 2012 (SCI İndekslerine Giren Dergi)
- **Dynamic identification of Staubli RX-60 robot using PSO and LS methods**  
BİNGÜL Z., KARAHAN O.  
EXPERT SYSTEMS WITH APPLICATIONS, cilt.38, ss.4136-4149, 2011 (SCI İndekslerine Giren Dergi)

- **A Fuzzy Logic Controller tuned with PSO for 2 DOF robot trajectory control**  
BİNGÜL Z., KARAHAN O.  
EXPERT SYSTEMS WITH APPLICATIONS, cilt.38, ss.1017-1031, 2011 (SCI İndekslerine Giren Dergi)
- **An Off-Line Robot Simulation Toolbox**  
KÜÇÜK S., BİNGÜL Z.  
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, cilt.18, ss.41-52, 2010 (SCI İndekslerine Giren Dergi)
- **Fuzzy control of a real time inverted pendulum system**  
KİZİR S., BİNGÜL Z., OYSU C.  
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, cilt.21, ss.121-133, 2010 (SCI İndekslerine Giren Dergi)
- **Application of heuristic and hybrid-GASA algorithms to tool-path optimization problem for minimizing airtime during machining**  
OYSU C., BİNGÜL Z.  
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, cilt.22, ss.389-396, 2009 (SCI İndekslerine Giren Dergi)
- **Adaptive genetic algorithms applied to dynamic multiobjective problems**  
Bingul Z.  
APPLIED SOFT COMPUTING, cilt.7, ss.791-799, 2007 (SCI İndekslerine Giren Dergi)
- **Hybrid genetic algorithm and simulated annealing for two-dimensional non-guillotine rectangular packing problems**  
Soke A., Bingul Z.  
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, cilt.19, ss.557-567, 2006 (SCI İndekslerine Giren Dergi)
- **Comparative study of performance indices for fundamental robot manipulators**  
Kucuk S., Bingul Z.  
ROBOTICS AND AUTONOMOUS SYSTEMS, cilt.54, ss.567-573, 2006 (SCI İndekslerine Giren Dergi)
- **A real-time prediction model of electrode extension for GMAW**  
Bingul Z., Cook G.  
IEEE-ASME TRANSACTIONS ON MECHATRONICS, cilt.11, ss.47-54, 2006 (SCI İndekslerine Giren Dergi)
- **Link mass optimization of serial robot manipulators using genetic algorithm**  
Kucuk S., Bingul Z.  
KNOWLEDGE-BASED INTELLIGENT INFORMATION AND ENGINEERING SYSTEMS, PT 1, PROCEEDINGS, cilt.4251, ss.138-144, 2006 (SCI İndekslerine Giren Dergi)
- **Comparison of meta-heuristic hybrid approaches for two dimensional non-guillotine rectangular cutting problems**  
Soke A., Bingul Z.  
ADVANCES IN NATURAL COMPUTATION, PT 3, PROCEEDINGS, cilt.3612, ss.1304-1307, 2005 (SCI İndekslerine Giren Dergi)
- **Comparison of stochastic and approximation algorithms for one-dimensional cutting problems**  
Bingul Z., Oysu C.  
ADVANCES IN INTELLIGENT COMPUTING, PT 1, PROCEEDINGS, cilt.3644, ss.976-985, 2005 (SCI İndekslerine Giren Dergi)
- **A new PID tuning technique using differential evolution for unstable and integrating processes with time delay**  
Bingul Z.  
NEURAL INFORMATION PROCESSING, cilt.3316, ss.254-260, 2004 (SCI İndekslerine Giren Dergi)
- **Comparison of constant current and pulsed gas metal arc welding processes on basis of electrode resistive dissipation**  
Bingul Z., Cook G., Strauss A.  
SCIENCE AND TECHNOLOGY OF WELDING AND JOINING, cilt.8, ss.19-28, 2003 (SCI İndekslerine Giren Dergi)
- **Instability phenomena in the gas-metal arc welding self-regulation process**  
Bingul Z.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART B-JOURNAL OF ENGINEERING

MANUFACTURE, cilt.216, ss.899-910, 2002 (SCI İndekslerine Giren Dergi)

- **Dynamic model for electrode melting rate in gas metal arc welding process**

Bingül Z., Cook G., Strauss A.

SCIENCE AND TECHNOLOGY OF WELDING AND JOINING, cilt.6, ss.41-50, 2001 (SCI İndekslerine Giren Dergi)

- **Application of fuzzy logic to spatial thermal control in fusion welding**

Bingül Z., Cook G., Strauss A.

IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, cilt.36, ss.1523-1530, 2000 (SCI İndekslerine Giren Dergi)

## Diğer Dergilerde Yayınlanan Makaleler

- **Comparison of friction estimation models for rotary triple inverted pendulum**

Hazem Z. B. , Fotuhi M. J. , BİNGÜL Z.

International Journal of Mechanical Engineering and Robotics Research, cilt.8, ss.74-78, 2019

- **Development and control of a high precision stewart platform**

KİZİR S., BİNGÜL Z., KÜÇÜK S., OYSU C.

SDU International Journal of Technologic Sciences, 2011

- **Genetic algorithms applied to real time multiobjective optimization problems**

Bingül Z., Sekmen A., Palaniappan S., Zein-Sabatto S.

Conference Proceedings - IEEE SOUTHEASTCON, ss.95-103, 2000

- **Evolutionary approach to multi-objective problems using adaptive genetic algorithms**

Bingül Z., Sekmen A., Zein-Sabatto S.

Proceedings of the IEEE International Conference on Systems, Man and Cybernetics, cilt.3, ss.1923-1927, 2000  
(Diğer Kurumların Hakemli Dergileri)

- **Human-robot interaction over the internet**

Sekmen A., Bingül Z., Hombal V., Zein-Sabatto S.

Conference Proceedings - IEEE SOUTHEASTCON, ss.223-228, 2000

- **Dynamic modeling of GMAW process**

Bingül Z., Cook G. E.

Proceedings - IEEE International Conference on Robotics and Automation, cilt.4, ss.3059-3064, 1999

## Kitap & Kitap Bölümleri

- **Swarm Intelligence Volume 3: Applications,**

Bingül Z.

Swarm Intelligence for Controller Tuning and Control of Fractional Systems, Tan Y, Editör, IET Control Robotics and Sensors Series, London, ss.245-281, 2018

- **Serial and Parallel Robot Manipulators: Kinematic Dynamics, Control and Optimization**

Bingül Z., Karahan O.

Dynamic Modeling and Simulation of Stewart Platform , Serdar Küçük, Editör, INTECH Open, Rijeka, ss.19-41, 2012

- **Serial and Parallel Robot Manipulators Kinematics Dynamics Control and Optimization**

KİZİR S., BİNGÜL Z.

Position Control and Trajectory Tracking of the Stewart Platform, Küçük Serdar, Editör, InTech, 2012

- **Robot Manipulators**

Bingül Z., Küçük S.

Link Mass Optimization Using Genetic Algorithms for Industrial Robot Manipulators, Marco Ceccarelli, Editör, IntechOpen, Rijeka, ss.275-290, 2008

- **Industrial Robotics: Theory, Modelling and Control**

Bingül Z., Küçük S.

Robot Kinematics: Forward and Inverse Kinematics, Sam Cubero, Editör, IntechOpen, Rijeka, ss.117-148, 2006

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- **Design and Analysis of a Radial Flux Electrically Excited Eddy Current Brake**  
Topcuoglu M. B. , Bingul Z., Gulec M.  
28th IEEE International Symposium on Industrial Electronics, ISIE 2019, Vancouver, Kanada, 12 - 14 Haziran 2019, ss.1498-1505
- **New design and development of reconfigurable-hybrid hexapod robot**  
Ozyalcin K., Akay I. H. , Ozturk Y., Mengus B., ÖZAKYOL H., BİNGÜL Z.  
44th Annual Conference of the IEEE Industrial Electronics Society, IECON 2018, Washington, Amerika Birleşik Devletleri, 20 - 23 Ekim 2018, ss.2583-2588
- **Comparison of joint friction estimation models for laboratory 2 DOF double dual twin rotor aerodynamical system**  
Fotuhi M. J. , Hazem Z. B. , BİNGÜL Z.  
44th Annual Conference of the IEEE Industrial Electronics Society, IECON 2018, Washington, Amerika Birleşik Devletleri, 20 - 23 Ekim 2018, ss.2231-2236
- **Kinematic and dynamic analysis and design toolbox of high-DOF hybrid multibody systems**  
ÖZAKYOL H., KARAMAN C., BİNGÜL Z.  
44th Annual Conference of the IEEE Industrial Electronics Society, IECON 2018, Washington, Amerika Birleşik Devletleri, 20 - 23 Ekim 2018, ss.2558-2563
- **Design and Development of a Stewart Platform Based Robotic System for Transsphenoidal Surgery**  
KİZİR S., BİNGÜL Z.  
6th International Conference on Control Engineering Information Technology, 25 - 27 October 2018
- **Adaptive joint friction estimation model for laboratory 2 DOF double dual twin rotor aerodynamical helicopter system**  
Fotuhi M. J. , Ben Hazem Z., BİNGÜL Z.  
6th International Conference on Control Engineering and Information Technology, CEIT 2018, İstanbul, Türkiye, 25 - 27 Ekim 2018
- **Linear and extended kalman filter estimation of pitch and yaw angles for 2 DOF double dual twin rotor aero-dynamical system**  
Nasir F. E. , Javad Fotuhi M., BİNGÜL Z.  
6th International Conference on Control Engineering and Information Technology, CEIT 2018, İstanbul, Türkiye, 25 - 27 Ekim 2018
- **A comparative study of the friction models with adaptive coefficients for a rotary triple inverted pendulum**  
Hazem Z. B. , Javad Fotuhi M., BİNGÜL Z.  
6th International Conference on Control Engineering and Information Technology, CEIT 2018, İstanbul, Türkiye, 25 - 27 Ekim 2018
- **Position and Trajectory Fuzzy Control of a Laboratory 2 DOF Double Dual Twin Rotor Aerodynamical System**  
Fotuhi M. J. , BİNGÜL Z.  
27th IEEE International Symposium on Industrial Electronics, ISIE 2018, Cairns, Avustralya, 13 - 15 Haziran 2018, ss.277-282
- **Blur Analysis for Gimbaled Imaging Systems in Air Vehicles**  
Dogan H., BİNGÜL Z.  
5th International Conference on Control, Decision and Information Technologies, CoDIT 2018, Thessaloniki, Yunanistan, 10 - 13 Nisan 2018, ss.995-1000
- **İki Serbestlik Dereceli Dört Rotor Sisteminin Tasarımı, Modellenmesi ve Kontrolü**  
KELEKÇİ E., KİZİR S., BİNGÜL Z.  
5th International Symposium on Innovative Technologies in Engineering and Science, 29 - 30 September 2017
- **Robotics toolbox for kinematic analysis and design of hybrid multibody systems**  
ÖZAKYOL H., KARAMAN C., BİNGÜL Z.  
18th International Conference on Advanced Robotics, ICAR 2017, Hong Kong, Çin, 10 - 12 Temmuz 2017, ss.401-406
- **Stewart Platformunun Konum ve Bulanık Empedans-Kuvvet Kontrolü**  
KİZİR S., BİNGÜL Z.

Otomatik Kontrol Türk Milli Komitesi Ulusal Toplantısı, TOK2012, Türkiye, 11 - 13 October 2012

- **Çift Eksenli Ters Sarkaç Sisteminde Parametrelerin Parçacık Sürü Optimizasyon Tekniğiyle Belirlenmesi**  
YÜKSEL a., KIZIR S., BİNGÜL Z.  
Otomatik Kontrol Türk Milli Komitesi Ulusal Toplantısı, TOK2012, Türkiye, 11 - 13 October 2012
- **Haptik Kontrollü Stewart Platformu ile Endoskop Konumlama**  
KIZIR S., BİNGÜL Z.  
Otomatik Kontrol Türk Milli Komitesi Ulusal Toplantısı, TOK2012, Türkiye, 11 - 13 October 2012
- **Obstacle and optimal heading direction detection algorithm on a mobile robot platform Mobil robot platformu üzerinde engel algılanması ve optimal yönün belirlenmesi**  
KARAKAYA S., Küçük yıldız G., OCAK H., BİNGÜL Z.  
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Mugla, Türkiye, 18 - 20 Nisan 2012
- **Vision based magnetic levitation system Görü tabanlı manyetik süspansiyon sistemi**  
KIZIR S., Küçük yıldız G., OCAK H., BİNGÜL Z.  
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Mugla, Türkiye, 18 - 20 Nisan 2012
- **PSO BASED FLAT CONTROL OF A SINGLE LINK FLEXIBLE MANIPULATOR**  
Markus E. D. , Agee J. T. , Jimoh A. A. , Tlale N., Anene E. C. , Bingul Z.  
5th International Conference on Advanced Computer Theory and Engineering (ICACTE 2012), Cape-Town, Güney Afrika, 18 - 19 Ağustos 2012, ss.739-746
- **Inverted Pendulum System: a Laboratory Tool for Control Education**  
KIZIR S., BİNGÜL Z., OYSU C.  
9th International Conference on Electronics Computer and Computation (ICECCO 2012), Ankara, Türkiye, 1 - 03 Kasım 2012, ss.61-64
- **Ters Sarkaç Sisteminin Görme Tabanlı Gecikme Telafili Kontrolü**  
KIZIR S., OCAK H., BİNGÜL Z., OYSU C.  
TOK 2011, Otomatik Kontrol Ulusal Toplantısı, Türkiye, 14 - 16 September 2011
- **Tuning of fractional PID controllers using PSO algorithm for robot trajectory control**  
BİNGÜL Z., KARAHAN O.  
2011 IEEE International Conference on Mechatronics, ICM 2011, İstanbul, Türkiye, 13 - 15 Nisan 2011, ss.955-960
- **PID and State Feedback Control of a Single Link Flexible Joint Robot Manipulator**  
AKYÜZ İ. H. , ERTUNÇ H. M. , BİNGÜL Z.  
Proceedings of the 2011 IEEE, International Conference on Mechatronics, 13 - 15 Nisan 2011
- **Fuzzy Logic Control of Single-Link Flexible Joint Manipulator**  
AKYUZ I. H. , KIZIR S., BİNGÜL Z.  
IEEE International Conference on Industrial Technology (ICIT), Alabama, Amerika Birleşik Devletleri, 14 - 16 Mart 2011
- **Yüksek Hassasiyetli Stewart Platformunun Kayma Kipli Konum Kontrolü ve Yörünge Takibi**  
KIZIR S., BİNGÜL Z.  
TOK2010, Türkiye, 21 - 23 September 2010
- **Yüksek Hassasiyetli Stewart Platformunun Kesir Dereceli PID Yöntemiyle Konum Kontrolü ve Yörünge Takibi**  
KARAHAN O., KIZIR S., BİNGÜL Z.  
TOK2010, Türkiye, 21 - 23 September 2010
- **PD-fuzzy controller tuned with PSO for robot trajectory control**  
Karahan O., Bingül Z.  
2nd IFAC International Conference on Intelligent Control Systems and Signal Processing, İstanbul, Türkiye, 21 - 23 Eylül 2009, cilt.2
- **Tek Eklemlili Esnek Robot Kolunun Modellenmesi, Tasarımı ve Bulanık Mantık ile Kontrolü**  
KIZIR S., BİNGÜL Z., AKYUZ İ. H.  
TOK09, Türkiye, 13 - 16 October 2009
- **Yüksek Hassasiyetli Stewart Platformunun Tasarımı ve PID ile Kontrolü**  
KIZIR S., BİNGÜL Z., OYSU C., KÜÇÜK S.

TOK2009, Türkiye, 01 September 2009

- **Ters Sarkaç Sisteminde Yükseltme Problemi**

KIZIR S., BINGUL Z., OYSU C.

TOK2008, Türkiye, 01 September 2008

- **SWING-UP AND STABILIZATION OF THE INVERTED PENDULUM PROBLEM WITH PID AND FULL STATE FEEDBACK CONTROL METHODS**

KIZIR S., BINGUL Z., OYSU C.

9th International Workshop on Research and Education in Mechatronics 2008, 01 September 2008

- **DESIGN AND IMPLEMENTATION OF A SINGLE AXIS MAGNETIC LEVITATION SYSTEM**

KIZIR S., BINGUL Z., OYSU C.

9th International Workshop on Research and Education in Mechatronics, 01 September 2008

- **Gerçek Zamanlı Ters Sarkaç Sisteminin Bulanık Mantık ile Kontrolü**

KIZIR S., BINGUL Z., OYSU C.

TOK 2008, Türkiye, 01 September 2008

- **Fuzzy control of a real time inverted pendulum system**

KIZIR S., BINGUL Z., OYSU C.

12th International Conference on Knowledge-Based Intelligent Information and Engineering Systems, Zagreb, Hırvatistan, 3 - 05 Eylül 2008, cilt.5177, ss.674-681

- **Modelling and Identification of STAUBLI RX-60 Robot**

KARAHAN O., Bingul Z.

IEEE Conference on Robotics, Automation and Mechatronics, Chengdu, Çin, 21 - 24 Eylül 2008, ss.184-189

- **Manyetik Süspansiyon Sisteminin Gerçeklenmesi ve Kontrolü**

ÖZTÜRK s., KIZIR S., BINGUL Z., OYSU C.

TOK 2007, Türkiye, 01 September 2007

- **Ters Sarkaç Probleminin PID ve Tam Durum Geri-Besleme Yöntemleri ile Kontrolü**

KIZIR S., BINGUL Z., OYSU C.

TOK 2007, Türkiye, 01 September 2007

- **Comparison of Inverse Kinematics Solutions Using Neural Network for 6R Robot Manipulator with Offset**

BINGUL Z., ERTUNÇ H. M. , OYSU C.

5th International Symposium on Intelligent Manufacturing Systems, 29 - 31 Mayıs 2006

- **Link mass optimization of serial robot manipulators using genetic algorithm**

KÜÇÜK S., BINGUL Z.

10th International Conference on Knowledge-Based Intelligent Information and Engineering Systems, KES 2006, Bournemouth, İngiltere, 9 - 11 Ekim 2006, ss.138-144

- **Comparison of stochastic and approximation algorithms for one-dimensional cutting problems**

BINGUL Z., OYSU C.

International Conference on Intelligent Computing, ICIC 2005, Hefei, Çin, 23 - 26 Ağustos 2005, cilt.3644, ss.976-985

- **Comparison of meta-heuristic hybrid approaches for two dimensional non-guillotine rectangular cutting problems**

Soke A., BINGUL Z.

First International Conference on Natural Computation, ICNC 2005, Changsha, Çin, 27 - 29 Ağustos 2005, cilt.3612, ss.1304-1307

- **Applying Neural Network to Inverse Kinematic Problem for 6R Robot Manipulator with Offset Wrist**

BINGUL Z., ERTUNÇ H. M. , OYSU C.

7th International Conference on Adaptive and Natural Computing Algorithms, 21 - 23 March 2005, ss.112-115

- **Robot workspace optimization based on a novel local and global performance indices**

Kucuk S., Bingul Z.

IEEE International Symposium on Industrial Electronics, Dubrovnik, Hırvatistan, 20 - 23 Haziran 2005, ss.1593-1598

- **The inverse kinematics solutions of fundamental robot manipulators with offset wrist**

Kucuk S., Bingul Z.

IEEE International Conference on Mechatronics (ICM), Taipei, Tayvan, 10 - 12 Temmuz 2005, ss.197-202

- **Genetic algorithm and simulated annealing applied to two dimensional non-guillotine rectangular cutting**

## **problems**

Soke A., Bingul Z.

8th IASTED International Conference on Artificial Intelligence and Soft Computing, Marbella, İspanya, 1 - 03 Eylül 2004, ss.404-409

- **A new PID tuning technique using ant algorithm**

Varol H., Bingul Z.

American Control Conference, Massachusetts, Amerika Birleşik Devletleri, 30 Haziran - 02 Temmuz 2004, ss.2154-2159

- **The inverse kinematics solutions of industrial robot manipulators**

Kucuk S., Bingul Z.

IEEE International Conference on Mechatronics (ICM 2004), İstanbul, Türkiye, 3 - 05 Haziran 2004, ss.274-279

- **Study of droplet transfer mechanism in GMAW**

Bingul Z., Cook G., Koseeyaporn P., Strauss A.

6th International Conference on Trends in Welding Research, Arizona, Amerika Birleşik Devletleri, 15 - 19 Nisan 2002, ss.375-379

- **Robot workspace optimization based on the global conditioning index**

KÜÇÜK S., BİNGÜL Z.

3rd IFAC Workshop on Automatic Systems for Building the Infrastructure in Developing Countries, DECOM-TT 2003, İstanbul, Türkiye, 26 - 28 Haziran 2003, cilt.36, ss.117-122

- **Windows-based Robot Simulation Tools**

BİNGÜL Z., Koseeyaporn P., Cook G. E.

Proceedings of the 7th International Conference on Control, Automation, Robotics and Vision, ICARC 2002, Singapore, Singapur, 2 - 05 Aralık 2002, ss.1037-1041

- **Evolutionary approach to multi-objective problems using adaptive genetic algorithms**

Bingul Z., Sekmen A., Zein-Sabatto S.

IEEE International Conference on Systems, Man and Cybernetics, Tennessee, Amerika Birleşik Devletleri, 8 - 11 Ekim 2000, ss.1923-1927

- **Application of fuzzy logic to spatial thermal control in fusion welding**

Bingul Z., Cook G. E. , Strauss A. M. , Rashid K.

Proceedings of the 1999 IEEE Industry Applications Conference - 34th IAS Annual Meeting, Phoenix, AZ, USA, 3 - 07 Ekim 1999, cilt.1, ss.627-634

- **Comparison of algorithms for detection of the number of signal sources**

Sekmen A., Bingul Z.

IEEE Southeastcon 99 Conference on Technology on the Brink of 2000, Kentucky, Amerika Birleşik Devletleri, 25 - 28 Mart 1999, ss.70-73

- **Dynamic modeling of GMAW process**

Bingul Z., Cook G.

International Conference on Robotics and Automation (ICRA '99), Michigan, Amerika Birleşik Devletleri, 10 - 15 Mayıs 1999, ss.3059-3064

- **An Investigation of Constant Potential GMAW Instability Behavior**

Bingul Z., Cook G., Barnett R., Strauss A., Wells B.

Trends in Welding Research: Proceedings of the 5th International Conference, Pine Mountain, GA, Amerika Birleşik Devletleri, 1 - 05 Haziran 1998, ss.289-294

- **Seam Tracking Control by Fuzzy Logic in Pulsed Gas Metal Arc Welding**

Rashid K., Bingul Z., Cook G., Hartman D., Damrongsak D.

Trends in Welding Research: Proceedings of the 5th International Conference, Pine Mountain, GA, Amerika Birleşik Devletleri, 1 - 05 Haziran 1998, ss.1073-1077

## **Ansiklopedide Bölümler**

- **Türkiye Bilişim Ansiklopedisi**

Bingül Z.

Papatya Yayıncılık, ss.273-277, 2006



## **Atıflar**

Toplam Atıf Sayısı (WOS):607

h-indeksi (WOS):14