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Personal Information

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Research Areas

Biomedical Engineering, Electrical and Electronics Engineering, Engineering and Technology

Academic and Administrative Experience

Unit Accreditation Board Member, TED University, Faculty Of Engineering, Dept.Of Electric&Electronics Engineering, 2024 - Continues

Member of Department Promotion and Alumni Relations Commission, TED University, Faculty Of Engineering, Dept.Of Electric&Electronics Engineering, 2023 - Continues

Courses

Microprocessors, Undergraduate, 2023 - 2024

Measurement and Instrumentation, Undergraduate, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **ANALYSIS OF GAIT MOTION EQUATIONS AND APPLICATION OF PROPORTIONAL DERIVATIVE CONTROL FOR ELECTRONIC ABOVE KNEE PROSTHESIS**
Akdogan K. E., Yilmaz A.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.31, no.1, pp.201-209, 2016 (SCI-Expanded)
- II. **Optimum temporal update periods for regional ionosphere monitoring**
Sayin I., ARIKAN F., Akdogan K. E.
Radio Science, vol.45, no.6, 2010 (SCI-Expanded)
- III. **Regional TEC mapping using neural networks**
YILMAZ A., Akdogan K. E., Gurun M.
Radio Science, vol.44, no.3, 2009 (SCI-Expanded)
- IV. **Application of conformal transformation to elliptic geometry for electric impedance tomography**
YILMAZ A., Akdoğan K. E., SAKA TANATAR B.
Medical Engineering and Physics, vol.30, no.2, pp.144-153, 2008 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Gait measurement using Radial Basis Function Networks and comparison of its performance with analytical methods** Radyal tabanlı fonksiyon ağırları ile yürüyüş hareketinin ölçümü ve analitik

yöntemlerle başarımının karşılaştırılması

Akdoğan K. E., YILMAZ A.

2014 18th National Biomedical Engineering Meeting, BIYOMUT 2014, İstanbul, Turkey, 16 - 17 October 2014

- II. **Design of semi active knee joint with magnetorheological (MR) damper Magnetorheological (MR) silindir sönümlü yarı etkin diz eklemi tasarımı**
Akdoğan K. E., YILMAZ A., Sadeghimorad A., Şahin I.
2012 20th Signal Processing and Communications Applications Conference, SIU 2012, Fethiye, Muğla, Turkey, 18 - 20 April 2012
- III. **Analysis of direct motion measurement system for design of above knee prosthesis**
Erinc Akdoğan K. E., YILMAZ A.
2010 8th IEEE International Conference on Virtual Environments, Human-Computer Interfaces, and Measurement Systems, VECIMS 2010, Taranto, Italy, 6 - 08 September 2010, pp.56-59
- IV. **Development of motion measurement systems for electronic above knee prosthesis Elektronik diz üstü protezleri için hareket ölçüm düzenekleri geliştirimi**
Akdoğan K. E., YILMAZ A.
2010 15th National Biomedical Engineering Meeting, BIYOMUT2010, Antalya, Turkey, 21 - 24 April 2010
- V. **Simulations of knee angle control in dynamical gait model for above knee prosthesis Diz üstü protezler için yürüyüş dinamik modelinde diz açısı denetiminin benzetimleri**
Akdoğan K. E., YILMAZ A., Duman Ş.
2009 IEEE 17th Signal Processing and Communications Applications Conference, SIU 2009, Antalya, Turkey, 9 - 11 April 2009, pp.600-603
- VI. **Investigation of optimum temporal update periods for regional TEC monitoring**
Sayın I., Akdoğan K. E., ARIKAN F.
4th International Conference on Recent Advances in Space Technologies 2009, RAST '09, İstanbul, Turkey, 11 - 13 June 2009, pp.675-679
- VII. **Regional ionosphere mapping by using neural networks**
Gürün M., Akdoğan K. E., YILMAZ A.
3rd International Conference on Recent Advances in Space Technologies, RAST 2007, İstanbul, Turkey, 14 - 16 June 2007, pp.44-49
- VIII. **Regional ionosphere mapping by using neural networks Yapay sinir ağıları kullanılarak bölgesel iyonosfer haritalaması**
Gürün M., Akdoğan K. E., YILMAZ A.
2007 IEEE 15th Signal Processing and Communications Applications, SIU, Eskişehir, Turkey, 11 - 13 June 2007
- IX. **Application of conformal transformation on the analysis of forward problems in electrical impedance tomography**
Akdoğan K. E., Yılmaz A., Saka B.
PROCEEDINGS OF THE IEEE 12TH SIGNAL PROCESSING AND COMMUNICATIONS APPLICATIONS CONFERENCE, pp.168-171
- X. **ANALYSIS OF FORWARD PROBLEM FOR ELLIPTICAL GEOMETRY IN EIT BY USING ANALYTICAL AND FINITE ELEMENT METHODS**
Akdoğan K. E., YILMAZ A., SAKA TANATAR B.
46th IEEE International Midwest Symposium on Circuits and Systems, MWSCAS 2003, Cairo, Egypt, 27 - 30 December 2003, vol.1, pp.372-375