

## Prof. CÜNEYT OYSU

### Personal Information

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### Education Information

Doctorate, Imperial College of Science, Technology and Medicine, Makine Mühendisliği, United Kingdom 1995 - 1999

Postgraduate, Imperial College of Science, Technology and Medicine, Makine Mühendisliği, United Kingdom 1994 - 1995

Undergraduate, Middle East Technical University, Faculty Of Engineering, Makine Mühendisliği Bölümü, Turkey 1987 - 1992

### Academic Titles / Tasks

Professor, Kocaeli University, Mühendislik Fakültesi, Mekatronik Mühendisliği Bölümü, 2013 - Continues

Associate Professor, Kocaeli University, Mühendislik Fakültesi, Mekatronik Mühendisliği Bölümü, 2008 - 2013

Assistant Professor, Kocaeli University, Mühendislik Fakültesi, Mekatronik Mühendisliği Bölümü, 2001 - 2008

Assistant Professor, Kocaeli University, Teknik Eğitim Fakültesi, Makine Eğitimi Bölümü, 1999 - 2001

Research Assistant, Kocaeli University, Teknik Eğitim Fakültesi, Makine Eğitimi Bölümü, 1994 - 1999

### Academic and Administrative Experience

Kocaeli Üniversitesi, Yabancı Diller Yüksekokulu, 2015 - Continues

Kocaeli Üniversitesi, Mühendislik Fakültesi, 2012 - 2015

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

- I. **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, vol.8, no.12, pp.8133-8145, 2012 (SCI-Expanded)
- II. **A support vector machine-based online tool condition monitoring for milling using sensor fusion and a genetic algorithm**  
KAYA B., OYSU C., ERTUNÇ H. M., OCAK H.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART B-JOURNAL OF ENGINEERING MANUFACTURE, vol.226, pp.1808-1818, 2012 (SCI-Expanded)
- III. **Force-torque based on-line tool wear estimation system for CNC milling of Inconel 718 using neural networks**  
KAYA B., OYSU C., ERTUNÇ H. M.  
ADVANCES IN ENGINEERING SOFTWARE, vol.42, no.3, pp.76-84, 2011 (SCI-Expanded)
- IV. **Fuzzy control of a real time inverted pendulum system**  
Kizir S., Bingül Z., Oysu C.  
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.21, pp.121-133, 2010 (SCI-Expanded)

- V. **Application of heuristic and hybrid-GASA algorithms to tool-path optimization problem for minimizing airtime during machining**  
Oysu C., Bingül Z.  
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.22, pp.389-396, 2009 (SCI-Expanded)
- VI. **Finite element and boundary element contact stress analysis with remeshing technique**  
Oysu C.  
APPLIED MATHEMATICAL MODELLING, vol.31, no.12, pp.2744-2753, 2007 (SCI-Expanded)
- VII. **Thermal analysis of 154 kV underground cable joint using finite element method 154 kV XLPE yeralti güç kablo ekinin sonlu elemanlar yöntemiyle isil analizi**  
ARAS F., OYSU C.  
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.22, no.3, pp.281-286, 2007 (SCI-Expanded)
- VIII. **Automation of welding face shaping process for tubular structures**  
Oysu C.  
INDUSTRIAL ROBOT-AN INTERNATIONAL JOURNAL, vol.34, no.1, pp.32-38, 2007 (SCI-Expanded)
- IX. **An assessment of the methods for calculating ampacity of underground power cables**  
Aras F., OYSU C., YILMAZ G.  
ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.33, no.12, pp.1385-1402, 2005 (SCI-Expanded)
- X. **Drill wear monitoring using cutting force signals**  
Ertunc H. M., Oysu C.  
MECHATRONICS, vol.14, no.5, pp.533-548, 2004 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Development and control of a high precision stewart platform**  
KIZIR S., BINGUL Z., KUCUK S., OYSU C.  
SDU International Journal of Technologic Sciences, 2011 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Inverted Pendulum System: a Laboratory Tool for Control Education**  
KIZIR S., BINGUL Z., OYSU C.  
9th International Conference on Electronics Computer and Computation (ICECCO 2012), Ankara, Turkey, 1 - 03 November 2012, pp.61-64
- II. **Ters Sarkaç Sisteminin Görme Tabanlı Gecikme Telafili Kontrolü**  
KIZIR S., OCAK H., BINGUL Z., OYSU C.  
TOK 2011, Otomatik Kontrol Ulusal Toplantısı, Turkey, 14 - 16 September 2011
- III. **Yüksek Hassasiyetli Stewart Platformunun Tasarımı ve PID ile Kontrolü**  
KIZIR S., BINGUL Z., OYSU C., KUCUK S.  
TOK2009, Turkey, 01 September 2009
- IV. **Development and Control of a High Precision Stewart Platform**  
Kizir S., Bingül Z., Oysu C., Küçük S.  
IJRCS09 - 2th International Joint Robotics Competition and Symposium, Isparta, Turkey, 01 May 2009
- V. **Ters Sarkaç Sisteminde Yükseltme Problemi**  
KIZIR S., BINGUL Z., OYSU C.  
TOK2008, Turkey, 01 September 2008
- VI. **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

- VII. **Gerçek Zamanlı Ters Sarkaç Sisteminin Bulanık Mantık ile Kontrolü**  
KİZİR S., BİNGÜL Z., OYSU C.  
TOK 2008, Turkey, 01 September 2008
- VIII. **DESIGN AND IMPLEMENTATION OF A SINGLE AXIS MAGNETIC LEVITATION SYSTEM**  
KİZİR S., BİNGÜL Z., OYSU C.  
9th International Workshop on Research and Education in Mechatronics, 01 September 2008
- IX. **Kompozit Çubuk Yapıların Enerji Sönümleyici olarak Kullanılması**  
CENGİZ A., UÇAR M., OYSU C.  
4. Otomotiv Teknolojileri Kongresi OTEKON 2008, Bursa, Turkey, 1 - 04 June 2008
- X. **Fuzzy control of a real time inverted pendulum system**  
KİZİR S., BİNGÜL Z., OYSU C.  
12th International Conference on Knowledge-Based Intelligent Information and Engineering Systems, Zagreb, Croatia, 3 - 05 September 2008, vol.5177, pp.674-681
- XI. **Manyetik Süspansiyon Sisteminin Gerçeklenmesi ve Kontrolü**  
ÖZTÜRK s., KİZİR S., BİNGÜL Z., OYSU C.  
TOK 2007, Turkey, 01 September 2007
- XII. **Ters Sarkaç Probleminin PID ve Tam Durum Geri-Besleme Yöntemleri ile Kontrolü**  
KİZİR S., BİNGÜL Z., OYSU C.  
TOK 2007, Turkey, 01 September 2007
- XIII. **Tool Path Optimization Using Genetic Algorithms**  
OYSU C., BİNGÜL Z.  
International Conference on Genetic and Evolutionary Methods, Las Vegas, United States Of America, 25 - 28 June 2007
- XIV. **Comparison of Inverse Kinematics Solutions Using Neural Network for 6R Robot Manipulator with Offset**  
Bingül Z., Ertunç H. M., Oysu C.  
5th International Symposium on Intelligent Manufacturing Systems, Sakarya, Turkey, 29 - 31 May 2006
- XV. **Comparison of stochastic and approximation algorithms for one-dimensional cutting problems**  
Bingül Z., Oysu C.  
International Conference on Intelligent Computing, ICIC 2005, Hefei, China, 23 - 26 August 2005, vol.3644, pp.976-985
- XVI. **Applying Neural Network to Inverse Kinematic Problem for 6R Robot Manipulator with Offset Wrist**  
Bingül Z., Ertunç H. M., Oysu C.  
7th International Conference on Adaptive and Natural Computing Algorithms, Coimbra, Portugal, 21 - 23 March 2005, pp.112-115
- XVII. **Design and Implementation of a Mechatronics Systems Control Card PICLABOARD**  
ÇELİKTEPE A., OYSU C., ERTUNÇ H. M.  
The 9th Mechatronics Forum International Conference, 30 August - 01 September 2004
- XVIII. **Tool Wear Monitoring in Drilling Operations Using Bargraphic Methods**  
ERTUNÇ H. M., OYSU C.  
th International Conference on Mechatronic Design and Modeling, 13 - 14 September 2001

## Supported Projects

OYSU C., Project Supported by Higher Education Institutions, KAUCUK SÖNÜMLEYİCİ SONLU ELEMANLAR ANALİZİNDE VE DOĞRULAMA DENEY SET-UP'I İÇİN İŞ İSTASYONU VE PARÇA İMALATLARI VE NUMUNE PARÇALARIN TEMİNİ, 2014 - 2016

OYSU C., Project Supported by Higher Education Institutions, Kocaeli Üniversitesi Öğrenci Bilgi Sistemi Veri İletim Kapasitesi ve Güvenliğinin Geliştirilmesi, 2011 - 2013

## **Metrics**

Publication: 32

Citation (WoS): 294

Citation (Scopus): 388

H-Index (WoS): 9

H-Index (Scopus): 8