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Personal Information

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Avcılar/İSTANBUL



Education Information

Doctorate, İstanbul Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, Turkey 2016 - Continues

Post Graduate, İstanbul Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği Anabilim Dalı, Turkey 2014 - 2016

Under Graduate, İstanbul Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 2010 - 2014

Certificates, Courses and Trainings

Vocational Training, Ziyaretçi Araştırmacı, Karlsruhe Institute of Technology, 2019

Dissertations

Post Graduate, Oral Cerrahide Kullanılmak Üzere Yeni Bir Doku Sabitleme Sisteminin Geliştirilmesi, İstanbul Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği Abd, 2016

Research Areas

Biomedical Engineering, Biomechanics, Mechanical Engineering, Engineering and Technology

Academic Titles / Tasks

Research Assistant, İstanbul Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2018 - Continues

Lecturer, Haliç Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2016 - 2017

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **SENSITIVITY OF MODEL-PREDICTED MUSCLE FORCES OF PATIENTS WITH CEREBRAL PALSY TO VARIATIONS IN MUSCLE-TENDON PARAMETERS**
Arslan Y. Z., KARABULUT D.
JOURNAL OF MECHANICS IN MEDICINE AND BIOLOGY, vol.21, no.1, 2021 (Journal Indexed in SCI)
- II. **Direct Validation of Model-Predicted Muscle Forces in the Cat Hindlimb During Locomotion**
Karabulut D., Doğru S. C., Lin Y., Pandy M., Herzog W., Arslan Y. Z.

Journal Of Biomechanical Engineering-Transactions Of The Asme, vol.142, no.5, pp.1-13, 2020 (Journal Indexed in SCI)

- III. **Biomechanical comparison of implantation approaches for the treatment of mandibular total edentulism**
Arslan Y. Z. , Karabulut D., Kahya S., CANSIZ E.
Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020 (Journal Indexed in SCI)
- IV. **Experimental investigation of biodynamic human body models subjected to whole-body vibration during a vehicle ride.**
Taskin Y., Hacioglu Y., Ortes F., Karabulut D., Arslan Y. Z.
International journal of occupational safety and ergonomics : JOSE, vol.25, pp.530-544, 2019 (Journal Indexed in SSCI)
- V. **Force irradiation effect of kinesiotaping on contralateral muscle activation.**
Denizoglu K., Karabulut D., SAKA T., AKAN A., Arslan Y. Z.
Human movement science, vol.66, pp.310-317, 2019 (Journal Indexed in SCI)
- VI. **Gait Analysis of Patients Subjected to the Atrophic Mandible Augmentation with Iliac Bone Graft**
Cansiz E., Karabulut D., Dogru S. C. , Akalan N. E. , Temelli Y., Arslan Y. Z.
APPLIED BIONICS AND BIOMECHANICS, 2019 (Journal Indexed in SCI)
- VII. **Evaluation of the gait characteristics of the patients subjected to iliac crest bone grafting**
CANSIZ E., KARABULUT D., DOĞRU S. C. , ARSLAN Y. Z. , TEMELLİ Y., AKALAN N. E.
INTERNATIONAL JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY, vol.46, no.1, pp.176, 2017 (Journal Indexed in SCI)
- VIII. **Comparative evaluation of EMG signal features for myoelectric controlled human arm prosthetics**
Karabulut D., Ortes F., Arslan Y. Z. , Adli M. A.
BIOCYBERNETICS AND BIOMEDICAL ENGINEERING, vol.37, no.2, pp.326-335, 2017 (Journal Indexed in SCI)

Books & Book Chapters

- I. **Exoskeletons, exomusculatures, space suits**
Arslan Y. Z. , Karabulut D., Örtes F.
in: Biomechatronics, Marko Popovic, Editor, Academic Press , London, pp.305-331, 2019
- II. **General Perspectives on Electromyography Signal Features and Classifiers Used for Control of Human Arm Prosthetics**
Örtes F., Karabulut D., Arslan Y. Z.
in: Encyclopedia of Information Science and Technology, Mehdi Khosrow-Pour, Editor, IGI Global Publications, Pennsylvania, pp.492-504, 2018

Refereed Congress / Symposium Publications in Proceedings

- I. **Modeling and simulation of the musculoskeletal system of the cat hind limb in Opensim**
KARABULUT D., DOĞRU S. C. , LIN Y., PANDY M., HERZOG W., ARSLAN Y. Z.
8th World Congress of Biomechanics, Dublin, Ireland, 8 - 12 July 2018, pp.1
- II. **Estimation of In Vivo Muscle Forces Using Artificial Neural Networks and EMG Signals**
ÖRTEŞ F., KARABULUT D., ARSLAN Y. Z. , HERZOG W.
8. Ulusal Biyomekanik Kongresi, Ankara, Turkey, 31 March - 03 April 2017, pp.17
- III. **Evaluation of gait characteristics of patient subjected to the atrophic jaw augmentation**
KARABULUT D., DOĞRU S. C. , CANSIZ E., ARSLAN Y. Z. , AKALAN N. E. , TEMELLİ Y.
8. Ulusal Biyomekanik Kongresi, Ankara, Turkey, 31 March - 03 April 2017, pp.17
- IV. **Evaluation of the gait characteristics of the patients subjected to iliac crest bone grafting**

CANSIZ E., DOĞRU S. C. , KARABULUT D., AKALAN N. E. , ARSLAN Y. Z. , TEMELLİ Y.

23rd International Conference on Oral and Maxillofacial Surgery, Hongkong, Hong Kong, 31 March - 03 April 2017, pp.17-177

- V. **Estimation of In Vivo Muscle Forces Using Artificial Neural Networks and EMG Signals**
ÖRTEŞ F., KARABULUT D., ARSLAN Y. Z. , HERZOG W.
8. Ulusal Biyomekanik Kongresi, Ankara, Turkey, 19 - 23 October 2016, pp.1
- VI. **Development of a computational musculoskeletal model of the cat hind limb**
Karabulut D., DOĞRU S. C. , ARSLAN Y. Z. , Li Y. C. , Pandy M., Herzog W.
International Conference of the Polish Society of Biomechanics-BIOMECHANICS 2016, Biala Podlaska, Poland, 5 - 07 September 2016, pp.1-2
- VII. **Evaluation Of Preoperative And Postoperative Gait Analyses Of Patients Subjected To Iliac Crest Augmentation For The Treatment Of Maxillary Alveolar Atrophy**
CANSIZ E., DOĞRU S. C. , Karabulut D., ARSLAN Y. Z. , TEMELLİ Y., AKALAN N. E.
TOAMS 2016, Muğla, Turkey, 26 - 30 May 2016, pp.34
- VIII. **Extraction and Classification of EMG signal features for the human arm prosthetics**
ÖRTEŞ F., Karabulut D., ARSLAN Y. Z.
BİYOMUT, İstanbul, Turkey, 6 - 07 November 2015, pp.1-4
- IX. **İnsan Kolu Protezleri için EMG Sinyallerinin Özniteliklerinin Elde Edilmesi ve Sınıflandırılması**
ÖRTEŞ F., Karabulut D., ARSLAN Y. Z.
BİYOMUT, İstanbul, Turkey, 5 - 06 November 2015, pp.1-4
- X. **Evaluation of gait characteristics of patient subjected to the atrophic jaw augmentation**
Karabulut D., DOĞRU S. C. , CANSIZ E., ARSLAN Y. Z. , AKALAN N. E. , TEMELLİ Y.
International Conference on Electrical, Computer, Mechanical and Mechatronics Engineering, İstanbul, Turkey, 27 August - 28 November 2015, pp.1-5
- XI. **Development and Validation of a Computational Musculoskeletal Model of the Cat Hind Limb**
Karabulut D., Dogru S. C. , Arslan Y. Z. , Lin Y., Pandy M., Herzog W.
19th National Biomedical Engineering Meeting (BIYOMUT), İstanbul, Turkey, 5 - 06 November 2015

Scientific Refereeing

JOURNAL OF MECHANICS IN MEDICINE AND BIOLOGY, Journal Indexed in SCI-E, July 2020

BMC MUSCULOSKELETAL DISORDERS, Journal Indexed in SCI-E, October 2019

Journal of Mechanics in Medicine and Biology, SCI Journal, January 2019

IEEE Access, SCI Journal, January 2018

Citations

Total Citations (WOS):18

h-index (WOS):2

Scholarships

TÜBİTAK 2211/C Öncelikli Alanlar Doktora Burs Programı, TUBİTAK, 2018 - Continues

Araştırma Görevlileri İçin Yurt Dışı Araştırma Bursları (YUDAB), YOK, 2019 - 2020

TÜBİTAK 2210/C Öncelikli Alanlar Yüksek Lisans Burs Programı, TUBİTAK, 2015 - 2016

TÜBİTAK Münir Bırsel Lisansüstü Bursu, TUBİTAK, 2014 - 2015