

Assoc. Prof. Yunus Ziya ARSLAN

Personal Information

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Biography

Yunus Ziya Arslan received the B.S. degree in 2002, the M.S. degree in 2005, and the Ph.D. degree in 2009 all from the Department of Mechanical Engineering, Faculty of Engineering, Istanbul University, Turkey. He spent six months at the University of Calgary as a Visitor Researcher. He serves currently as an Associate Professor at the Department of Mechanical Engineering, Faculty of Engineering, Istanbul University. His research areas include musculoskeletal biomechanics, dental biomechanics, tissue biomechanics, computational biomechanics, and modeling and control of robotic manipulators.

Education Information

Doctorate, Istanbul University, Institute of Graduate Studies In Sciences, Makine Mühendisliği Abd, Turkey 2005 - 2009

Postgraduate, Istanbul University, Institute of Graduate Studies In Sciences, Makine Mühendisliği Abd, Turkey 2002 - 2005

Undergraduate, Istanbul University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 1998 - 2002

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Health&Medicine, First European Computational Motor Control Summer School, Montpellier, Fransa (Organizer: Dr. Nicolas Schweighofer, Dr. Denis Mottet), 2014

Education Management and Planning, Motor Control Summer School-XI, Bled, Slovenia (Organizer: Dr. Mark Latash), 2014

Health&Medicine, SpineFX Workshop: Research Management Skills for the Biomedical Engineer, Leeds Üniversitesi, İngiltere, 2011

Education Management and Planning, Ziyaretçi Araştırmacı, University of Calgary, Faculty of Kinesiology, 2008

Dissertations

Doctorate, Kas iskelet sisteminin mekaniği ve kuvvet optimizasyonu analizi, Istanbul University, Institute of Graduate Studies In Sciences, Makine Mühendisliği Abd, 2009

Postgraduate, İnsanın iki kolunun ortak hareketi esnasında oluşan eklem momentlerinin elektromyografi sinyalleri yardımıyla analizi, Istanbul University, Institute of Graduate Studies In Sciences, Makine Mühendisliği Abd, 2005

Research Areas

Biomedical Engineering, Biomechanics, Mechanical Engineering, Machine Theory and Dynamics, Robotics, Modeling and Simulation of Dynamic Systems, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Istanbul University, Mühendislik Fakültesi, Makine Mühendisliği, 2015 - Continues

Assistant Professor, Istanbul University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2010 - Continues

Research Assistant, Istanbul University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2002 - 2009

Courses

Strength of Materials, Undergraduate, 2016 - 2017

Sporda Uygulamalı Hareket Analizleri, Doctorate, 2016 - 2017

Tissue Biomechanics, Doctorate, 2016 - 2017

Robotiğe Giriş, Undergraduate, 2016 - 2017

Sporda Biyomekanik Analizler, Doctorate, 2016 - 2017

Biomechanics, Postgraduate, 2016 - 2017, 2014 - 2015

Sporda Biyomekanik Analizler, Doctorate, 2015 - 2016

Mukavemet, Undergraduate, 2015 - 2016

Mukavemet, Undergraduate, 2014 - 2015

Biomechanics, Undergraduate, 2014 - 2015

Seminer, Doctorate, 2015 - 2016

Advanced Biomechanics, Postgraduate, 2014 - 2015

Robotiğe Giriş, Undergraduate, 2014 - 2015

Sporda Uygulamalı Hareket Analizi , Doctorate, 2015 - 2016

Biyomekanik, Undergraduate, 2013 - 2014

Metalurji Mühendisleri için Mukavemet, Undergraduate, 2012 - 2013

Advising Theses

ARSLAN Y. Z., Kinezyolojik Bantlama ve Kontralateral Kuvvet Yayılımı Arasındaki İlişkinin Belirlenmesi, Doctorate, H.Denizoğlu(Student), Continues

ARSLAN Y. Z., Titreşime Maruz Kalan İnsan Vücudunun Omurga Bölgesinin Biyomekanik Analizi, Doctorate, S.Cansel(Student), Continues

ARSLAN Y. Z., Mandibular Toplam Dişsizlik Tedavisinde Kullanılan Dental İmplantların Farklı Yerleşim Kombinasyonlarının Analizi, Postgraduate, S.Kahya(Student), Continues

ARSLAN Y. Z., Fleksör Tendon Yaralanması Olan Hastalarda Ultrasonografi Kullanarak Tendon Kaymasının Ölçülmesi, Postgraduate, B.Ay(Student), Continues

ARSLAN Y. Z., İskelet Kaslarının Modellenmesi ve Biyomekanik Analizi, Doctorate, F.Örteş(Student), Continues

ARSLAN Y. Z., Dinamik Kasılma Esnasındaki Kas Koordinasyonunun Biyomekanik Analizi, Doctorate, N.Korkmaz(Student), Continues

ARSLAN Y. Z., Kronik Venöz Yetmezliği Olan Hastalar için Yeni Bir Kompresyon Çorabı Tasarımı, Postgraduate, S.Karakoç(Student), Continues

ARSLAN Y. Z., İnsan Elinin Pozisyon ve Kuvvetlerinin Kestirimi Amacıyla EMG Sinyallerinin Sınıflandırılması, Postgraduate, R.Yılmaz(Student), 2017
YAĞIZ N., ARSLAN Y. Z., Dinamik Kasılma Esnasındaki Kas Koordinasyonunun Biyomekanik Analizi, Doctorate, N.Korkmaz(Student), 2017
ARSLAN Y. Z., Spina Bifida Hastalığı olan Çocuklar için Ayak-Ayak Bileği Ortezi Tasarımı, Doctorate, K.Sürmen(Student), 2016
ARSLAN Y. Z., Oral Cerrahide Kullanılmak Üzere Yeni Bir Doku Sabitleme Sisteminin Geliştirilmesi, Postgraduate, D.Karabulut(Student), 2016

Jury Memberships

Doctoral Examination, Doktora yeterlilik jürisi, Boğaziçi Üniversitesi Makine Mühendisliği Bölümü, February, 2017
Doctorate, Doktora tez savunma jürisi , İsanbul Üniversitesi Dış Hekimliği Fakültesi, August, 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Machine learning-based prediction of joint moments based on kinematics in patients with cerebral palsy**
Ozates M. E., KARABULUT D., Salami F., Wolf S. I., Arslan Y. Z.
JOURNAL OF BIOMECHANICS, 2023 (SCI-Expanded)
- II. **Patellar Tendon Advancement for the Treatment of Crouch Gait in Patients with Cerebral Palsy**
KARABULUT D., Arslan Y. Z., Salami F., Wolf S., Goetze M.
GAIT & POSTURE, pp.11-12, 2023 (SCI-Expanded)
- III. **Predicting Joint Moments from Kinematics in Patients with Cerebral Palsy using Deep Learning**
Ozates M. E., Karabulut D., Salami F., Wolf S., Arslan Y. Z.
GAIT & POSTURE, pp.28-29, 2023 (SCI-Expanded)
- IV. **The prolonged effect of Kinesio Taping on joint torque and muscle activity**
Kulli H. D., KARABULUT D., Arslan Y. Z.
SOMATOSENSORY AND MOTOR RESEARCH, no.1, pp.39-45, 2023 (SCI-Expanded)
- V. **Sensitivity of muscle force response of a two-state cross-bridge model to variations in model parameters**
ÖRTEŞ F., Jinha A., Herzog W., Arslan Y. Z.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART H-JOURNAL OF ENGINEERING IN MEDICINE, vol.236, no.10, pp.1513-1520, 2022 (SCI-Expanded)
- VI. **Evaluation of various design concepts in passive ankle-foot orthoses using finite element analysis**
SÜRMEH H. K., Arslan Y. Z.
ENGINEERING SCIENCE AND TECHNOLOGY-AN INTERNATIONAL JOURNAL-JESTECH, vol.24, no.6, pp.1301-1307, 2021 (SCI-Expanded)
- VII. **Biomechanical assessment of patellar tendon advancement in patients with cerebral palsy and crouch gait**
KARABULUT D., Arslan Y. Z., Salami F., Wolf S., Gotze M.
KNEE, vol.32, pp.46-55, 2021 (SCI-Expanded)
- VIII. **The Impact of Patellar Tendon Advancement on Knee Joint Moment and Muscle Forces in Patients with Cerebral Palsy**
KARABULUT D., Arslan Y. Z., Gotze M., Wolf S.
LIFE-BASEL, vol.11, no.9, 2021 (SCI-Expanded)
- IX. **Effect of Model Parameters on the Biomechanical Behavior of the Finite Element Cervical Spine Model**
DOĞRU S. C., Arslan Y. Z.

APPLIED BIONICS AND BIOMECHANICS, vol.2021, 2021 (SCI-Expanded)

- X. **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 (SCI-Expanded)
- XI. **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, vol.234, no.10, pp.1139-1150, 2020 (SCI-Expanded)
- XII. **CHANGES IN BONE MINERAL DENSITY AFTER TOTAL KNEE ARTHROPLASTY**
Dincel Y. M., Sari A., Tekin C., Gunaydin B., Cetin M. U., Arslan Y. Z.
ACTA ORTOPEDICA BRASILEIRA, vol.28, no.5, pp.247-250, 2020 (SCI-Expanded)
- XIII. **Direct Validation of Model-Predicted Muscle Forces in the Cat Hindlimb During Locomotion**
KARABULUT D., DOĞRU S. C., Lin Y., Pandy M. G., Herzog W., Arslan Y. Z.
JOURNAL OF BIOMECHANICAL ENGINEERING-TRANSACTIONS OF THE ASME, vol.142, no.5, 2020 (SCI-Expanded)
- XIV. **Experimental investigation of biodynamic human body models subjected to whole-body vibration during a vehicle ride.**
Taskin Y., Hacıoglu Y., Ortes F., Karabulut D., Arslan Y. Z.
International journal of occupational safety and ergonomics : JOSE, vol.25, pp.530-544, 2019 (SSCI)
- XV. **Force irradiation effect of kinesiotaping on contralateral muscle activation**
Kulli H. D., KARABULUT D., SAKA T., AKAN A., ARSLAN Y. Z.
HUMAN MOVEMENT SCIENCE, vol.66, pp.310-317, 2019 (SCI-Expanded)
- XVI. **Biomechanical, histological, and radiological effects of different phosphodiesterase inhibitors on femoral fracture healing in rats**
Dincel Y. M., Alagoz E., Arikan Y., Caglar A. K., Dogru S. C., Ortes F., Arslan Y. Z.
JOURNAL OF ORTHOPAEDIC SURGERY, vol.26, no.2, 2018 (SCI-Expanded)
- XVII. **EFFECTS OF HIGH-DOSE VITAMIN C AND HYALURONIC ACID ON TENDON HEALING**
Dincel Y. M., Adanir O., Arikan Y., Caglar A. K., Dogru S. C., Arslan Y. Z.
ACTA ORTOPEDICA BRASILEIRA, vol.26, no.2, pp.82-85, 2018 (SCI-Expanded)
- XVIII. **A REVIEW OF FINITE ELEMENT APPLICATIONS IN ORAL AND MAXILLOFACIAL BIOMECHANICS**
Dogru S. C., Cansiz E., Arslan Y. Z.
JOURNAL OF MECHANICS IN MEDICINE AND BIOLOGY, vol.18, no.2, 2018 (SCI-Expanded)
- XIX. **Effects of low molecular weight heparin and rivaroxaban on rat Achilles tendon healing**
Eren Y., Adanir O., Dincel Y. M., Genc E., Arslan Y. Z., Caglar A.
EKLEM HASTALIKLARI VE CERRAHISI-JOINT DISEASES AND RELATED SURGERY, vol.29, no.1, pp.13-19, 2018 (SCI-Expanded)
- XX. **Object-Oriented Programming in Computer Science**
Yilmaz R., Sezgin A., Kurnaz S., Arslan Y. Z.
ENCYCLOPEDIA OF INFORMATION SCIENCE AND TECHNOLOGY, 4TH EDITION, pp.7470-7480, 2018 (SCI-Expanded)
- XXI. **General Perspectives on Electromyography Signal Features and Classifiers Used for Control of Human Arm Prosthetics**
Ortes F., Karabulut D., Arslan Y. Z.
ENCYCLOPEDIA OF INFORMATION SCIENCE AND TECHNOLOGY, 4TH EDITION, pp.492-504, 2018 (SCI-Expanded)
- XXII. **Design, Manufacture, and Selection of Ankle-Foot-Orthoses**
Surmen H. K., Akalan N. E., Arslan Y. Z.
ENCYCLOPEDIA OF INFORMATION SCIENCE AND TECHNOLOGY, 4TH EDITION, pp.298-313, 2018 (SCI-Expanded)
- XXIII. **A Novel Dorsal Trimline Approach for Passive-Dynamic Ankle-Foot Orthoses**
Surmen H. K., AKALAN N. E., Fetvacı M. C., Arslan Y. Z.
STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, vol.64, no.3, pp.185-194, 2018 (SCI-Expanded)

- XXIV. **THE IMPORTANCE OF FUNDUS AUTOFLUORESCENCE (FAF) IMAGING TO ESTABLISH PATIENT ELIGIBILITY FOR THE ARGUS (R) II RETINAL PROSTHESIS SYSTEM**
Koyluoglu N., Sahin O., Arslan Y. Z., Arslantas R., Pallikaris I.
EUROPEAN JOURNAL OF OPHTHALMOLOGY, vol.27, no.2, 2017 (SCI-Expanded)
- XXV. **Computer-Aided Design and Manufacturing of a Novel Maxillofacial Surgery Instrument: Application in the Sagittal Split Osteotomy**
Cansiz E., Turan F., Arslan Y. Z.
JOURNAL OF MEDICAL DEVICES-TRANSACTIONS OF THE ASME, vol.10, no.4, 2016 (SCI-Expanded)
- XXVI. **Improving the ride comfort of vehicle passenger using fuzzy sliding mode controller**
Arslan Y. Z., Sezgin A., Yagiz N.
JOURNAL OF VIBRATION AND CONTROL, vol.21, no.9, pp.1667-1679, 2015 (SCI-Expanded)
- XXVII. **EXPERIMENTAL ASSESSMENT OF LUMPED-PARAMETER HUMAN BODY MODELS EXPOSED TO WHOLE BODY VIBRATION**
Arslan Y. Z.
JOURNAL OF MECHANICS IN MEDICINE AND BIOLOGY, vol.15, no.3, 2015 (SCI-Expanded)
- XXVIII. **COMPARATIVE EVALUATION OF THE MECHANICAL PROPERTIES OF RESORBABLE AND TITANIUM MINIPLATES USED FOR FIXATION OF MANDIBULAR CONDYLE FRACTURES**
Cansiz E., Dogru S. C., Arslan Y. Z.
JOURNAL OF MECHANICS IN MEDICINE AND BIOLOGY, vol.15, no.2, 2015 (SCI-Expanded)
- XXIX. **Control of a Biomimetic Robot Hand Finger: Classical, Robust, and Intelligent Approaches**
Arslan Y. Z., Taskin Y., Hacıoglu Y., Yagiz N.
HANDBOOK OF RESEARCH ON ADVANCEMENTS IN ROBOTICS AND MECHATRONICS, pp.475-499, 2015 (SCI-Expanded)
- XXX. **Computer-assisted Design of Patient-specific Sagittal Split Osteotomy Guide and Soft Tissue Retractor**
Cansiz E., Arslan Y. Z., Turan F., Atalay B.
JOURNAL OF MEDICAL AND BIOLOGICAL ENGINEERING, vol.34, no.4, pp.363-367, 2014 (SCI-Expanded)
- XXXI. **PREDICTION OF MUSCLE FORCES USING STATIC OPTIMIZATION FOR DIFFERENT CONTRACTILE CONDITIONS**
Arslan Y. Z., Jinha A., Kaya M., Herzog W.
JOURNAL OF MECHANICS IN MEDICINE AND BIOLOGY, vol.13, no.3, 2013 (SCI-Expanded)
- XXXII. **Analysis of the vertical vibration effects on ride comfort of vehicle driver**
Sezgin A., Arslan Y. Z.
JOURNAL OF VIBROENGINEERING, vol.14, no.2, pp.559-571, 2012 (SCI-Expanded)
- XXXIII. **Comparison of the Data Classification Approaches to Diagnose Spinal Cord Injury**
Arslan Y. Z., Demirel R. M., Palamar D., Ugur M., Karamehmetoglu S. S.
COMPUTATIONAL AND MATHEMATICAL METHODS IN MEDICINE, 2012 (SCI-Expanded)
- XXXIV. **MIMO fuzzy sliding mode controlled dual arm robot in load transportation**
Hacıoglu Y., Arslan Y. Z., Yagiz N.
JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, vol.348, no.8, pp.1886-1902, 2011 (SCI-Expanded)
- XXXV. **Load transportation by dual arm robot using sliding mode control**
Yagiz N., Hacıoglu Y., Arslan Y. Z.
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.24, no.5, pp.1177-1184, 2010 (SCI-Expanded)
- XXXVI. **Prediction of externally applied forces to human hands using frequency content of surface EMG signals**
Arslan Y. Z., Adli M. A., Akan A., Baslo M. B.
COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE, vol.98, no.1, pp.36-44, 2010 (SCI-Expanded)
- XXXVII. **A quantitative skin impedance test to diagnose spinal cord injury**
Karamehmetoglu S. S., Ugur M., Arslan Y. Z., Palamar D.
EUROPEAN SPINE JOURNAL, vol.18, no.7, pp.972-977, 2009 (SCI-Expanded)

- XXXVIII. **Fuzzy sliding mode control of a finger of a humanoid robot hand**
Arslan Y. Z., Hacıoglu Y., Yagiz N.
EXPERT SYSTEMS, vol.26, no.3, pp.291-303, 2009 (SCI-Expanded)
- XXXIX. **PI+PD type fuzzy logic controlled dual-arm robot in load transfer**
Hacıoglu Y., Arslan Y. Z., Yagiz N.
STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, vol.54, no.5, pp.347-355, 2008 (SCI-Expanded)
- XL. **Prosthetic hand finger control using fuzzy sliding modes**
Arslan Y. Z., Hacıoglu Y., Yagiz N.
JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS, vol.52, no.1, pp.121-138, 2008 (SCI-Expanded)
- XLI. **Sliding mode control of a finger for a prosthetic hand**
Yagiz N., Arslan Y. Z., Hacıoglu Y.
JOURNAL OF VIBRATION AND CONTROL, vol.13, no.6, pp.733-749, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **Design and Production of Subject Specific Insole using Reverse Engineering and 3D Printing Technology**
SÜRMEN H. K., ÖRTEŞ F., ARSLAN Y. Z.
International Journal of Engineering and Science Invention, vol.5, no.12, pp.11-15, 2016 (Peer-Reviewed Journal)
- II. **Sagital Split Osteotomi Rehberi Ve Yumuşak Doku Retraktörünün Tasarımı Ve Üretimi**
ARSLAN Y. Z., TURAN F., CANSIZ E.
Süleyman Demirel Üniversitesi Mühendislik Bilimleri ve Tasarım Dergisi, vol.2, no.3, pp.135-140, 2014 (Peer-Reviewed Journal)
- III. **Interpretation of Muscle Fatigue Using Temporal and Spectral Moments of EMG Signals**
ARSLAN Y. Z., GÜNDOĞDU U., SAYIN A., AKAN A., KOCASOY ORHAN E., BASLO M. B.
WSEAS Transactions on Signal Processing, no.2, pp.656-661, 2006 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Design, manufacture and selection of ankle-foot-orthoses**
SURMEN H. K., AKALAN N. E., ARSLAN Y. Z.
in: Encyclopedia of Information Science and Technology, Fourth Edition (10 Volumes), Mehdi Khosrow-Pour , Editor, Igi Global Publications, Hershey, pp.298-313, 2018
- II. **General Perspectives on Electromyography Signal Features and Classifiers Used for Control of Human Arm Prosthetics**
ÖRTEŞ F., KARABULUT D., ARSLAN Y. Z.
in: Encyclopedia of Information Science and Technology, Mehdi Khosrow-Pour, Editor, Igi Global Publications, Hershey, pp.492-504, 2018
- III. **General Perspectives on Electromyography Signal Features and Classifiers Used for Control of Human Arm Prosthetics**
ÖRTEŞ F., Karabulut D., ARSLAN Y. Z.
in: Encyclopedia of Information Science and Technology, Fourth Edition (10 Volumes), Mehdi Khosrow-Pour , Editor, Igi Global Publications, Hershey, pp.1-10, 2017
- IV. **Biyomekanik Uygulamalar İçin Temel Mekanik**
ARSLAN Y. Z., ÖRTEŞ F.
in: Temel Kinezyo-Mekanik, Akalan N.E., Temelli Y., Editor, İstanbul Tıp Kitabevleri, İstanbul, pp.1-81, 2016
- V. **Control of a Biomimetic Robot Hand Finger: Classical, Robust and Intelligent Approaches**
ARSLAN Y. Z., HACIOĞLU Y., TAŞKIN Y., YAĞIZ N.
in: Handbook of Research on Advancements in Robotics and Mechatronics, Habib M. K., Editor, Igi Global Publisher,

Hershey, Pa, pp.475-499, 2015

- VI. **Control of a Biomimetic Robot Hand Finger: Classical, Robust and Intelligent Approaches**
ARSLAN Y. Z., HACIOĞLU Y., TAŞKIN Y., YAĞIZ N.
in: Handbook of Research on Advancements in Robotics and Mechatronics, Habib M. K., Editor, Igi Global Publisher, Hershey, Pa, pp.475-499, 2015
- VII. **Control of a Biomimetic Robot Hand Finger: Classical, Robust and Intelligent Approaches**
ARSLAN Y. Z., Hacıoglu Y., TAŞKIN Y., YAĞIZ N.
in: Handbook of Research on Advancements in Robotics and Mechatronics, Habib M. K., Editor, Igi Global Publisher, Hershey, Pa, pp.475-499, 2015
- VIII. **Control of a Biomimetic Robot Hand Finger: Classical, Robust and Intelligent Approaches**
ARSLAN Y. Z., Hacıoglu Y., TAŞKIN Y., YAĞIZ N.
in: Handbook of Research on Advancements in Robotics and Mechatronics, Habib M. K., Editor, Igi Global Publisher, Hershey, Pa, pp.475-499, 2015
- IX. **Control of a Biomimetic Robot Hand Finger: Classical, Robust and Intelligent Approaches**
ARSLAN Y. Z., HACIOĞLU Y., TAŞKIN Y., YAĞIZ N.
in: Handbook of Research on Advancements in Robotics and Mechatronics (2 Volumes), Habib M., Editor, Igi Global Publications, Hershey, pp.475-499, 2015

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. **Argus II retinal implant application in a patient with history of epilepsy**
Koşluoglu Unal N., Akkan F., Altindag E., Arslantas R., ARSLAN Y. Z.
Artificial Vision 2017, Aachen, Germany, 1 December - 02 November 2017, pp.1
- III. **İstemli Hareketler Öncesinde Postural Kontrol Mekanizmasının İncelenmesi**
Çelik H., Arpınar Avsar P., ARSLAN Y. Z.
1. Yürüyüş ve Denge Kongresi, Ankara, Turkey, 21 - 23 September 2017, pp.1
- IV. **Dinamik Alt Ekstremit Hareketleri Sırasında Çoklu Kas Sinerjilerinin İncelenmesi**
Arpınar Avsar P., ARSLAN Y. Z., Çelik H.
28-29. Ulusal Biyofizik Kongresi, İstanbul, Turkey, 6 - 09 September 2017, pp.1
- V. **A musculoskeletal spine model for predicting spinal muscle forces of a human body exposed to whole body vibration**
DOĞRU S. C., Qui Y., Yang M., ARSLAN Y. Z.
6th International Conference on Whole Body Vibration Injuries, Gothenburg, Sweden, 19 - 21 June 2017, pp.1-2
- VI. **Computer aided design of custom-made miniplates for virtual planning in orthognathic surgery**
Kara M. B., ÖRTEŞ F., CANSIZ E., ARSLAN Y. Z.
9th International Symposium on Mechanics of Materials and Structures, Augustow, Poland, 4 - 08 June 2017, pp.92-94
- VII. **Rambling and trembling in the analysis of postural adjustments prior to the self-selected and reaction time tasks**
Çelik H., ARSLAN Y. Z., Arpınar Avsar P.
27th Annual Meeting of the Society for the Neural Control of Movement, Dublin, Ireland, 2 - 05 May 2017, pp.1
- VIII. **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
- IX. **Evaluation of the gait characteristics of the patients subjected to the Atrophic jaw augmentation,**
Karabulut D., DOĞRU S. C., CANSIZ E., ARSLAN Y. Z., AKALAN N. E., TEMELLİ Y.

8. National Biomechanics Congress with International Participation, Ankara, Turkey, 19 - 23 October 2016, pp.1
- X. **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
- XI. **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. National Biomechanics Congress with International Participation, Ankara, Turkey, 19 - 23 October 2016, pp.1
- XII. **Açık ve Kapalı Becerilerde Harekete Hazırlık Safhasında Vücut Salınımı Değişimlerinin İncelenmesi**
Arpınar Avsar P., Çelik H., ARSLAN Y. Z.
8. Ulusal Biyomekanik Kongresi, Ankara, Turkey, 19 - 23 October 2016, pp.1
- XIII. **Development of a computational musculoskeletal model of the cat hind limb**
KARABULUT D., DOĞRU S. C., ARSLAN Y. Z., LIN Y., PANDY M., HERZOG W.
International Conference of the Polish Society of Biomechanics-BIOMECHANICS 2016, Biala Podlaska, Poland, 5 - 07 September 2016, pp.1-2
- XIV. **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
- XV. **Evaluation Of Morbidity Following Anterior Iliac Crest Bone Grafting For The Reconstruction Of Deficient Alveolar Ridges Via General And Combined Spinal Epidural Anesthesia**
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