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Education Information

Doctorate, Erciyes University, Fen Bilimleri, Makina Mühendisliği, Turkey 2001 - 2007
Postgraduate, Erciyes University, Fen Bilimleri, Makina Mühendisliği, Turkey 1997 - 2001
Undergraduate, Erciyes University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey 1993 - 1997

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, MSC ADAMS Temel Seviye, BİAS MÜHENDİSLİK, 2005

Dissertations

Doctorate, Yapay Sinir Ağı Denetim Organı Kullanarak Taşıtlarda Aktif Süspansiyon Sistemi Kontrolü, Erciyes Üniversitesi, Fen Bilimleri, Makina Mühendisliği, 2008
Postgraduate, Endüstriyel Otomasyonda Cisimlerin Yapay Görme Sistemi ile Tanınarak Seçilmesi, Erciyes Üniversitesi, Fen Bilimleri, Makine Mühendisliği, 2001

Research Areas

Technical Sciences, Mechanical Engineering, Machine Theory and Dynamics, Machine Dynamics, System Dynamics and Control, Vehicle Systems Dynamics, Mechatronics, Mechanical Vibrations

Academic Titles / Tasks

Professor, Erciyes University, Mühendislik Fakültesi, Mekatronik Mühendisliği, 2020 - Continues
Associate Professor, Erciyes University, Mühendislik Fakültesi, Mekatronik Mühendisliği Bölümü, 2014 - 2020
Assistant Professor, Erciyes University, Erciyes Üniversitesi, Mühendislik Fakültesi, Mekatronik Mühendisliği, 2008 - 2014

Research Assistant, Erciyes University, Erciyes Üniversitesi, Mühendislik Fakültesi, Makine Bölümü, 2001 - 2008

Academic and Administrative Experience

Erciyes University, 2012 - Continues
Erciyes Üniversitesi, Mekatronik Mühendisliği, 2009 - Continues
Erciyes University, 2008 - Continues
Erciyes University, 2008 - Continues
Erciyes Üniversitesi, Mekatronik Mühendisliği, 2008 - 2012
Erciyes University, 2008 - 2012

Courses

Kontrol Sistemleri-II, Undergraduate, 2012 - 2013
Endüstriyel Otomasyon, Undergraduate, 2012 - 2013
Kontrol Sistemleri-I, Undergraduate, 2012 - 2013
Taşıt Kontrol Sistemleri, Postgraduate, 2011 - 2012
Taşıt Dinamiği, Postgraduate, 2010 - 2011
Genel Matematik-I, Undergraduate, 2010 - 2011

Advising Theses

ESKİ I., Farklı Boyutlardaki Ahşap Plakaların Macunlanma ve Boyama İşlemleri için Esnek Besleme ve İstifleme Ünitelerinin Tasarımı, Postgraduate, F.Demirci(Student), Continues
ESKİ I., Aktif Direksiyon Sistemi ile Savrulma Dinamiği Kontrolü, Postgraduate, A.Temürlek(Student), 2012

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Neural network and fuzzy logic-based hybrid attitude controller designs of a fixed-wing UAV**
Ulus Ş., Eski İ.
Neural Computing and Applications, vol.33, pp.8821-8843, 2021 (SCI-Expanded)

II. **Prediction of Walnut Mass Based on Physical Attributes by Artificial Neural Network (ANN)**
Prognose des Fruchtgewichts von Walnüssen anhand physikalischer Fruchteigenschaften mittels Künstlicher Neuronaler Netze
Demir B., ESKİ İ., GÜRBÜZ F., KUŞ Z. A., Sesli Y., ERCİŞLİ S.
Erwerbs-Obstbau, vol.62, no.1, pp.47-56, 2020 (SCI-Expanded)

III. **Prediction of damage parameters of a 3PL company via data mining and neural networks**
Gürbüz F., Eski I., Denizhan B., Dağlı C.
JOURNAL OF INTELLIGENT MANUFACTURING, vol.30, pp.1437-1449, 2019 (SCI-Expanded)

IV. **Control of unmanned agricultural vehicles using neural network-based control system**
ESKİ I., KUŞ Z. A.
Neural Computing and Applications, vol.31, pp.583-595, 2019 (SCI-Expanded)

V. **Controller design for upper limb motion using measurements of shoulder, elbow and wrist joints**
ESKİ I., KIRNAP A.
NEURAL COMPUTING & APPLICATIONS, vol.30, no.1, pp.307-325, 2018 (SCI-Expanded)

VI. **Design of Neural Network Predictor for the Physical Properties of Almond Nuts**
ESKİ I., Demir B., GÜRBÜZ F., KUŞ Z. A., Yılmaz K. U., Uzun M., ERCİŞLİ S.
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VII. **Possible Use of Data Mining for Analysis and Prediction of Apple Physical Properties**
Demir B., GÜRBÜZ F., ESKİ I., KUŞ Z. A., Yılmaz K. U., ERCİŞLİ S.
ERWERBS-OBSTBAU, vol.60, no.1, pp.1-7, 2018 (SCI-Expanded)

VIII. **Estimation of the Weights of Almond Nuts Based on Physical Properties through Data Mining**
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NOTULAE BOTANICAE HORTI AGROBOTANICI CLUJ-NAPOCA, vol.46, no.2, pp.579-584, 2018 (SCI-Expanded)

IX. **Neural network-based fuzzy inference system for speed control of heavy duty vehicles with electronic throttle control system**
ESKİ I., YILDIRIM Ş.
NEURAL COMPUTING & APPLICATIONS, vol.28, 2017 (SCI-Expanded)

X. **Estimation of the Colour Properties of Apples Varieties Using Neural Network**
KUŞ Z. A., Demir B., ESKİ I., GÜRBÜZ F., ERCİŞLİ S.
ERWERBS-OBSTBAU, vol.59, no.4, pp.291-299, 2017 (SCI-Expanded)

XI. **Prediction of Physical Parameters of Pumpkin Seeds Using Neural Network**
Demir B., ESKİ I., KUŞ Z. A., ERCİŞLİ S.
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XII. **Otonom bir traktörün yörünge kontrolü**
ESKİ I.
Fırat Üniversitesi Sosyal Bilimler Dergisi, vol.28, no.2, pp.241-245, 2016 (SCI-Expanded)

XIII. **Design of Neural Network Control System for Controlling Trajectory of Autonomous Underwater Vehicles**
ESKİ I., YILDIRIM Ş.
INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS, vol.11, 2014 (SCI-Expanded)

XIV. **Design of neural network-based control systems for active steering system**
ESKİ I., Temuerlenk A.
NONLINEAR DYNAMICS, vol.73, no.3, pp.1443-1454, 2013 (SCI-Expanded)

XV. **Design of adaptive neural predictor for failure analysis on hip and knee joints of humans**
YILDIRIM Ş., ESKİ I., POLAT Y.
NEURAL COMPUTING & APPLICATIONS, vol.23, no.1, pp.73-87, 2013 (SCI-Expanded)

XVI. **Vibration analysis of drilling machine using proposed artificial neural network predictors**
Eski I.
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.26, no.10, pp.3037-3046, 2012 (SCI-Expanded)

XVII. **Fault detection on robot manipulators using artificial neural networks**
ESKİ I., Erkaya S., SAVAŞ S., YILDIRIM Ş.
ROBOTICS AND COMPUTER-INTEGRATED MANUFACTURING, vol.27, no.1, pp.115-123, 2011 (SCI-Expanded)

XVIII. **Noise analysis of robot manipulator using neural networks**
YILDIRIM Ş., ESKİ I.
ROBOTICS AND COMPUTER-INTEGRATED MANUFACTURING, vol.26, no.4, pp.282-290, 2010 (SCI-Expanded)

XIX. **Vibration analysis of an experimental suspension system using artificial neural networks**
YILDIRIM Ş., ESKİ I.
JOURNAL OF SCIENTIFIC & INDUSTRIAL RESEARCH, vol.68, no.6, pp.522-529, 2009 (SCI-Expanded)

XX. **Vibration control of vehicle active suspension system using a new robust neural network control system**
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SIMULATION MODELLING PRACTICE AND THEORY, vol.17, no.5, pp.778-793, 2009 (SCI-Expanded)

XXI. **Noise and Vibration Analysis of Car Engines using Proposed Neural Network**
YILDIRIM Ş., Erkaya S., ESKİ I., UZMAY I.
JOURNAL OF VIBRATION AND CONTROL, vol.15, no.1, pp.133-156, 2009 (SCI-Expanded)

XXII. **Force analysis of bearings on a modified mechanism using proposed recurrent hybrid neural networks**
YILDIRIM Ş., ESKİ I., Kalkat M.

JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.22, no.7, pp.1323-1329, 2008 (SCI-Expanded)

XXIII. **Design of neural predictor for noise analysis of passenger car's engines**
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XXIV. **Sound quality analysis of cars using hybrid neural networks**
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XXV. **Design of artificial neural network model for analysing of a self-acting parallel surface thrust bearing**
Yildirim S., Eski I., Kurban A. O.
INDUSTRIAL LUBRICATION AND TRIBOLOGY, vol.59, pp.69-76, 2007 (SCI-Expanded)

XXVI. **A QP artificial neural network inverse kinematic solution for accurate robot path control**
Yildirim S., Eski I.
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I. **Data Mining Approach For Prediction Of Fruit Color Properties**
Demir B., GÜRBÜZ F., ESKİ I., KUŞ Z. A.
Atatürk Üniversitesi Ziraat Fakültesi Dergisi, vol.49, no.1, pp.37-43, 2018 (Peer-Reviewed Journal)

II. **PID Controller Design for Human Elbow Therapy**
Eski İ., Kırnap A., Kırnap M.
International Journal of Applied Mathematics, Electronics and Computers, vol.4, pp.282-285, 2016 (Peer-Reviewed Journal)

III. **Gain Parameter Adjustment Methods Comparison of Controller for Autonomous Rehabilitation Device**
Eski İ., Kırnap A.
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Books & Book Chapters

I. **Design of Artificial Neural Network Predictors in Mechanical Systems Problems**
YILDIRIM Ş., TOPAL E. S., ESKİ İ.
in: Design of Artificial Neural Network Predictors in Mechanical Systems Problems, Nova Publishers, Editor, Nova Publisher, Newyork, 2011

II. **The Noise and Acceleration Analysis of an Experimental Robot Manipulator Using Radial Basis Function Neural Network**
YILDIRIM Ş., ESKİ İ.
in: New Development of Manufacturing Robotic Systems and Automation,, Zhang D., Gao Z., Editor, Bentham Science Publisher, Bussum, 2011

III. **Noise and Acceleration Analysis of an Experimental Robot Manipulator Using Proposed Neural Networks**
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in: New Development of Manufacturing Robotic Systems and Automation, Dhan Zhang, Zhen Gao, Editor, Bentham Science Publisher, Kanada, pp.1-36, 2011

Refereed Congress / Symposium Publications in Proceedings

I. Genetic Algorithm Based PID Parameter Optimization for Longitudinal Dynamics of a Fixed Wing Mini UAV
Ulus Ş., Eski İ.
1st Workshop IFToMM for Sustainable Development Goals, I4SDG 2021, Virtual, Online, 25 - 26 November 2021, vol.108 MMS, pp.325-334

II. Thermal stresses analysis in cylinder head of a spark ignition engine fueled with ethanol-gasolineusing artificial neural networks
YILDIRIM Ş., ESKİ İ., UZUNEANU K.
8th International Conference on Advanced Technologies, Saraybosna, Bosnia And Herzegovina, 26 - 30 August 2019, pp.39-45

III. Thermal Stress Analysis in Cylinder Head of A Spark Ignition Engine Fueled with Ethanol Gasoline Using Artificial Neural Networks
YILDIRIM Ş., ESKİ İ.
8th International Conference on Advanced Technologies, 26 - 30 August 2019

IV. Fruit Mass Estimator Based on Physical Attributes by Feed Forward Neural Network
demir B., ESKİ I., GÜRBÜZ F., KUŞ Z. A.
INTERNATIONAL CONGRESS ON ENGINEERING AND LIFE SCIENCE, Kastamonu, Turkey, 26 April - 29 December 2018, vol.1, pp.508

V. LATERAL AND LONGITUDINAL DYNAMICS CONTROL OF A FIXED WING UAV BY USING PID CONTROLLER
Ulus Ş., Eski İ.
4th International Conference on Engineering and Natural Sciences (ICENS), Kyyiv, Ukraine, 2 - 06 May 2018, pp.994-1002

VI. VERİ MADENCİLİĞİ İLE ELMALARIN RENK ÖZELLİKLERİNİ TANIMLAMA
GÜRBÜZ F., ESKİ İ., DEMİR B., KUŞ Z. A.
II. INTERNATIONALSCIENTIFIC AND VOCATIONALSTUDIES CONGRESS (BILMES 2018), 5 - 08 July 2018

VII. MEYVELERDE FİZİKSEL ÖZELLİKLERİN TAHMİNİ
GÜRBÜZ F., ESKİ İ., KUŞ Z. A., DEMİR B.
II. International Scientific and Vocational Studies Congress, Nevşehir, Turkey, 5 - 08 July 2018, pp.415

VIII. PREDICTION OF DAMAGE PARAMETERS OF 3PLS COMPANIES USING ARTIFICIAL NEURAL NETWORKS
ESKİ I., GÜRBÜZ F., Denizhan B.
II. International Scientific and Vocational Studies Congress, Nevşehir, Turkey, 5 - 08 July 2018, vol.1, pp.784-788

IX. PREDICTON THE KERNEL WEIGHT OF THE ALMOND NUT VIA FINDLAWS ENGINE
GÜRBÜZ F., ESKİ İ., DEMİR B., KUŞ Z. A.
IV INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES (ICENS), 2 - 06 May 2018

X. Design of Fuzzy Logic Controller for Dynamic State Variables of a Fixed Wing UAV
ULUS Ş., ESKİ I.
4th International Conference on Engineering and Natural Sciences, Kiev, Ukraine, 2 - 06 May 2018, pp.1

XI. Lateral and Longitudinal Dynamics Control of a Fixed Wing UAV by using PID Controller
ULUS Ş., ESKİ I.
4TH INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCE, Kiev, Ukraine, 2 - 06 May 2018, vol.1, pp.994-1002

XII. Design of Fuzzy Logic Controller for Dynamic State Variables of a Fixed Wing UAV
Ulus Ş., Eski İ.
4th. International Conference on Engineering and Natural Sciences (ICENS), Kyyiv, Ukraine, 2 - 06 May 2018, pp.418

XIII. Artificial Neural Network Structures to Forecast Physical Attributes of Different Agricultural Products
demir B., ESKİ I., GÜRBÜZ F., KUŞ Z. A.
INTERNATIONAL CONGRESS ON ENGINEERING AND LIFE SCIENCE, Kastamonu, Turkey, 26 - 29 April 2018, vol.1, pp.382

XIV. **Control of front-wheel steering angle of unmanned agricultural vehicles with ANN-Based control system**
KUŞ Z. A., ESKİ I.
International Conference on Technology, Engineering and Science, Antalya, Turkey, 26 October - 29 November 2017, pp.124

XV. **ESTIMATION OF PUMPKIN SEEDS PARAMETERS USING ARTIFICIAL NEURAL NETWORK**
ESKİ I., Demir B., KUŞ Z. A.
International Conference on Advance in Science:ICAS2017, İstanbul, Turkey, 13 - 15 September 2017, vol.1, pp.141-145

XVI. **Neural network based PID controller design for human elbow therapy system**
ESKİ I., KIRNAP A., KIRNAP M.
International Conference on Advance in Science:ICAS2017, İstanbul, Turkey, 13 - 15 September 2017, vol.1, pp.147-153

XVII. **DESIGN OF NEURAL NETWORK ESTIMATOR FOR THE PHYSICAL PROPERTIES OF ALMOND NUTS**
ESKİ İ., GÜRBÜZ F., DEMİR B., KUŞ Z. A.
INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE: ICAS2017, İstanbul, Turkey, 13 - 15 September 2017, pp.146

XVIII. **Potential Use of General Regression Neural Network to Estimate Colour Parameters of Apples**
DEMİR B., KUŞ Z. A., ESKİ İ., GÜRBÜZ F.
International Conference on Agriculture, Forest, Food,Sciences and Technologies, Nevşehir, Turkey, 15 - 17 May 2017, pp.272

XIX. **Radial Basis Neural Networks (RBNN) for the Weight Prediction of Walnut (Juglans regia L.) Cultivars**
KUŞ Z. A., DEMİR B., GÜRBÜZ F., ESKİ İ.
International Conference on Agriculture, Forest, Food,Sciences and Technologies, Nevşehir, Turkey, 15 - 17 May 2017, pp.230

XX. **Weight Prediction of Maras-18 Walnut (Juglans regia L.) Cultivar Using Modular and Radial Basis Neural Networks**
KUŞ Z. A., DEMİR B., GÜRBÜZ F., ESKİ İ.
International Conference on Agriculture, Forest, Food,Sciences and Technologies, Nevşehir, Turkey, 15 - 17 May 2017, pp.283

XXI. **Adaptive Neuro-Fuzzy Inference System (ANFIS) Approach for Prediction of the Colour Features of Apple Fruits**
DEMİR B., KUŞ Z. A., ESKİ İ., GÜRBÜZ F.
International Conference on Agriculture, Forest, Food,Sciences and Technologies, Nevşehir, Turkey, 15 - 17 May 2017, pp.180

XXII. **TORQUE CONTROL OF HUMAN WRIST THERAPY**
ESKİ I., KIRNAP A., KIRNAP M.
INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE AND ARTS ISTANBUL 2017, İstanbul, Turkey, 29 - 31 March 2017, pp.139-145

XXIII. **ANGULAR DISPLACEMENT CONTROLLER DESIGN FOR HUMAN ELBOW PASSIVE THERAPEUTIC EXERCISES**
ESKİ I., KIRNAP A., KIRNAP M.
INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE AND ARTS ISTANBUL 2017, İstanbul, Turkey, 29 - 31 March 2017, pp.132-138

XXIV. **PID Controller Design for Human Elbow Therapy**
ESKİ I., KIRNAP A., KIRNAP M.
International Conference on Advanced Technology & Sciences (ICAT'16), Konya, Turkey, 1 - 03 September 2016, pp.1011-1014

XXV. **Gain parameter adjusment methods comparison of controller for autonomous rehabilitation device**
ESKİ İ., KIRNAP A.

International conference on advanced technology&Science, Konya, Turkey, 1 - 03 September 2016, vol.1, pp.1015-1019

XXVI. **Gain Parameter Adjustment Methods Comparison of Controller for Autonomous Rehabilitation Device**
ESKİ I., KIRNAP A.
International Conference on Advanced Technology & Sciences (ICAT'16), Konya, Turkey, 1 - 03 September 2016, pp.1015-1019

XXVII. **Desing of Neural Network Based Fuzzy Inference System for Speed Control of Heavy Duty Vehicles with Electronic Throttle Control System**
ESKİ İ., YILDIRIM Ş.
15th International Conference on Circuits, Systems, Electronics, Control & Signal Processing, İstanbul, Turkey, 15 April - 17 June 2016, vol.1, pp.128-132

XXVIII. **CONTROLLER DESIGN FOR PATIENTS WHO HAS MALFUNCTION AT EXTREMITY**
ESKİ I., KIRNAP A., KIRNAP M.
CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2016 – ICAME2016, İstanbul, Turkey, 11 - 13 May 2016, pp.313-318

XXIX. **DESIGN OF ROBUST CONTROL SYSTEM FOR CONTROLLING TRAJECTORY OF AUTONOMOUS TRACTOR**
ESKİ I.
CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2016 – ICAME2016, İstanbul, Turkey, 11 - 13 May 2016, pp.326-330

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ESKİ İ.
2ND INTERNATIONAL CONFERENCE ON ADVANCES INMECHANICAL ENGINEERING, 11 - 13 May 2016, vol.1, pp.166-170

XXXI. **Control of Heavy Duty Vehicles with Electronic Throttle Control System**
ESKİ İ., YILDIRIM Ş.
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XXXII. **Control of Autonomous Underwater Vehicles using Neural Network Based Robust Control System**
ESKİ I., YILDIRIM Ş.
15th International Conference on CIRCUITS, SYSTEMS, ELECTRONICS, CONTROL &SIGNAL PROCESSING (CSECS '16), İstanbul, Turkey, 15 - 17 April 2016, pp.157-181

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ESKİ İ., YILDIRIM Ş.
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XXXIV. **Otonom Sualtı Taşıtların Yörünge Kontrolü İçin Yapay Sinir Ağı Kontrol Sistemi Tasarımı**
ESKİ İ., YILDIRIM Ş., KIRNAP A.
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XXXV. **AKTİF DİREKSİYON SİSTEMİNİN KONTROLÜ İÇİN YAPAY SİNİR AĞI ESASLI KONTROL SİSTEMİ TASARIMI**
ESKİ I., Temürlenk A.
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XXXVI. **Otonom Sualtı Taşıtların Yörünge Kontrolü için Yapay Sinir Ağı Kontrol Sistemi Tasarımı**
YILDIRIM Ş., ESKİ I.
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XXXVII. **SPEED RATIO CONTROL OF PULLEY BASED V-BELT TYPE CONTINUOUSLY VARIABLE TRANSMISSION (CVT) USING FUZZY LOGIC CONTROLLER**
ESKİ I., Gürgenç T.
INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2015, İstanbul, Turkey, 13 - 15 May 2015, pp.783-790

XXXVIII. Yapay Sinir ağları Kullanarak İnsan Kalça ve Diz Eklemlerinin Titreşim Analizi
YILDIRIM Ş., ESKİ İ., POLAT Y.
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XXXIX. FAILURE ANALYSIS ON HIP AND KNEE JOINTS OF HUMANS USING PROPOSED FEED FORWARD
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YILDIRIM Ş., ESKİ İ., Polat Y.
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XLI. Yapay Sinir Ağları Kullanarak Robot Manipülatörlerinde Hata Tespiti
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ESKİ İ.
15. Ulusal Makine Teorisi Sempozyumu, Niğde, Turkey, 1 - 04 June 2011, pp.281-286

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YILDIRIM Ş., ESKİ İ.
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XLVII. Gürbüz Yapay Sinir Ağı Kontrol Sistemi Kullanarak Taşıt Aktif Süspansiyon Sisteminin Titreşim
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XLVIII. İLERİ-GERİ BESLEMELİ KARMA YAPAY SİNİR AĞLARI KULLANARAK MODİFİYE EDİLMİŞ BİR
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XVI. Ulusal Mekanik Kongresi, Kayseri, Turkey, 1 - 04 June 2009, pp.1-8

XLIX. Design of Neural Network Analyser for Vibration Prediction of a Robot Manipulator
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L. Yapay Sinir Ağları Kullanarak Prototip Aktif Süspansiyon Sisteminin Titreşim Kontrolü
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YILDIRIM Ş., ESKİ İ.
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13. Ulusal Makina Teorisi Sempozyumu, Attendee, Sivas, Turkey, 2007

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