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Education Information

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

Undergraduate, Ihsan Dogramaci Bilkent University, Elektrik-Elektronik Mühendisliği, Turkey 1989 - 1993

Undergraduate, Hacettepe University, 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 University, Tıp Fakültesi (İngilizce), Temel Tıp Bilimleri Bölümü, 2008 - 2011

Lecturer, Hacettepe University, Tıp Fakültesi (İngilizce), Temel Tıp Bilimleri Bölümü, 2003 - 2008

Research Assistant, Hacettepe University, Tıp Fakültesi (İngilizce), Temel Tıp Bilimleri Bölümü, 1997 - 2003

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Comparison of fetal and maternal tissue elasticity between euploid and aneuploid pregnancies by shear wave elastography**
Kucukbas G. N., SOYLU A. R.
Journal of Obstetrics and Gynaecology Research, vol.49, no.2, pp.568-576, 2023 (SCI-Expanded)
- II. **Association between quadriceps muscle thickness and knee function in anterior cruciate ligament reconstructed athletes: a cross-sectional study**
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- III. **Letter to editor regarding "Tossini et al. Impairment of electrical activation of wrist flexor and extensor muscles during gripping and functional activities in the early stage of hand osteoarthritis: A cross-sectional study". [J Hand Ther. 2021;34(1):109-115]**

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- IV. **Comparison of two different feedback techniques for activating the transversus abdominis: An observational study**
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- V. **STAR-Sonographic Thigh Adjustment Ratio A Golden Formula for the Diagnosis of Sarcopenia**
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- VI. **Developmental differences of kinematic and muscular activation patterns in instep soccer kick**
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- VII. **Combined Effects of Mirror Therapy and Exercises on the Upper Extremities in Children with Unilateral Cerebral Palsy: A Randomized Controlled Trial**
KAYA KARA Ö., YARDIMCI LOKMANOĞLU B. N., ŞAHİN S., ORHAN C., LİVANELİOĞLU A., SOYLU A. R.
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- VIII. **Examination of touch-coordinate errors of adolescents with unilateral spastic cerebral palsy at an aiming-tapping task**
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- IX. **The Effects of Functional Progressive Strength and Power Training in Children With Unilateral Cerebral Palsy**
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PEDIATRIC PHYSICAL THERAPY, vol.31, no.3, pp.286-295, 2019 (SCI-Expanded)
- X. **Artifacts and Artistic Facts A Visual Simulation for Ultrasound Training**
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- XII. **Prompt sonographic scanning and quantification of lumbar muscles: Seeing the butterfly.**
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- XIII. **Innervation zone targeted botulinum toxin injections**
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- XV. **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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- XVI. **Patellar tendon mechanical properties change with gender, body mass index and quadriceps femoris muscle strength**
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- XVIII. **Effect of Gender on the Quadriceps-to-Hamstrings Coactivation Ratio During Different Exercises**
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- XIX. **The Effects of Surface-Induced Loads on Forearm Muscle Activity during Steering a Bicycle**
ARPINAR-AVSAR P., Birlik G., Sezgin O. C., SOYLU A. R.
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- XX. **Activation of Selected Ankle Muscles During Exercises Performed on Rigid and Compliant Balance Platforms**
HARPUT G., SOYLU A. R., Ertan H., ERGUN N.
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- XXI. **Muscular activation patterns during the soccer in-step kick**
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ISOKINETICS AND EXERCISE SCIENCE, vol.19, no.3, pp.181-190, 2011 (SCI-Expanded)
- XXII. **Consistency in acceleration patterns of football players with different skill levels**
Arpinar-Avsar P., SOYLU A. R.
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- XXIII. **Detection of surface electromyography recording time interval without muscle fatigue effect for biceps brachii muscle during maximum voluntary contraction**
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JOURNAL OF ELECTROMYOGRAPHY AND KINESIOLOGY, vol.20, no.4, pp.773-776, 2010 (SCI-Expanded)
- XXIV. **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 (SCI-Expanded)
- XXV. **Archery performance level and repeatability of event-related EMG**
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- XXVI. **Quantification the relationship between FITA scores and EMG skill indexes in archery**
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Articles Published in Other Journals

- I. **Sports activity level after ACL reconstruction is predicted by vastus medialis or vastus medialis obliquus thickness, single leg triple hop distance or 6-m timed hop, and quality of life score**
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- II. **THE EFFECT OF TRUNK EXTENSORS AND ABDOMINAL MUSCLE FATIGUE ON STATIC AND DYNAMIC BALANCE**
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- III. **A 10-Second Measurement of Maximum Voluntary Contractions on Some Muscle Regions: A Cross-Sectional Study**
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- IV. **AN EXAMINATION OF THIGH MUSCLE ACTIVATIONS IN BRIDGE-PLANK EXERCISES PERFORMED ON**

DIFFERENT GROUNDS

Cinarli F. S., ÖLMEZ S. B., Namaldi S., KARANFİL E., Gull K., SOYLU A. R.

TURKISH JOURNAL OF PHYSIOTHERAPY REHABILITATION-TURK FIZYOTERAPI VE REHABILITASYON DERGISI, vol.31, no.2, pp.156-162, 2020 (ESCI)

- V. **Lumbal Disk Hernisinde Egzersiz ve Sağlıklı Beslenme Programının Fiziksel ve Fonksiyonel Düzey Üzerine Etkisi: Vaka Çalışması**
MORKOÇ B., BİLGİN S., DÜLGER E., SOYLU A. R., TÜRKOĞLU İ., MELEKOĞLU E.
Hacettepe Üniversitesi Sağlık Bilimleri Fakültesi Dergisi, vol.7, no.2, pp.123-135, 2020 (Peer-Reviewed Journal)
- VI. **Determination of Electromyography-Based Coordinated Fatigue Levels in Agonist and Antagonist Muscles of the Thigh during Squat Press Exercise**
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ANNALS OF APPLIED SPORT SCIENCE, vol.7, no.3, 2019 (ESCI)
- VII. **The Effect of Kick Type on the Relationship between Kicking Leg Muscle Activation and Ball Velocity**
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- VIII. **A preliminary study for evaluating immediate post-vibration effects of whole body vibration on postural control**
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- IX. **Relationships Among Vertical Jumping Performance EMG Activation and Knee Extensor and Flexor Muscle Strength in Turkish Elite Male Volleyball Players**
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- X. **HOW THE CENTRAL CONTROL SYSTEM ADAPTS TO ACUTEWHOLE BODY VIBRATION STIMULUS**
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Niğde Üniversitesi Beden Eğitimi ve Spor Bilimleri Dergisi, vol.9, no.3, 2015 (Peer-Reviewed Journal)
- XI. **Comparison of different types of isometric exercises in the cervical region**
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- XII. **Acute Effects of Kinesiotaping on Muscular Endurance and Fatigue by Using Surface Electromyography Signals of Masseter Muscle**
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- I. **Technologies for Needle Enhancement**
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- 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. **MOBİL TELEFON İVME SİNYALLERİNİ KULLANARAK FLEKSÖR DİGİTORUM SUPERFİCİALİS**

KASYORGUNLUĞUNUN DEĞERLENDİRİLMESİ

SOYLU A. R.

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

- II. **BİR 3D KAFA VURUŞ SİMÜLASYON SİSTEMİNİN DEĞERLENDİRİLMESİ: ÖN ÇALIŞMA**
CERRAH A. O., ÖZER F. F., SOYLU A. R.
17th International Sport Sciences Congress, Antalya, Turkey, 13 - 16 November 2019, pp.256
- III. **SPORCU VE DİĞER GRUPLARDA KAS KÜTLESİ VE GELİŞİMİNİN B-MOD ULTRASONOGRAFİLE İNCELENMESİ**
SOYLU A. R.
Uluslararası 17. Spor bilimleri Kongresi, Antalya, Turkey, 13 - 16 November 2019, pp.1787-1789
- 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 HAMSTRING-QUADRICEPS MUSCLE ACTIVITIES INBRIDGE-PLANK EXERCISES PRACTICED ON DIFFERENT GROUNDS**
ÇINARLI F. S., ÖLMEZ S. B., NAMALDI S., KARANFİL E., GÜLLÜ K., SOYLU A. R.
9. ULUSLARARASI BİYOMEKANİK KONGRESİ, 19 - 22 September 2018
- VI. **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
- VII. **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
- VIII. **PEDOBAROGRAPHIC, MUSCULAR AND BIOMECHANICAL ANALYSIS OF PENCHÉ BALANCE ON RHYTHMIC GYMNASTICS**
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- IX. **EFFECT OF MEASUREMENT REPEATING FOR EXERCISE LEARNING DURING SURFACE ELECTROMYOGRAPHY MEASUREMENTS -2**
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- X. **COMPARISON OF QUADRICEPS MUSCLE FORCE-EMG RELATIONSHIPBETWEEN HEALTHY INDIVIDUALS AND ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTED PATIENTS**
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- XI. **Birinci dorsal interosseöz kasına ait aktivasyon paternlerinin farklı metakarpofalangeal eklem pozisyonlarında incelenmesi: EMG çalışması**
ARIN BAL G., KARADEMİR F., SOYLU A. R., AYHAN KURU Ç.
29. Ulusal Türk Ortopedi ve Travmatoloji Kongresi, Antalya, Turkey, 30 October 2018, vol.52, pp.219
- XII. **Ön kol pozisyonları tenar kas aktivasyonunu etkiler mi?**
KARADEMİR F., AYHAN KURU Ç., ARIN BAL G., SOYLU A. R.
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- XIII. **Asemptomatik yaşlı ve genç kişilerde fleksör polllis longus tendonunun anatomik enine kesit alanının karşılaştırılması**
KARADEMİR F., AYHAN KURU Ç., ARIN BAL G., SOYLU A. R.
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- XIV. **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.

- XV. **INVESTIGATION OF THE RELATIONSHIP BETWEEN TRANSVERSE THICKNESS AND CROSS-SECTIONAL AREA OF THE THENAR MUSCLES**
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9. Uluslararası Biyomekanik Kongresi, Eskişehir, Turkey, 19 - 22 September 2018
- XVI. **EFFECT OF MEASUREMENT REPEATING FOR EXERCISE LEARNING DURING SURFACE ELECTROMYOGRAPHY MEASUREMENTS**
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9. Uluslararası Biyomekanik Kongresi, Eskişehir, Turkey, 19 - 22 September 2018
- XVII. **THE EFFECTS OF TWO DIFFERENT WRIST SPLINTS ON FOREARM MUSCLE 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
- XVIII. **EVALUATING ANALYSIS DURATION OF SURFACE ELECTROMYOGRAPHY (EMG) SIGNALS DURING MAXIMUM-VOLUNTARILY CONTRACTION (MVC) FOR VASTUS MEDIALIS AND LATERALIS MUSCLES**
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- XIX. **EVALUATION OF PARASTERNAL MUSCLES DURING RESPIRATORY MANEUVERS**
BOZDEMİR ÖZEL C., TEKERLEK H., ARIKAN S. H., SOYLU A. R.
9. Uluslararası Biyomekanik Kongresi, Eskişehir, Turkey, 19 - 22 September 2018
- XX. **THE EFFECT OF ANGLE OF ELBOW ON TRICEPS MUSCLE ACTIVITY DURING DIPS EXERCISE**
KAFKAS M. E., ÇINARLI F. S., SOYLU A. R.
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- XXI. **EFFECTS OF ISOMETRIC MUSCLE FATIGUE OF TRUNK MUSCLES ON STATIC AND DYNAMIC BALANCE**
özsoy g., SÖZEN H., SOYLU A. R.
9. Uluslararası Biyomekanik Kongresi, Eskişehir, Turkey, 19 - 22 September 2018
- XXII. **THE EFFECT OF VISUAL FEEDBACK ON INSTRUCTION OF ABDOMINAL HOLLOWING MANEUVER: A CASE REPORT**
BİLGİN S., DÜLGER E., morkoc b., SOYLU A. R.
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- XXIII. **EXAMINATION OF HAMSTRING-QUADRICEPS MUSCLE ACTIVITIES IN BRIDGE-PLANK EXERCISES PRACTICED ON DIFFERENT GROUNDS**
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- XXIV. **M-MODE ULTRASONOGRAPHY, VIDEO AND SOUND ANALYSIS OF TRIGGER FINGER: A CASE REPORT**
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- XXV. **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
- XXVI. **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.
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- XXVII. **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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- XXVIII. **Effect of measurement repeating for exercise learning during surface electromyographic**

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

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- XXIX. **Ritmik İşitsel Uyarımla Yapılan Stabilizasyon Egzersizlerinin lumbopelvik kontrol üzerine etkisi**
İba S., BİLGİN S., DÜLGER E., SOYLU A. R.
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- XXX. **Reactive Agility Responses in Collegiate Tennis Players after 8-Weeks Whole Body Vibration Training**
BAYRAM İ., CERRAH A. O., SOYLU A. R., ERTAN H.
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- XXXI. **Tenar kasların morfometrik özelliklerinin incelenmesinde kullanılan su içi ultrasonografi yönteminin gözlemciler arası güvenilirliği: Pilot çalışma.**
KARADEMİR F., AYHAN Ç., ARIN G., SOYLU A. R.
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- XXXII. **Consistency of the lower limb acceleration patterns during inside and instep soccer kicks**
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- XXXIII. **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.
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- XXXIV. **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
- XXXV. **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
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