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Personal Information

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Education Information

Doctorate, Hacettepe Üniversitesi, Tıp Fakültesi, Biyofizik A. D., Turkey 1999 - 2003

Under Graduate, İhsan Doğramacı Bilkent Üniversitesi, Elektrik-Elektronik Mühendisliği, Turkey 1989 - 1993

Under Graduate, Hacettepe Üniversitesi, Tıp Fakültesi, Turkey 1981 - 1993

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Biophysics, Biomedical Engineering, Biosignal Processing, Biosignal Processing, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Hacettepe Üniversitesi, Tıp Fakültesi (ingilizce), Temel Tıp Bilimleri Bölümü, 2008 - 2011

Lecturer, Hacettepe Üniversitesi, Tıp Fakültesi (ingilizce), Temel Tıp Bilimleri Bölümü, 2003 - 2008

Research Assistant, Hacettepe Üniversitesi, Tıp Fakültesi (ingilizce), Temel Tıp Bilimleri Bölümü, 1997 - 2003

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

- I. **STAR-Sonographic Thigh Adjustment Ratio A Golden Formula for the Diagnosis of Sarcopenia**
KARA M., KAYMAK B., Ata A. M. , Oezkal O., Kara O., Baki A., Senguel Aycicek G., TOPUZ S., KARAHAN S., SOYLU A. R. ,
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- II. **Developmental differences of kinematic and muscular activation patterns in instep soccer kick**
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- III. **Combined Effects of Mirror Therapy and Exercises on the Upper Extremities in Children with Unilateral Cerebral Palsy: A Randomized Controlled Trial**
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- IV. **Examination of touch-coordinate errors of adolescents with unilateral spastic cerebral palsy at an aiming-tapping task**
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- V. **The Effects of Functional Progressive Strength and Power Training in Children With Unilateral Cerebral Palsy**
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- VI. **Artifacts and Artistic Facts A Visual Simulation for Ultrasound Training**
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- VII. **A comparison of the ground reaction forces of archers with different levels of expertise during the arrow shooting**
Simsek D., Cerrah A. O. , Ertan H., Soylu A. R.
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- VIII. **Prompt sonographic scanning and quantification of lumbar muscles: Seeing the butterfly.**
GÜRÇAY E., KARA M., KAYMAK B., SOYLU A. R. , ÖZÇAKAR L.
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- IX. **Innervation zone targeted botulinum toxin injections**
KAYMAK B., KARA M., YAĞIZ ON A., SOYLU A. R. , ÖZÇAKAR L.
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- XI. **Shear Wave Elastography Is a Reliable and Repeatable Method for Measuring the Elastic Modulus of the Rectus Femoris Muscle and Patellar Tendon**
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- XII. **Effect of touch coordinate display as a form of augmented, concurrent visual feedback on the accuracy of single-handed typing via smartphone virtual keyboards**
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- XIII. **Patellar tendon mechanical properties change with gender, body mass index and quadriceps femoris muscle strength**
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- XIV. **Effect of Gender on the Quadriceps-to-Hamstrings Coactivation Ratio During Different Exercises**
HARPUT G., SOYLU A. R. , Ertan H., ERGUN N., Mattacola C. G.
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- XV. **The Effects of Surface-Induced Loads on Forearm Muscle Activity during Steering a Bicycle**
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- XVIII. **Consistency in acceleration patterns of football players with different skill levels**
Arpinar-Avsar P., SOYLU A. R.
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- XIX. **Detection of surface electromyography recording time interval without muscle fatigue effect for biceps brachii muscle during maximum voluntary contraction**
SOYLU A. R. , Arpinar-Avsar P.
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- XX. **Assessment of repeatability of surface electromyography signals by singular value decomposition**
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JOURNAL OF ELECTROMYOGRAPHY AND KINESIOLOGY, vol.18, no.4, pp.690-694, 2008 (Journal Indexed in SCI)
- XXI. **Archery performance level and repeatability of event-related EMG**
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HUMAN MOVEMENT SCIENCE, vol.25, no.6, pp.767-774, 2006 (Journal Indexed in SCI)
- XXII. **Quantification the relationship between FITA scores and EMG skill indexes in archery**
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- I. **A 10-Second Measurement of Maximum Voluntary Contractions on Some Muscle Regions: A Cross-Sectional Study**
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- II. **Determination of Electromyography-Based Coordinated Fatigue Levels in Agonist and Antagonist Muscles of the Thigh during Squat Press Exercise**
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- III. **The Effect of Kick Type on the Relationship between Kicking Leg Muscle Activation and Ball Velocity**
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- V. **Relationships Among Vertical Jumping Performance EMG Activation and Knee Extensor and Flexor Muscle Strength in Turkish Elite Male Volleyball Players**
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- VI. **HOW THE CENTRAL CONTROL SYSTEM ADAPTS TO ACUTEWHOLE BODY VIBRATION STIMULUS**
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- VII. **Comparison of different types of isometric exercises in the cervical region**
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TURKISH JOURNAL OF PHYSIOTHERAPY REHABILITATION-FIZYOTERAPI REHABILITASYON, vol.24, no.1, pp.33-41, 2013 (Journal Indexed in ESCI)
- VIII. **Acute Effects of Kinesiotaping on Muscular Endurance and Fatigue by Using Surface Electromyography Signals of Masseter Muscle**
SOYLU A. R. , IRMAK R., BALTACI Y. G.

Books & Book Chapters

I. Technologies for Needle Enhancement

SOYLU A. R.

in: Ultrasound Imaging Guidance for Musculoskeletal Interventions in Physical and Rehabilitation Medicine, levent özçakar, Franco Franchignoni, Vincezzo Ricci, Ke-Vin Chan, Eda Gürçay, G-Young Park, Editor, Edi.Ermes, pp.25-28, 2019

II. Fundamentals of Quantitative Gait Analysis

KAYMAK B., SOYLU A. R.

in: Musculoskeletal Research and Basic Science, Korkusuz, Feza, Editor, Springer, New York, pp.93-106, 2016

Refereed Congress / Symposium Publications in Proceedings

I. SPORCU VE DİĞER GRUPLARDA KAS KÜTLESİ VE GELİŞİMİNİN B-MOD ULTRASONOGRAFİİLE İNCELENMESİ

SOYLU A. R.

Uluslararası 17. Spor bilimleri Kongresi, Antalya, Turkey, 13 - 16 November 2019, pp.1787-1789

II. MOBİL TELEFON İVME SİNYALLERİNİ KULLANARAK FLEKSÖR DİĞİTORUM SUPERFİCİALİS KASYORGUNLUĞUNUN DEĞERLENDİRİLMESİ

SOYLU A. R.

Uluslararası 17. Antalya Spor Bilimleri Kongresi, Antalya, Turkey, 13 - 16 November 2019, pp.2333-2335

III. BİR 3D Kafa Vuruş SİMÜLASYON SİSTEMİNİN DEĞERLENDİRİLMESİ: ÖN ÇALIŞMA

CERRAH A. O. , ÖZER F. F. , SOYLU A. R.

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IV. Investigation of Quadriceps Muscle Thickness and Knee Function in Long Term After Anterior Cruciate Ligament Reconstruction

HARPUT G., DEMİRCİ S., SOYLU A. R. , BAYRAKCI TUNAY V.

X. Uluslararası Katılımlı SporFizyoterapistleri Kongresi, Gaziantep, Turkey, 6 - 09 November 2019, pp.40-42

V. Examination of some selected muscles sEMG activities throughout Turkish get up

KAFKAS M. E. , ÇINARLI F. S. , YILMAZ N., SOYLU A. R.

16. Uluslararası Spor Bilimleri Kongresi, Antalya, Turkey, 31 October - 03 November 2018

VI. ANALYSIS OF MUSCLE ACTIVITY AT DIFFERENT PHASES OF CZECH GET-UP EXERCISE

ÇINARLI F. S. , KAFKAS M. E. , YILMAZ N., SOYLU A. R.

16. Uluslararası Spor Bilimleri Kongresi, Antalya, Turkey, 31 October - 03 November 2018

VII. PEDOBAROGRAPHIC, MUSCULAR AND BIOMECHANICAL ANALYSIS OF PENCHÉ BALANCE ON RHYTHMIC GYMNASTICS

ÖRS B. S. , DİNÇ N., ŞİMŞEK D., BAYRAM İ., SOYLU A. R. , ERGİN E., ERTAN H.

16th International Sports Sciences Congress, 31 October - 03 November 2018

VIII. EFFECT OF MEASUREMENT REPEATING FOR EXERCISE LEARNING DURING SURFACE ELECTROMYOGRAPHY MEASUREMENTS -2

eser c., HARPUT G., ŞİMŞEK D., SOYLU A. R.

16th International Sports sciences Congress, 31 October - 03 November 2018

IX. COMPARISON OF QUADRICEPS MUSCLE FORCE-EMG RELATIONSHIP BETWEEN HEALTHY INDIVIDUALS AND ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTED PATIENTS

eser c., HARPUT G., ŞİMŞEK D., SOYLU A. R.

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X. Comparison of Plantar Fascia Thickness Between Non-Weight bearing and Weight Bearing Positions

in Healthy Adults: A Preliminary Study by Using High Resolution B-Mode Ultrasonography

KARAPINAR M., ABİT KOCAMAN A., BEK N., SOYLU A. R.

9 th International Biomechanics Congress, Eskişehir, Turkey, 19 - 22 September 2018, pp.406-407

- XI. **EVALUATING ANALYSIS DURATION OF SURFACEELECTROMYOGRAPHY (EMG) SIGNALS DURING MAXIMUM-VOLUNTARILYCONTRACTION (MVC) FOR VASTUS MEDIALIS AND LATERALIS MUSCLES**
eser c., HARPUT G., ŞİMŞEK D., SOYLU A. R.
9. Uluslararası Biyomekanik Kongresi, Eskişehir, Turkey, 19 - 22 September 2018
- XII. **EFFECT OF MEASUREMENT REPEATING FOR EXERCISE LEARNINGDURING SURFACE ELECTROMYOGRAPHY MEASUREMENTS**
eser c., HARPUT G., ŞİMŞEK D., SOYLU A. R.
9. Uluslararası Biyomekanik Kongresi, Eskişehir, Turkey, 19 - 22 September 2018
- XIII. **THE EFFECTS OF TWO DIFFERENT WRIST SPLINTS ON FOREARMMUSCLE ACTIVATION PATTERNS: A PILOT STUDY**
NAMALDI S., UYSAL Ö., SOYLU A. R. , YAKUT Y., AYHAN Ç.
9. Uluslararası Biyomekanik Kongresi, Eskişehir, Turkey, 19 - 22 September 2018
- XIV. **INVESTIGATION OF THE RELATIONSHIP BETWEEN TRANSVERSE THICKNESS AND CROSS-SECTIONAL AREA OF THE THENAR MUSCLES**
KARADEMİR F., AYHAN Ç., ARIN G., SOYLU A. R.
9. Uluslararası Biyomekanik Kongresi, Eskişehir, Turkey, 19 - 22 September 2018
- XV. **EVALUATION OF PARASTERNAL MUSCLES DURING RESPIRATORYMANEUVERS**
BOZDEMİR ÖZEL C., TEKERLEK H., ARIKAN S. H. , SOYLU A. R.
9. Uluslararası Biyomekanik Kongresi, Eskişehir, Turkey, 19 - 22 September 2018
- XVI. **THE EFFECT OF ANGLE OF ELBOW ON TRICEPS MUSCLE ACTIVITYDURING DIPS EXERCISE**
KAFKAS M. E. , ÇINARLI F. S. , SOYLU A. R.
9. Uluslararası Biyomekanik Kongresi, Eskişehir, Turkey, 19 - 22 September 2018
- XVII. **EFFECTS OF ISOMETRIC MUSCLE FATIGUE OF TRUNK MUSCLES ONSTATIC AND DYNAMIC BALANCE**
özsoy g., SÖZEN H., SOYLU A. R.
9. Uluslararası Biyomekanik Kongresi, Eskişehir, Turkey, 19 - 22 September 2018
- XVIII. **THE EFFECT OF VISUAL FEEDBACK ON INSTRUCTION OFABDOMINAL HALLOWING MANEUVER: A CASE REPORT**
BİLGİN S., DÜLGER E., morkoc b., SOYLU A. R.
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- XIX. **EXAMINATION OF HAMSTRING-QUADRICEPS MUSCLE ACTIVITIES INBRIDGE-PLANK EXERCISES PRACTICED ON DIFFERENT GROUNDS**
ÇINARLI F. S. , ÖLMEZ S. B. , KARANFİL E., güllü k., NAMALDI S., SOYLU A. R.
9. Uluslararası Biyomekanik Kongresi, Eskişehir, Turkey, 19 - 22 September 2018
- XX. **M-MODE ULTRASONOGRAPHY, VIDEO AND SOUND ANALYSISOF TRIGGER FINGER: A CASE REPORT**
NAMALDI S., AYHAN Ç., SOYLU A. R.
9. Uluslararası Biyomekanik Kongresi, Eskişehir, Turkey, 19 - 22 September 2018
- XXI. **An investigation of the correlation between upper extremity functional performance and motor control ability - a pilot study**
ADIN R. M. , CEREN A. N. , ÇETİN B., KARANFİL E., CENGİZ M. S. , SALCI Y., FİL BALKAN A., ARMUTLU K., SOYLU A. R. , AYHAN Ç.
Uluslararası 9. Biyomekanik Kongresi, 19 - 22 September 2018
- XXII. **DETERMINATION OF CO-FATIGUE LEVELS IN DOMINANT AND NON-DOMINANT AGONIST AND ANTAGONIST MUSCLES**
SÖZEN H., ERDOĞAN E., İNCE A., SOYLU A. R.
9. Uluslararası Biyomekanik Kongresi, Eskişehir, Turkey, 19 - 22 September 2018
- XXIII. **Evaluation analysis duration of surface EMG signals during maximum-voluntary contraction for vastus medialis and lateralis muscles**
eser c., HARPUT G., ŞİMŞEK D., SOYLU A. R.

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XXIV. Effect of measurement repeating for exercise learning during surface electromyographic measurements

ESER C., HARPUT G., ŞİMŞEK D., SOYLU A. R.

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XXV. Ritmik İşitsel Uyarımla Yapılan Stabilizasyon Egzersizlerinin lumbopelvik kontrol üzerine etkisi
İba S., BİLGİN S., DÜLGER E., SOYLU A. R.

Uluslararası Katılımlı 17. Fizyoterapi ve Rehabilitasyonda Gelişmeler Kongresi, Turkey, 25 - 28 April 2018

XXVI. Reactive Agility Responses in Collegiate Tennis Players after 8-Weeks Whole Body Vibration Training

BAYRAM İ., CERRAH A. O. , SOYLU A. R. , ERTAN H.

International Society of Electrophysiology and Kinesiology (ISEK), Dublin, Ireland, 30 June - 02 July 2018, pp.109

XXVII. Tenar kasların morfolojik özelliklerinin incelenmesinde kullanılan su içi ultrasonografi yönteminin gözlemciler arası güvenilirliği: Pilot çalışma.

KARADEMİR F., AYHAN Ç., ARIN G., SOYLU A. R.

17th National Hand and Upper Extremity Surgery Congress, Denizli, Turkey, 6 - 09 May 2018

XXVIII. Consistency of the lower limb acceleration patterns during inside and instep soccer kicks

ARPINAR AVŞAR P., SOYLU A. R. , ÇİÇEK Ş.

6th World Congress on Science and Football, Antalya, Turkey, 15 - 20 January 2007, vol.10, pp.28

XXIX. The Comparison of Panche Balance Phase Times for Rhythmic Gymnasts Competing at Different Categories

ÖRS B. S. , DİNÇ N., ŞİMŞEK D., SOYLU A. R. , BAYRAM İ., ERGİN E., ERTAN H.

World Congress of Sport Sciences Researches, Manisa, Turkey, 23 - 26 November 2017

XXX. Maximal Force and Surface EMG Variables During Voluntary Isometric Contraction of Leg Muscles in Athletes

KIRKAYA İ., ŞİMŞEK D., SOYLU A. R.

15.Spor Bilimleri Kongresi, 13 - 15 November 2017

XXXI. The Effect Of Real-Time Visual And Augmented Feedback Method On Touchscreen Typing Activity: A Comparative Study

Özer F. F. , KIRKAYA İ., BASTIK C., ŞİMŞEK D., SOYLU A. R.

15. Uluslararası Spor Bilimleri Kongresi, 15 - 18 November 2017

XXXII. MEASUREMENT OF HEART FREQUENCY WITH PRACTICAL ECG DEVICE IN BRITISH HORSES

CINGİ C. Ç. , SOYLU A. R.

2nd International Congress on Advances in Veterinary Sciences Technics (ICAVST), 4 - 08 October 2017

XXXIII. ULTRASOUND ELASTOGRAFİNİN SPOR BİLİMLERİNDEKİ UYGULAMALARI ÜZERİNE BİR ÇALIŞMA: GEÇMİŞ LİTERATÜR, ELASTOGRAFİNİN LİMİTASYONLARI VE DİKKAT EDİLMESİ GEREKEN KONULAR
SOYLU A. R.

ULUSLARARASI BALKAN SPOR BİLİMLERİ KONGRESİ THE INTERNATIONAL BALKAN CONFERENCE IN SPORT SCIENCES IBCSS 2017, Bursa, Turkey, 21 - 23 May 2017

XXXIV. MULTİFİDUS VE EREKTÖR SPİNA KASLARININ AKTİVASYONU İLE İLGİLİ BİR ELASTOGRAFİ ÇALIŞMASI

SOYLU A. R. , DÜLGER E., ALKAN H., BİLGİN S.

4. ULUSLARARASI BALKAN SPOR BİLİMLERİ KONGRESİ, 21 - 23 May 2017

XXXV. A PRELİMİNARY STUDY FOR EVALUATING IMMEDIATE POST-VIBRATION EFFECTS OF WHOLE BODY VIBRATION ON POSTURAL CONTROL

KIRKAYA İ., ŞİMŞEK D., SOYLU A. R.

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XXXVI. Futbolda Farklı Yaş Gruplarının Üst Vuruş Kinematik ve Kas Aktivasyon Parametrelerinin İncelenmesi
CERRAH A. O. , ŞİMŞEK D., SOYLU A. R. , ERTAN H., Nunome H.

14. Uluslararası Spor Bilimleri Kongresi, Bursa, Turkey, 1 - 04 November 2016

XXXVII. Futbol Eğitiminde Sanal Gerçeklik Uygulaması Sanal Gerçeklik Uygulamasının Spor Eğitimindeki Rolü

Futbol Eğitiminde Sanal Gerçeklik Uygulaması Örneği

CERRAH A. O. , SOYLU A. R.

14. Uluslararası Spor Bilimleri Kongresi, Bursa, Turkey, 1 - 04 November 2016, pp.746

XXXVIII. Futbolda Kafa Vuruşları İle İlgili Sanal Gerçeklik Uygulamaları İçin İki Farklı Sanal Gerçeklik Cihaz Modeli

SOYLU A. R. , CERRAH A. O.

14. Uluslararası Spor Bilimleri Kongresi, Bursa, Turkey, 1 - 04 November 2016

XXXIX. Shear wave ultrasound elastography is a reliable and repeatable method to measure elastic modulus of patellar and achilles tendons

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ECR 2016: My insights, radyoloji kongresi, Viyana, Austria, 2 - 06 March 2016

XL. Quadriceps And Hamstring Co-Activation Ratio Between Sexes During Exercises On Balance Board

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60th Annual Meeting of the American-College-of-Sports-Medicine, Indiana, United States Of America, 28 May - 01 June 2013, vol.45, pp.145-146

XLI. Ayak bileği aktivasyonu cinsiyetlere göre farklılık gösterir mi?

HARPUT G., ERGUN N., SOYLU A. R. , ERTAN H.

14. Fizyoterapide Gelişmeler Kongresi, Turkey, 26 - 28 April 2012

XLII. Muscle Recruitment Pattern In Low Back Muscles During Cycling Sprints

ARPINAR AVŞAR P., KOŞAR Ş. N. , SOYLU A. R.

13th Annual Congress of European College of Sport Science, Estoril, Portugal, 9 - 12 July 2008

XLIII. Determination of Response Time Components of Swimming Start Via Synchronized Recordings of EMG, Starting and Ground Connection Signals

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Supported Projects

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