

Asst. Prof. SERDAR ARITAN

Personal Information

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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 Üniversitesi, Sağlık Bilimleri Enstitüsü, Spor Bilimleri Ve Teknolojisi, Turkey 1993 - 1994

Undergraduate, Yıldız Teknik Üniversitesi, 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 (YL) (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
Research Assistant, Hacettepe University, Spor Bilimleri Fakültesi, Egzersiz Ve Spor Bilimleri Bölümü, 1991 - 1999

Academic and Administrative Experience

Hacettepe Üniversitesi, Spor Bilimleri Fakültesi, Egzersiz ve Spor Bilimleri Bölümü, 2012 - Continues
Hacettepe Üniversitesi, Spor Bilimleri Fakültesi, 2012 - 2016

Courses

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

Advising 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

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

- I. **X-Ray microtomography imaging of red lentil puffed snacks: Processing conditions, microstructure and texture**
Guillermic R. -, Aksoy E. C. , Aritan S., Erkinbaev C., Paliwal J., Koxsel F.
FOOD RESEARCH INTERNATIONAL, vol.140, 2021 (Journal Indexed in SCI)
- II. **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. , Koxsel F.
Food Research International, vol.130, 2020 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)

- V. **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 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **Efficiency of non-linear lens distortion models in biomechanical analysis of human movement**
Aritan S.
MEASUREMENT, vol.43, no.6, pp.739-746, 2010 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)
- XI. **Effects of vibration on maximal isometric muscle contraction at different joint angles**
Kin-İsler A., Acikada C., Aritan S.
ISOKINETICS AND EXERCISE SCIENCE, vol.14, no.3, pp.213-220, 2006 (Journal Indexed in SCI)
- XII. **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 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **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 (Journal Indexed in ESCI)
- II. **Futbolda Penaltı Vuruşunun Kinematiği: Kaleci ve Hedef Faktörünün Etkisi**
Tuncel A., HARBİLİ E., ARITAN S.
Hacettepe Spor Bilimleri Dergisi, vol.30, no.1, pp.25-38, 2019 (Other Refereed National Journals)
- III. **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 (Refereed Journals of Other Institutions)
- IV. **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 (National Refreed University Journal)
- V. **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 (Refereed Journals of Other Institutions)

- VI. **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 (Other Refereed National Journals)
- VII. **Koparma Kaldırışının Biyomekanik Analizi İçin Mekanik Model Geliştirilmesi**
AMCA A. M. , HARBİLİ E., ARITAN S.
Spor Bilimleri Dergisi: Hacettepe Üniversitesi, vol.21, pp.21-29, 2010 (Refereed Journals of Other Institutions)
- VIII. **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 (Other Refereed National Journals)
- IX. **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 (Other Refereed National Journals)
- X. **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 (Other Refereed National Journals)
- XI. **KOPARMA TEKNİĞİNİN BİYOMEKANİĞİ**
HARBİLİ E., ARITAN S.
Spor Bilimleri Dergisi, vol.17, pp.124-142, 2006 (Other Refereed National Journals)
- XII. **Kaya Tırmanışına Sonlu Elemanlar Yaklaşımı**
AMCA A. M. , ARITAN S.
Spor Bilimleri Dergisi: Hacettepe Üniversitesi, vol.17, pp.173-183, 2006 (Refereed Journals of Other Institutions)
- XIII. **ELİT HALTERCİLERDE KOPARMA TEKNİĞİNİN KARŞILAŞTIRMALI BİYOMEKANİK ANALİZİ**
HARBİLİ E., ARITAN S.
Spor Bilimleri Dergisi, vol.16, pp.124-134, 2005 (Other Refereed National Journals)
- XIV. **HAREKET ANALİZİ SİSTEMLERİNDE SAYISALLAŞTIRMADA ORTAYA ÇIKAN HATALARIN DAĞILIMI**
ÇİLLİ M., ARITAN S.
Spor Bilimleri Dergisi, vol.15, pp.91-99, 2004 (Other Refereed National Journals)

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**
Arıtan 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. **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
- II. **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
- III. **Biomechanics: The Machine Inside**
ARITAN S.
9 TH INTERNATIONAL BIOMECHANICS CONGRESS, 19 - 22 September 2018
- IV. **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, pp.586-589
- V. **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
- VI. **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
- VII. **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
- VIII. **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, pp.524-527
- IX. **Biomechanics The Future of Motion**
ARITAN S.
14th International Sport Sciences Congress, 1 - 04 November 2016
- X. **Volumetric Evaluation of Basketball Throws**
YAYLIOĞLU V. D. , ARITAN S.
14th International Sport Sciences Congress, 1 - 04 November 2016
- XI. **Futbolda Penaltı Vuruşunun Kinematığı Kaleci Faktörünün Etkisi**
TUNÇEL A., HARBİLİ E., ARITAN S.
14th International Sport Sciences Congress, 1 - 04 November 2016
- XII. **Electromyography in A 50 Repetition Isokinetic Fatigue Test**
Özgören N. Ş. , Aritan S.
14th International Sport Sciences Congress, Antalya, Turkey, 1 - 04 November 2016, pp.338
- XIII. **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
- XIV. **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

- XV. **Evaluating responses of a feedback control system for a multi link biomechanical model**
Özgören N. Ş. , Arıtan S.
Uluslararası Katılımlı 8.Ulusal Biyomekanik Kongresi, Ankara, Turkey, 19 - 23 October 2016, pp.31-33
- XVI. **50 tekrarlı bir izokinetik yorgunluk testinde elektromiyografi**
ÖZGÖREN N. Ş. , ARITAN S.
14. Uluslararası Spor Bilimleri Kongresi, Antalya, Turkey, 1 - 04 October 2016
- XVII. **PATELLAR TENDON STRAP DOES NOT AFFECT THE MAXIMAL 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
- XVIII. **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
- XIX. **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
- XX. **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
- XXI. **Barfikste Ters ve Düz Devir Hareketlerinin Biyomekanik Özellikleri**
ÖZGÖREN N. Ş. , ARITAN S.
13. Uluslararası Spor Bilimleri Kongresi, Konya, Turkey, 7 - 09 November 2014
- XXII. **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
- XXIII. **EFFECT OF YO-YO TEST-INDUCED FATIGUE ON BIOMECHANICS OF INSTEP YO-YO TEST-INDUCED FATIGUE ON BIOMECHANICS OF INSTEP KICKING IN SOCCER**
HARBİLİ E., TUNÇEL A., ARITAN S.
13th International Sport Sciences Congress, Konya, Turkey, 7 - 09 November 2014
- XXIV. **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
- XXV. **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
- XXVI. **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
- XXVII. **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
- XXVIII. **Biomechanical Modelling of Human Movement**
ARITAN S.
14th National Congress of Anatomy, Ankara, Turkey, 28 June - 01 July 2012
- XXIX. **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.
SPINEWEEK 2012, 28 May - 01 June 2012, vol.21, pp.316
- XXX. **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

- XXXI. **Biomechanical modelling in sports medicine**
ARITAN S.
6th European Sports Medicine Congress, 14 - 18 October 2009, vol.11, pp.1-178
- XXXII. **2D Torque Driven Mechanical Modelling Of Snatch**
AMCA A. M. , ARITAN S.
11th International Conference of Sport Kinetics, Halkidiki, Greece, 25 - 27 September 2009
- XXXIII. **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
- XXXIV. **The in vivo Mechanical Properties of Muscular Bulk Tissue**
ARITAN S., Oyadiji S. O. , Bartlett R. M.
Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society, Minnesota, United States Of America, 3 - 06 September 2009, pp.5259-5260
- XXXV. **HUBAG Üç Boyutlu Hareket Analizi Yazılımı**
ARITAN S., ÇİLLİ M., AMCA A. M. , ACAR Y. E.
IV. ULUSAL BİYOMEKANİK KONGRESİ, Erzurum, Turkey, 16 - 18 October 2008
- XXXVI. **UZUN ATLAMADA YERDEN ÇIKIŞ EVRESİNİN BİYOMEKANİK ANALİZİ**
ALPTEKİN A., ARITAN S.
IV. ULUSAL BİYOMEKANİK KONGRESİ, Turkey, 16 - 17 October 2008
- XXXVII. **Olimpik Kıpırma Kaldırışının Çekiş Evresinin Dinamik Modellenmesi ve Biyomekanik Analizi**
AMCA A. M. , ARITAN S.
IV. Ulusal Biyomekanik Kongresi, Erzurum, Turkey, 16 - 17 October 2008
- XXXVIII. **OLİMPİK KOPARMA KALDIRIŞININ ÇEKİŞ EVRESİNİN DİNAMİK MODELLENMESİ VE BİYOMEKANİK ANALİZİ**
AMCA A. M. , ARITAN S.
IV. ULUSAL BİYOMEKANİK KONGRESİ, Turkey, 16 - 17 October 2008
- XXXIX. **Development of Immediate Feedback Software for Optimising Glide Performance and Time of Initiating Post Glide Actions**
NAEMÍ R., ARITAN S., GOODWILL S., HAAKE S., SANDERS R.
ISEA 2008 The Engineering of Sport, Held Biarritz, France, 1 - 04 July 2008, pp.291-300
- XL. **Kaya Tırmanışına Sonlu Elemanlar Yaklaşımı ve Vücut Pozisyonu Eniyilemesi**
AMCA A. M. , ARITAN S.
4. Doğa Sporları ve Bilim Sempozyumu, Ankara, Turkey, 17 - 18 November 2007
- XLI. **EFFECT OF GRIP WIDTH ON ELECTROMYOGRAPHICAL ACTIVITY OF UPPER BODY MUSCLES AT DIFFERENT LOADS**
KİN İŞLER A., AŞCI A., ARITAN S.
12th Annual Congress European College of Sport Science, 11 - 14 July 2007
- XLII. **Spor Tırmanışta Sonlu Elemanlar Yaklaşımı**
AMCA A. M. , ARITAN S.
9. Uluslararası Spor Bilimleri Kongresi, Muğla, Turkey, 3 - 05 November 2006
- XLIII. **Uzun atlamada çıkış takeoff evresinin kinematığı 2 ve 3 boyutlu analizin karşılaştırılması**
ALPTEKİN A., ACAR Y. E. , ARITAN S.
9. Uluslararası Spor Bilimleri Kongresi, Muğla, Turkey, 3 - 05 November 2006
- XLIV. **Finite Element Approach To Rock Climbing In Static Conditions**
AMCA A. M. , ARITAN S.
XIVth Balkan Sports Medicine Congress, Albena, Bulgaria, 21 - 24 October 2006
- XLV. **The kinematic differences between successful and unsuccessful attempts in the snatch**
HARBİLİ E., ARITAN S.
10th Annual Congress European College of Sport Science, Belgrade, Serbia And Montenegro, 13 - 16 July 2005

- XLVI. PCA application for modeling and simulation of running patterns**
ÇİLLİ M., ARITAN S.
10th Annual Congress European College of Sport Science, Belgrade, Serbia And Montenegro, 13 - 16 July 2005
- XLVII. A mechanical model representation of the in vivo behaviour of bulk tissue**
ARITAN S., OYADİJİ S. O. , BARTLETT R. M.
7th Biennial Conference on Engineering Systems Design and Analysis, ESDA 2004, Manchester, United Kingdom, 19 - 22 July 2004, pp.597-603
- XLVIII. Non linear lens distortion correction procedure in biomechanical analysis of human movement**
ARITAN S., YAŞAR F.
9th Annual Congress European College of Sport Science, Clermont-Ferrand, France, 3 - 06 July 2004
- XLIX. In vivo measurement of bulk muscle properties in humans**
ARITAN S., Dabnichki P., SARGEANT A.
The Physiological Society-Cambridge Meeting, Cambridge, United Kingdom, 15 - 17 December 1997, vol.506, pp.10
- L. Programme routine for generation of three dimensional finite element mesh from magnetic imaging scans**
ARITAN S., Dabnichki P., BARTLETT R.
10th Conference of the European Society of Biomechanics, Leuven, Belgium, 28 - 31 August 1996
- LI. The accuracy of kinematic data collected from underwater three dimensional analysis**
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