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International Researcher IDs

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Biography

I received the B.Sc. degree in Industrial Engineering from Yildiz Technical University, Istanbul, Turkey, in 1989, the M.Sc degree in Sports Science and Technology from Hacettepe University, Ankara, Turkey, in 1994, and the Ph.D. degree in Biomechanics from the Manchester Metropolitan University, Manchester, UK, in 1998.

I am currently working as a member of the Faculty and Director of Biomechanics Laboratory at Hacettepe University. My biomechanics research interests include Sports Biomechanics, Mechanical Modelling of Soft Tissue, Human Motion Analysis and Simulation, Image Processing and Three-Dimensional reconstruction using imaging techniques. I have been developing software in C/C++/C# and MATLAB/Python more than 30 years.

Education Information

Doctorate, The Manchester Metropolitan University, Biyomekanik, United Kingdom 1994 - 1998

Postgraduate, Hacettepe University, Sağlık Bilimleri Enstitüsü, Spor Bilimleri Ve Teknolojisi, Turkey 1993 - 1994

Undergraduate, Yildiz Technical University, Makina Fakültesi, Endüstri Mühendisliği, Turkey 1983 - 1988

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Development and validation of a biomechanical model of the human upper arm, The Manchester Metropolitan University, 1998

Postgraduate, Fule uzunlukları ve ağırlık merkezi hızının belirlenmesinde kullanılan değişik ölçüm yöntemlerinin karşılaştırılması, Hacettepe Üniversitesi, Sağlık Bilimleri Enstitüsü, Spor Bilimleri Ve Teknolojisi (YI) (Tezli), 1994

Research Areas

Computer Graphics, Computer Graphics, Biomedical Engineering, Biomechanics, Motion Analysis, Solid Mechanics

Academic Titles / Tasks

Assistant Professor, Hacettepe University, Spor Bilimleri Fakültesi, Egzersiz ve Spor Bilimleri Bölümü, 2018 - Continues

Assistant Professor, Hacettepe University, Spor Bilimleri Fakültesi, Egzersiz ve Spor Bilimleri Bölümü, 2000 - 2018

Visiting Lecturer, University of Edinburgh, Moray House School of Education and Sport, 2007 - 2007

Research Assistant, Hacettepe University, Spor Bilimleri Fakültesi, Egzersiz ve Spor Bilimleri Bölümü, 1991 - 1999

Researcher, The Manchester Metropolitan University, Crewe+Alsager Faculty, Biomechanics Research Group, 1994 - 1998

Academic and Administrative Experience

Head of Department, Hacettepe University, Spor Bilimleri Fakültesi, Egzersiz Ve Spor Bilimleri Bölümü, 2012 - 2018

Hacettepe Üniversitesi, Spor Bilimleri Fakültesi, 2012 - 2016

Courses

Maç ve Yarışma Analizi Şube2 Hareket Analizi, Undergraduate, 2024 - 2025

PYTHON PROGRAMLAMA, Postgraduate, 2016 - 2017

UYGULAMALI HAREKET ANALİZİ, Postgraduate, 2016 - 2017

BİYOMEKANİK, Postgraduate, 2016 - 2017

HAREKET ANALİZİ SİSTEMLERİ, Postgraduate, 2016 - 2017

SPOR BİLİMLERİNDE BİLİMSEL PROGRAMLAMAYA GİRİŞ, Postgraduate, 2016 - 2017

Supervised Theses

ARITAN S., REAL-TIME PHYSICS-BASED MOTION CONTROL WITH AN EFFICIENT INVERSE DYNAMICS METHOD, Postgraduate, E.KAVAFOĞLU(Student), 2018

ARITAN S., Kaya tırmanışında tutamak yapılarına göre tutuş zorluk derecelerinin modellenmesi, Doctorate, A.MİTHAT(Student), 2014

ARITAN S., Barfikte ters ve düz devir hareketlerinin biyomekanik analizi, Postgraduate, N.ŞÜKRÜ(Student), 2014

ARITAN S., Yüzme sporunda 12-14 yaş grubunda farklı çıkış tekniklerinin biyomekanik analizi, Postgraduate, C.BAYKAL(Student), 2013

ARITAN S., Statik durumlarda kaya tırmanışına sonlu elemanlar yaklaşımı, Postgraduate, A.MİTHAT(Student), 2007

ARITAN S., İnsan hareketinin modellenmesi ve benzeşiminde temel bileşenler analizi yönteminin kullanılması, Doctorate, M.ÇİLLİ(Student), 2007

ARITAN S., Uzun atlamada yerden çıkış evresinin biyomekanik analizi ve modellenmesi, Doctorate, A.ALPTEKİN(Student), 2007

ARITAN S., Koparma tekniğinin biyomekanik analizi ve modellenmesi, Doctorate, E.HARBİLİ(Student), 2006

Jury Memberships

Doctorate, Doctorate, Hacettepe Üniversitesi, January, 2025

Doctorate, Doctorate, Orta Doğu Teknik Üniversitesi, August, 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation the effect of rigid taping on knee and hip joint kinematics in chronic stroke patients with knee hyperextension gait.**
Korkusuz S., Fil-Balkan A., Korkusuz B. S., Özgören N., Arıtan S., Ceren A. N., Topçuoğlu M. A.
Gait & posture, vol.117, pp.172-178, 2024 (SCI-Expanded)
- II. **EFFECT OF KNEE HYPEREXTENSION ON FEMORAL CARTILAGE THICKNESS IN STROKE PATIENTS.**
Korkusuz S., Kibar S., Özgören N. Ş., Arıtan S., Seçkinoğulları B., Fil Balkan A.
American journal of physical medicine & rehabilitation, vol.103, pp.371-376, 2024 (SCI-Expanded)
- III. **Comparison of collision dynamics of soccer balls with energy dissipation method**
Tunçel A., Özgören N. Ş., ARITAN S.
Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2024 (SCI-Expanded)
- IV. **Comparison of the Effectiveness of Kinesiology Taping and Rigid Taping on Ankle Kinematics During Drop Landing in Individuals with Lateral Ankle Injury**
Korkusuz S., KILIÇ R. T., ARITAN S., Ozgoren N. Ş., Sozay S., Kibar S., Yosmaoglu H. B.
Journal of the American Podiatric Medical Association, vol.112, no.6, 2022 (SCI-Expanded)
- V. **Peak counting in surface electromyography signals for quantification of muscle fatigue during dynamic contractions**
Ozgoren N. Ş., ARITAN S.
MEDICAL ENGINEERING & PHYSICS, vol.107, 2022 (SCI-Expanded)
- VI. **X-Ray microtomography imaging of red lentil puffed snacks: Processing conditions, microstructure and texture**
Guillermic R. -, Aksoy E. C., Arıtan S., Erkinbaev C., Paliwal J., Koksel F.
FOOD RESEARCH INTERNATIONAL, vol.140, 2021 (SCI-Expanded)
- VII. **The effects of sodium reduction on the gas phase of bread doughs using synchrotron X-ray microtomography**
Sun X., Scanlon M. G., Guillermic R., Belev G. S., Webb M. A., ARITAN S., Nickerson M. T., Koksel F.
Food Research International, vol.130, 2020 (SCI-Expanded)
- VIII. **The use of synchrotron X-rays and ultrasonics for investigating the bubble size distribution and its evolution in bread dough**
KÖKSEL F., STRYBULEVYCH A., ARITAN S., PAGE J. H., SCANLON M. G.
Journal of Cereal Science, vol.78, pp.10-18, 2017 (SCI-Expanded)
- IX. **The bubble size distribution and its evolution in non-yeasted wheat flour doughs investigated by synchrotron X-ray microtomography**
Koksel F., ARITAN S., Strybulevych A., Page J. H., Scanlon M. G.
FOOD RESEARCH INTERNATIONAL, vol.80, pp.12-18, 2016 (SCI-Expanded)
- X. **Kinematic and EMG activities during front and back squat variations in maximum loads**
YAVUZ H. U., Erdag D., AMCA A. M., ARITAN S.
JOURNAL OF SPORTS SCIENCES, vol.33, no.10, pp.1058-1066, 2015 (SCI-Expanded)
- XI. **Fusionless Instrumentation in Growing Spine and Adjacent Segment Problems An Experimental Study in Immature Pigs**
Yilgor C., DEMİRKIRAN H. G., ARITAN S., KÖSEMEHMETOĞLU K., Daglioglu K., Isikhan S., YAZICI M.
SPINE, vol.38, no.25, pp.2156-2164, 2013 (SCI-Expanded)
- XII. **The effect of chalk on the finger-hold friction coefficient in rock climbing**
AMCA A. M., Vigouroux L., ARITAN S., Berton E.
SPORTS BIOMECHANICS, vol.11, no.4, pp.473-479, 2012 (SCI-Expanded)
- XIII. **Effect of hold depth and grip technique on maximal finger forces in rock climbing**
AMCA A. M., Vigouroux L., ARITAN S., Berton E.
JOURNAL OF SPORTS SCIENCES, vol.30, no.7, pp.669-677, 2012 (SCI-Expanded)
- XIV. **Efficiency of non-linear lens distortion models in biomechanical analysis of human movement**

- Aritan S.
MEASUREMENT, vol.43, no.6, pp.739-746, 2010 (SCI-Expanded)
- XV. **A mechanical model representation of the in vivo creep behaviour of muscular bulk tissue**
ARITAN S., Oyadiji S. O., Bartlett R. M.
JOURNAL OF BIOMECHANICS, vol.41, no.12, pp.2760-2765, 2008 (SCI-Expanded)
- XVI. **Effects of vibration on maximal isometric muscle contraction at different joint angles**
Kin-Isler A., Acikada C., Aritan S.
ISOKINETICS AND EXERCISE SCIENCE, vol.14, no.3, pp.213-220, 2006 (SCI-Expanded)
- XVII. **Program for generation of three-dimensional finite element mesh from magnetic resonance imaging scans of human limbs**
Aritan S., Dabnichki P., Bartlett R.
MEDICAL ENGINEERING & PHYSICS, vol.19, no.8, pp.681-689, 1997 (SCI-Expanded)
- XVIII. **Accuracy evaluation of an on-line kinematic system via dynamic tests**
Dabnichki P., Lauder M., ARITAN S., Tsirakos D.
JOURNAL OF MEDICAL ENGINEERING & TECHNOLOGY, vol.21, no.2, pp.53-66, 1997 (SCI-Expanded)

Articles Published in Other Journals

- I. **A NOVEL EXPERIMENTAL APPROACH FOR IDENTIFYING BIOMECHANICAL PARAMETERS ASSOCIATED WITH PATELLOFEMORAL PAIN: A CASE REPORT**
Deniz D., Özgören N. Ş., Aritan S., Bayrakçı Tunay V.
Journal of Hacettepe University Physical Therapy and Rehabilitation Faculty, no.3, pp.103-109, 2024 (Peer-Reviewed Journal)
- II. **Effects of beta-blockers on archery performance, body sway and aiming behaviour**
Ergen E., HAZIR T., Celebi M., KİN İŞLER A., ARITAN S., YAYLIOĞLU V. D., Guner R., Acikada C., Cinemre A.
BMJ OPEN SPORT & EXERCISE MEDICINE, vol.7, no.2, 2021 (ESCI)
- III. **Futbolda Penaltı Vuruşunun Kinematığı: Kaleci ve Hedef Faktörünün Etkisi**
Tuncel A., HARBİLİ E., ARITAN S.
Hacettepe Spor Bilimleri Dergisi, vol.30, no.1, pp.25-38, 2019 (Peer-Reviewed Journal)
- IV. **Investigation of joint reaction forces and moments during the countermovement and squat jump**
ALPTEKİN A., ARITAN S., HARBİLİ E.
Pamukkale Journal of Sport Sciences, vol.8, pp.58-71, 2017 (Peer-Reviewed Journal)
- V. **Simulation of Giant Circles on High Bar**
Özgören N. Ş., Aritan S.
Mühendislik Bilimleri ve Tasarım Dergisi, vol.2, no.3, pp.249-251, 2014 (Peer-Reviewed Journal)
- VI. **Semitendinosus snapping analysis of movement electromyographic activities muscle strength and endurance motor control and joint position sense**
GÜNEY H., KAYA D., YILGÖR İ. Ç., ÇİLLİ M., ARITAN S., YÜKSEL İ., DORAL M. N.
Muscle Ligaments and Tendons Journal, vol.2, no.4, pp.302-304, 2013 (Scopus)
- VII. **Semitendinosus snapping: Analysis of movement, electromyographic activities, muscle strength and endurance, motor control and joint position sense**
GUNEY H., KAYA D., Yilgor C., CILLI M., Aritan S., Yuksel I., Doral M. N.
Muscles, Ligaments and Tendons Journal, vol.3, no.3, pp.166-172, 2013 (Scopus)
- VIII. **UZUN ATLAMADA ÇIKIŞ EVRESİNİN KİNEMATİĞİ: 2 ve 3 BOYUTLU ANALİZİN KARŞILAŞTIRILMASI**
ALPTEKİN A., ARITAN S.
Pamukkale Spor Bilimleri Dergisi, vol.4, pp.152-164, 2013 (Peer-Reviewed Journal)
- IX. **HUBAG Üç Boyutlu Hareket Analizi Yazılımı**
ARITAN S., ÇİLLİ M., AMCA A. M.
Spor Bilimleri Dergisi, vol.21, no.1, pp.30-36, 2010 (Peer-Reviewed Journal)
- X. **Koparma Kaldırışının Biyomekanik Analizi için Mekanik Model Geliştirilmesi**

AMCA A. M., HARBİLİ E., ARITAN S.

Spor Bilimleri Dergisi, vol.21, no.1, pp.21-29, 2010 (Peer-Reviewed Journal)

- XI. **Temel Bileşenler Analizi Yardımı ile Elde Edilen Daha Az Sayıda Değişken Kullanılarak Farklı Hızlarda İnsan Koşusunun Fourier Tabanlı Modelinin Oluşturulması**

ÇİLLİ M., ARITAN S.

Spor Bilimleri Dergisi, vol.21, pp.1-12, 2010 (Peer-Reviewed Journal)

- XII. **HALTERDE ARTAN BAR AĞIRLIĞININ BARKİNEMATİĞİ VE GÜÇ ÇIKTISI ÜZERİNE ETKİLERİ**

HARBİLİ E., ARITAN S.

Spor Bilimleri Dergisi, vol.18, no.3, pp.126-136, 2007 (Peer-Reviewed Journal)

- XIII. **KOPARMA TEKNİĞİNİN BİYOMEKANİĞİ**

HARBİLİ E., ARITAN S.

Spor Bilimleri Dergisi, vol.17, pp.124-142, 2006 (Peer-Reviewed Journal)

- XIV. **Kaya Tırmanışına Sonlu Elemanlar Yaklaşımı**

AMCA A. M., ARITAN S.

Spor Bilimleri Dergisi: Hacettepe Üniversitesi, vol.17, pp.173-183, 2006 (Peer-Reviewed Journal)

- XV. **ELİT HALTERCİLERDE KOPARMA TEKNİĞİNİN KARŞILAŞTIRMALI BİYOMEKANİK ANALİZİ**

HARBİLİ E., ARITAN S.

Spor Bilimleri Dergisi, vol.16, pp.124-134, 2005 (Peer-Reviewed Journal)

- XVI. **HAREKET ANAİZİ SİSTEMLERİNDE SAYISALLAŞTIRMADA ORTAYA ÇIKAN HATALARIN DAĞILIMI**

ÇİLLİ M., ARITAN S.

Spor Bilimleri Dergisi, vol.15, pp.91-99, 2004 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Hareket Analizi Sistemleri**

ARITAN S.

in: YÜRÜYÜŞ Hareket Analizi ve Yöntemleri Değerlendirme Normal ve Patolojik Yürüyüş, Fatih Erbahçeci Kezban Bayramlar, Editor, Hipokrat Kitapevi, Ankara, pp.75-85, 2018

- II. **Biomechanical Measurement Methods to Analyze the Mechanisms of Sport Injuries**

ARITAN S.

in: Sports Injuries Prevention Diagnosis Treatment and Rehabilitation, M.N. Doral, J. Karlsson, Editor, Springer-Verlag Berlin, pp.3085-3096, 2015

- III. **Kas Biyomekaniği**

DEMİREL A. H., ARITAN S.

in: Kas İskelet Sistemi Biyomekaniği, İbrahim Deniz AKÇALI, Mahir GÜLŞEN, Kerem ÜN, Editor, Ortopedia Hastanesi, Cukurova Üniversitesi, Adana, 2009

- IV. **Bulk Modulus**

Aritan S.

in: Wiley Encyclopedia of Biomedical Engineering, Metin Akay, Editor, John Wiley & Sons, West Sussex, UK, New-Jersey, pp.668-675, 2006

Refereed Congress / Symposium Publications in Proceedings

- I. **Futbol Toplarının Çarpışma Dinamikleri**

Tunçel A., Özgören N. Ş., Arıtan S.

22. Uluslararası Spor Bilimleri Kongresi, Ankara, Turkey, 21 - 24 November 2024

- II. **Deadlift Hareketinin Biyomekanik Modellenmesi**

KABAY C., ARITAN S.

22. Uluslararası Spor Bilimleri Kongresi, Ankara, Turkey, 21 - 24 November 2024

- III. **Bir Eniyileştirme Problemi Olarak Amut Hareketi**
YAYLIOĞLU V. D., ARITAN S.
22. Uluslararası Spor Bilimleri Kongresi, Ankara, Turkey, 21 - 24 November 2024
- IV. **İnsan Hareketinin Biyomekanik Benzeşim Modeli İçin Yer Tepki Kuvvetlerinin Kestirimi**
Özgören N. Ş., Aritan S.
22. Uluslararası Spor Bilimleri Kongresi, Ankara, Turkey, 21 - 24 November 2024
- V. **Gait analysis in patients with chronic obstructive pulmonary disease**
YAMIKAN H., ÖZGÖREN N. Ş., ARITAN S., KARCIOĞLU O., DEMİREL A.
The ERS Congress 2024, Viyana, VİYANA, Austria, 05 September 2024, vol.64
- VI. **The effect of core stabilization training on trunk kinematics and serve performance during serve in tennis**
Başköy F., YOSMAOĞLU H. B., ARITAN S., AMCA A. M.
XXVII Congress of the International Society of Biomechanics, 31 July - 04 August 2019
- VII. **Biomechanics: The Machine Inside**
ARITAN S.
9 TH INTERNATIONAL BIOMECHANICS CONGRESS, 19 - 22 September 2018
- VIII. **Determining subject-specific feedback control parameters for knee joint during back squats with varying loads**
Özgören N. Ş., Aritan S.
9th International Biomechanics Congress, Eskişehir, Turkey, 19 - 21 September 2018
- IX. **Development of a real-time feedback control system for knee joint during back squat**
Özgören N. Ş., Yaylioğlu V. D., Aritan S.
36th Conference of the International Society of Biomechanics in Sports, Auckland, New Zealand, 10 - 14 September 2018, vol.36, no.131, pp.586-589
- X. **Estimating straight punch force in boxing: A simulation model of the punching bag**
Özgören N. Ş., Aritan S.
15th International Sport Sciences Congress, Antalya, Turkey, 15 - 18 November 2017, pp.210-211
- XI. **Comparison of three EMG-based muscle fatigue assessments in dynamic contractions**
Özgören N. Ş., Aritan S.
35th Conference of the International Society of Biomechanics in Sports, Cologne, Germany, 14 - 18 June 2017, vol.35, no.174, pp.524-527
- XII. **Effects of Patellar Tendon Strap on Electromyographic Activity of Quadriceps Muscles During Drop Landing**
UTKU B., AMCA A. M., ARITAN S.
35th International Conference on Biomechanics in Sport, 14 - 18 June 2017
- XIII. **SPHERE FITTING INTO VOLUMETRIC REPRESENTATIONS OF BASKETBALL THROWS**
YAYLIOĞLU V. D., ARITAN S.
35th Conference of the International Society of Biomechanics in Sports, Cologne, Germany, 14 - 18 June 2017
- XIV. **Volumetric Evaluation of Basketball Throws**
YAYLIOĞLU V. D., ARITAN S.
14th International Sport Sciences Congress, 1 - 04 November 2016
- XV. **Biomechanics The Future of Motion**
ARITAN S.
14th International Sport Sciences Congress, 1 - 04 November 2016
- XVI. **Futbolda Penaltı Vuruşunun Kinematığı Kaleci Faktörünün Etkisi**
TUNÇEL A., HARBİLİ E., ARITAN S.
14th International Sport Sciences Congress, 1 - 04 November 2016
- XVII. **Patellartendon bandı serbest düşme esnasında dizin eklem pozisyon hissini ve elektromyografik yanıtını bozmuyor**
Utku B., AMCA A. M., ARITAN S.
8. Ulusal Biyomekanik Kongresi, Ankara, Turkey, 19 - 23 October 2016

- XVIII. **Patellartendon bandı serbet düşme esnasında dizin eklem pozisyon hissini ve elektromyografik yanıtı bozmuyor**
UTKU B., AMCA A. M., ARITAN S.
Uluslararası Katılımlı 8. Ulusal Biyomekanik Kongresi, Turkey, 19 - 23 October 2016
- XIX. **50 tekrarlı bir izokinetik yorgunluk testinde elektromiyografi**
ÖZGÖREN N. Ş., ARITAN S.
14. Uluslararası Spor Bilimleri Kongresi, Antalya, Turkey, 1 - 04 October 2016
- XX. **PATELLAR TENDON STRAP DOES NOT AFFECT THEM AXIMAL JUMP HEIGHT**
UTKU B., AMCA A. M., ARITAN S.
34th World Congress of Sports Medicine, 29 September - 02 October 2016, vol.50, pp.21-22
- XXI. **A Feedback Controller Design for a Biomechanical Model of the Press Handstand in Gymnastics**
Özgören N. Ş., Arıtan S.
The 34th International Conference on Biomechanics in Sports, Tsukuba, Japan, 18 - 22 July 2016, pp.909-912
- XXII. **EFFECT OF HOLD SLOPER ANGLE AND HOLD DEPTH ON MAXIMAL FINGER FORCE CAPACITY OF ROCK CLIMBERS**
AMCA A. M., ARITAN S.
33rd International Conference on Biomechanics in Sports, Poitiers, France, 29 June - 03 July 2015
- XXIII. **Use Your Head! in Giant Circles on High Bar.**
Özgören N. Ş., Arıtan S.
Biomechanics of Human Motion Workshop, Güzelyurt, Cyprus (Kktc), 20 - 21 June 2015
- XXIV. **Barfikste Ters ve Düz Devir Hareketlerinin Biyomekanik Özellikleri**
ÖZGÖREN N. Ş., ARITAN S.
13. Uluslararası Spor Bilimleri Kongresi, Konya, Turkey, 7 - 09 November 2014
- XXV. **Biomechanical characteristics of forward and backward giant circles on high bar**
Özgören N. Ş., Arıtan S.
13th International Sport Sciences Congress, Konya, Turkey, 7 - 09 November 2014, pp.127-128
- XXVI. **EFFECT OF YO-YO TEST-INDUCED FATIGUE ON BIOMECHANICS OF INSTEP YO-YO TEST-INDUCED FATIGUE ON BIOMECHANICS OF INSTEPKICKING IN SOCCER**
HARBİLİ E., TUNÇEL A., ARITAN S.
13th International Sport Sciences Congress, Konya, Turkey, 7 - 09 November 2014
- XXVII. **Simulation of giant circles on high bar**
Özgören N. Ş., Arıtan S.
VII. Ulusal Biyomekanik Kongresi, Isparta, Turkey, 16 - 18 October 2014, vol.2, pp.249-252
- XXVIII. **Relationship Between Climbing Specific Grip Techniques Hold Depth and Maximal Finger Force Capacity of Rock Climbers**
AMCA A. M., ARITAN S., Vigouroux L.
II. International Rock Climbing Research Congress, Pontresina, Switzerland, 15 - 19 September 2014
- XXIX. **Does a Growing Rod Cause Degeneration and Secondary Deformity in the Adjacent Segment**
YILGÖR İ. Ç., ARITAN S., DEMİRKIRAN H. G., DAĞLIOĞLU Y. K., KÖSEMEHMETOĞLU K., YAZICI M.
EPOS 31st Annual Meeting, 18 - 21 April 2012, vol.6, pp.1-26
- XXX. **Kaya Tırmanıcılarında Tekrarlı Submaksimal Parmak Kuvveti Performansı ve Yorgunluk**
AMCA A. M., Vigouroux L., ARITAN S.
12. Uluslararası Spor Bilimleri Kongresi, Denizli, Turkey, 12 - 14 December 2012
- XXXI. **Biomechanical Modelling of Human Movement**
ARITAN S.
14th National Congress of Anatomy, Ankara, Turkey, 28 June - 01 July 2012
- XXXII. **Does growing rod cause degeneration and secondary deformity in the adjacent segment**
YILGÖR İ. Ç., ARITAN S., DEMİRKIRAN H. G., DAĞLIOĞLU Y. K., KÖSEMEHMETOĞLU K., YAZICI M.
SPINWEEK 2012, 28 May - 01 June 2012, vol.21, pp.316
- XXXIII. **Elit Haltercilerde Koparma Kaldırışlarının Kinematik Analizi Arttırılan Yükün Etkileri**
HARBİLİ E., AMCA A. M., ARITAN S.

Uluslararası Spor Bilimleri Kongresi, Antalya, Turkey, 10 - 12 November 2010

- XXXIV. **Bale sanatçısında Semitendinosus tendonu kaynaklı dizde atlama snapping knee sendromu Hareket elektromiyografik aktivite izokinetik güç propriyosepsiyon koordinasyon ve fonksiyonel dayanıklığın analizi Olgu sunumu**
GÜNEY H., YILGÖR İ. Ç., KAYA D., ÇİLLİ M., ARITAN S., ATAY Ö. A., YÜKSEL İ., DORAL M. N.
10. Türkiye Spor Yaralanmaları, Diz Cerrahisi ve Artroskopi Derneği kongresi, Turkey, 12 - 16 October 2010
- XXXV. **Biomechanical modelling in sports medicine**
ARITAN S.
6th European Sports Medicine Congress, 14 - 18 October 2009, vol.11, pp.1-178
- XXXVI. **2D Torque Driven Mechanical Modelling Of Snatch**
AMCA A. M., ARITAN S.
11th International Conference of Sport Kinetics, Halkidiki, Greece, 25 - 27 September 2009
- XXXVII. **In vivo mechanical properties of muscular bulk tissue: Mechanical model representation of stress-relaxation behavior**
ARITAN S., Oyadiji S. O., Bartlett R. M.
2008 ASME International Mechanical Engineering Congress and Exposition, IMECE 2008, Boston, MA, United States Of America, 31 October - 06 November 2008, vol.2, pp.723-724
- XXXVIII. **The in vivo Mechanical Properties of Muscular Bulk Tissue**
ARITAN S., Oyadiji S. O., Bartlett R. M.
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Supported Projects

- ARITAN S., Industrial Thesis Project, Futbolda Kaleci Formalarının (Alt-Üst) Fonksiyonelliklerinin Artırılması Amacıyla Yeniden Tasarlanması, 2016 - Continues
- Kulak Kayıkcı M. E., Gürçay H., Karaosmanoğlu A., Arıtan S., TUBITAK Project, Monitoring Vocal Tract and face movements for 3D modeling and animation for Turkish, 2018 - 2021
- ARITAN S., TUBITAK Project, WalkOVR Giyilebilir Hareket Tanıma Sistemi-Hareket Tanıma Algoritmaları ile 5-11 Noktalı Tüm Vücut Hareket Tanıma Sisteminin Geliştirilmesi, 2019 - 2019
- ARITAN S., Kobi, Hava Savunma Sisteminin Çıkış Kinematığının Hesaplanması, 2018 - 2018
- GÜRÇAY H., ARITAN S., Project Supported by Higher Education Institutions, Bilgisayar Animasyonu ve Oyun Teknolojileri Laboratuvarı Altyapısının Güncellenmesi, 2016 - 2018
- ARITAN S., ÖZGÖREN N. Ş., Project Supported by Higher Education Institutions, Boksta direkt vuruş kuvvetinin kestirilmesi Boks torbasının benzeşim modeli, 2017 - 2017
- ARITAN S., YAYLIOĞLU V. D., Project Supported by Higher Education Institutions, Basketbol atışlarının hacimsel

temsillerine küre yerleřtirmek, 2017 - 2017

ARITAN S., ÖZGÖREN N. Ő., Project Supported by Higher Education Institutions, Dinamik kasılmalarda üç farklı EMG tabanlı kas yorgunluęu deęerlendirme yönteminin karřılařtırılması, 2017 - 2017

ARITAN S., ÖZGÖREN N. Ő., YAYLIOęLU V. D., TOK D., Project Supported by Higher Education Institutions, Biyomekanikte Hareket Analizi alıřtayı, 2016 - 2017

ARITAN S., ÖZGÖREN N. Ő., Project Supported by Higher Education Institutions, 50 tekrarlı bir izokinetik yorgunluk testinde elektromiyografi, 2016 - 2016

ARITAN S., Project Supported by Higher Education Institutions, 34. Uluslararası Spor Biyomekanięi Kongresi, 2016 - 2016

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ARITAN S., Project Supported by Higher Education Institutions, Kaya tırmanıřı sporunda temel tutuř şekilleri ve tutamak yapılarının tutuř zorluk derecelerinin modellenmesi ve biyomekanik analizi, 2014 - 2015

Activities in Scientific Journals

Spor Bilimleri Dergisi, Scientific Committee Membership, 2000 - Continues

Memberships / Tasks in Scientific Organizations

Spor Bilimleri Derneęi, Member, 1992 - Continues, Turkey

SIAM, Member, 2002 - 2023, United States Of America

ACM-SIGGRAPH Computer Graphics, Member, 2017 - 2020, United States Of America

ASME, Member, 2008 - 2016, United States Of America

IEEE - Engineering in Medicine, Member, 2000 - 2016, United States Of America

Scientific Refereeing

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Scientific Research / Working Group Memberships

Biyomekanik Arařtırma Grubu, Hacettepe University, Turkey, <https://biomech.hacettepe.edu.tr>, 2000 - Continues

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Citation (WoS): 302
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Arıtan S., Amca A. M., illi M., HUBAG: Ü boyutlu hareket analizi yazılımı, Hacettepe Üniversitesi Teknoloji Geliřtirme Bölgesi Yönetici Şirketinin 2008 Yılı Proje Yarıřması, April 2008