

## Asst. Prof. BURAKHAN ÇUBUKÇU

### Personal Information

**Office Phone:** [+90 228 214 1987](tel:+902282141987)

**Email:** burakhan.cubukcu@bilecik.edu.tr

**Web:** <https://avesis.bilecik.edu.tr/burakhan.cubukcu>

### International Researcher IDs

ScholarID: \_yk4E0EAAAAJ

ORCID: 0000-0003-0480-1254

Publons / Web Of Science ResearcherID: W-8051-2018

ScopusID: 57200270038

Yoksis Researcher ID: 196525

### Education Information

Doctorate, Bilecik Seyh Edebali University, Fen Bilimleri Enstitüsü, Elektronik Ve Bilgisayar Mühendisliği (Dr), Turkey  
2016 - 2020

Postgraduate, Gazi University, Bilişim Enstitüsü, Bilişim Sistemleri, Turkey 2011 - 2013

Undergraduate, Hacettepe University, Fen Fakültesi, Matematik Bölümü, Turkey 2004 - 2012

### Academic and Administrative Experience

Bilecik Seyh Edebali University, 2021 - Continues

Bilecik Seyh Edebali University, 2017 - 2020

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Shoulder rehabilitation: a neuro-fuzzy inference approach to recovery prediction**  
Çubukçu B., Yüzgeç U.  
Neural Computing and Applications, vol.35, no.26, pp.18891-18903, 2023 (SCI-Expanded)
- II. **Kinect-based integrated physiotherapy mentor application for shoulder damage**  
Çubukçu B., Yüzgeç U., Zileli A., Zileli R.  
Future Generation Computer Systems, vol.122, pp.105-116, 2021 (SCI-Expanded)
- III. **Reliability and validity analyzes of Kinect V2 based measurement system for shoulder motions**  
ÇUBUKÇU B., YÜZGEÇ U., ZİLELİ R., Zileli A.  
Medical Engineering and Physics, vol.76, pp.20-31, 2020 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Meliorated Crab Mating Optimization Algorithms for Capacitated Vehicle Routing Problem**  
ÇUBUKÇU B., YÜZGEÇ U.  
SN Computer Science, vol.5, no.1, pp.1-20, 2024 (Peer-Reviewed Journal)
- II. **Assistive System Design with Unity Game Engine for Psychomotor Tests Preparation**  
Kuruçay E., Çubukçu B., Yüzgeç U.

- Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, vol.10, no.2, pp.273-284, 2023 (Peer-Reviewed Journal)
- III. **Kinect Tabanlı Akıllı Ayna Uygulaması**  
DİNVAR Y., ÇUBUKÇU B., YÜZGEÇ U.  
Avrupa Bilim ve Teknoloji Dergisi, vol.46, pp.46-53, 2023 (Peer-Reviewed Journal)
- IV. **OMUZ HASARLI HASTALAR İÇİN COCOMODEL İLE TELEREHABİLİTASYON UYGULAMASI**  
KILIÇEKEN S., ÇUBUKÇU B., YÜZGEÇ U.  
Eskişehir Osmangazi Üniversitesi mühendislik ve mimarlık fakültesi dergisi (online), vol.30, no.1, pp.53-60, 2022 (Peer-Reviewed Journal)
- V. **Object Recognizing Robot Application with Deep Learning**  
TALAŞ U., YÜZGEÇ U., ÇUBUKÇU B.  
Avrupa Bilim ve Teknoloji Dergisi, no.31, pp.127-133, 2021 (Peer-Reviewed Journal)
- VI. **An Augmented Reality Based Mobile Education Application For Preschool Children**  
Koca B. A., YÜZGEÇ U., ÇUBUKÇU B.  
BSEU Journal of Engineering Research and Technology, vol.2, no.1, 2021 (Peer-Reviewed Journal)

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **Kiraz Yapraklarında Hastalık Tespitinde Transfer Öğrenme Yöntemlerinin Kıyaslaması**  
Bozcu H., ÇUBUKÇU B.  
The 17th International Scientific Research Congress, Ankara, Turkey, 19 - 20 August 2023, pp.163-173
- II. **Transfer Öğrenme Yöntemleri ile Meyve Yapraklarında Hastalık Tespiti**  
Bozcu H., ÇUBUKÇU B.  
4th International Conference on Applied Engineering and Natural Sciences, 10 November 2022
- III. **Görüntüler üzerinde Mutluluk Duygusunun Tespiti**  
AKÇA B., ÇUBUKÇU B., YÜZGEÇ U.  
ISITES 2019, 7th International Symposium on Innovative Technologies in Engineering and Science, URFA, Turkey, 22 - 24 November 2019, pp.324-333
- IV. **Nesne Takibi Yapan Robot Uygulaması (RasPiBot)**  
ÇOBAN M. E., ÇUBUKÇU B., YÜZGEÇ U.  
ISITES2019, 7th International Symposium on Innovative Technologies in Engineering and Science, URFA, Turkey, 22 - 24 November 2019, pp.334-341
- V. **QR Kod Kullanılarak Raspberry Pi Tabanlı Robot Uygulaması: QR-Robot**  
ÇOBAN M. E., ÇUBUKÇU B., YAYLA R., YÜZGEÇ U.  
UBMK2019, International Conference on Computer Science and Engineering, Samsun, Turkey, 11 - 15 September 2019, pp.119-123
- VI. **Hand Exercise Applications Based on Microcontroller using Unity 3D Platform For Paralytic Patients**  
BÜŞRA NUR G., ÇUBUKÇU B., YAYLA R., YÜZGEÇ U.  
The 8th International Conference on Advanced Technologies (ICAT'19), SARAYBOSNA, Bosnia And Herzegovina, 26 - 30 August 2019, pp.342-347
- VII. **Virtual Eye Application for Visually Impaired Patients**  
KAYA K., ÇALIK B., ÇUBUKÇU B., YÜZGEÇ U.  
ISMSIT2019, 3rd International Symposium on Multidisciplinary Studies and Innovative Technologies, Ankara, Turkey, 10 - 12 October 2019
- VIII. **Real-time 2D Human Skeleton Monitoring System**  
KILIÇEKEN S., ÇUBUKÇU B., YÜZGEÇ U.  
ISMSIT2019, 3rd International Symposium on Multidisciplinary Studies and Innovative Technologies, Ankara, Turkey, 10 - 12 October 2019
- IX. **Kinect based Office Exercises: BreakOut**  
GARİP B., ÇUBUKÇU B., SERİN Z., YÜZGEÇ U.  
ISMSIT2019, 3rd International Symposium on Multidisciplinary Studies and Innovative Technologies, Ankara,

- Turkey, 10 - 12 October 2019
- X. **Augmented Reality Application for Preschool Children with Unity 3D Platform**  
Koca B. A., ÇUBUKÇU B., YÜZGEÇ U.  
3rd International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2019, Ankara, Turkey, 11 - 13 October 2019
- XI. **Real-time 2D Human Skeleton Monitoring System Gercek Zamanli 2D Insan Iskeleti Izleme Sistemi**  
Kilicceken S., ÇUBUKÇU B., YÜZGEÇ U.  
3rd International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2019, Ankara, Turkey, 11 - 13 October 2019
- XII. **Virtual Eye Application for Visually Impaired Patients Görme Engelli Hastalar icin Sanal Göz Uygulamasi**  
Kaya K., Calik B., ÇUBUKÇU B., YÜZGEÇ U.  
3rd International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2019, Ankara, Turkey, 11 - 13 October 2019
- XIII. **Derin Öğrenme ile Nesne Tanıyan Robot Uygulaması**  
TALAS U., YÜZGEÇ U., ÇUBUKÇU B.  
UBMK2019, International Conference on Computer Science and Engineering, Samsun, Turkey, 11 - 15 September 2019
- XIV. **Raspberry Pi Based Robot Application using QR Code: QR-Robot QR Kod Kullanicilarak Raspberry Pi Tabanli Robot Uygulamasi: QR-Robot**  
Coban M. E., ÇUBUKÇU B., YAYLA R., YÜZGEÇ U.  
4th International Conference on Computer Science and Engineering, UBMK 2019, Samsun, Turkey, 11 - 15 September 2019, pp.119-123
- XV. **Leap Motion Based Physical Therapy Application for Stroke Patients**  
Yildiz M., ÇUBUKÇU B., Serin Z., YÜZGEÇ U.  
3rd International Conference on Computer Science and Engineering, UBMK 2018, Sarajevo, Bosnia And Herzegovina, 20 - 23 September 2018, pp.190-194
- XVI. **Remote Vehicle Control with Leap Motion Touchless Sensor**  
Kaya M., ÇUBUKÇU B., YÜZGEÇ U.  
3rd International Conference on Computer Science and Engineering, UBMK 2018, Sarajevo, Bosnia And Herzegovina, 20 - 23 September 2018, pp.292-297
- XVII. **Additional Course Fee Management (AdCoFeeM) System for Academicians**  
ÇUBUKÇU B., TURKAN M., YÜZGEÇ U., DANDIL E.  
5th International Congress on Fundamental and Applied Sciences 2018 (ICFAS2018), Üsküp, Macedonia, 18 - 22 June 2018
- XVIII. **Development of A Personnel Information System for Universities**  
TURKAN M., ÇUBUKÇU B., DANDIL E., YÜZGEÇ U.  
5th International Congress on Fundamental and Applied Sciences 2018 (ICFAS2018), Üsküp, 18 - 22 June 2018
- XIX. **A Kinect 2 Based Telerehabilitation Method for Shoulder Rehabilitation Exercises**  
ÇUBUKÇU B., YÜZGEÇ U., ZİLELİ R., Zileli A.  
International Conference on Advanced Technologies, Computer Engineering and Science (ICATCES'18), 11 - 13 May 2018, pp.53-56
- XX. **Monogamous Crab Mating Optimization Algorithm for Solving Vehicle Routing Problem**  
ÇUBUKÇU B., YÜZGEÇ U.  
International Conference on Advanced Technologies, Computer Engineering and Science (ICATCES'18), 11 - 13 May 2018, pp.49-52
- XXI. **Monogamous Adaptive Crab Optimization Algorithm For Single Objective Optimization Problems**  
ÇUBUKÇU B., YÜZGEÇ U.  
International Congress on Engineering and Life Sciences (ICELIS'18), 26 - 29 April 2018
- XXII. **Web Platform Design for Telerehabilitation of Shoulder Rehabilitation Exercises.**  
ÇUBUKÇU B., YÜZGEÇ U., ZİLELİ R., ZİLELİ A.

- International Congress on Life Sciences, Kastamonu, Turkey, 26 - 29 April 2018, pp.229
- XXIII. **Web Platform Design for Telerehabilitation of Shoulder Rehabilitation Exercises**  
ÇUBUKÇU B., YÜZGEÇ U., ZİLELİ R., Zileli A.  
International Congress on Engineering and Life Sciences (ICELIS'18), 26 - 29 April 2018
- XXIV. **A physiotherapy application with MS kinect for patients with shoulder joint, muscle and tendon damage**  
ÇUBUKÇU B., YÜZGEÇ U.  
9th International Conference on Computational Intelligence and Communication Networks, CICN 2017, Girne, Cyprus (Gkry), 16 - 17 September 2017, vol.2018-January, pp.225-228
- XXV. **Monogamous crab mating optimization algorithm Tek Eşli Yengeç Çiftleşme Optimizasyon Algoritması**  
ÇUBUKÇU B., YÜZGEÇ U.  
2nd International Conference on Computer Science and Engineering, UBMK 2017, Antalya, Turkey, 5 - 08 October 2017, pp.60-65
- XXVI. **MS kinect based tracking application for knee anterior cruciate ligament physical therapy Diz On Capraz Bağ Fizik Tedavisi için MS Kinect Tabanlı Takip Uygulaması**  
Dinvar Y., ÇUBUKÇU B., YÜZGEÇ U.  
2nd International Conference on Computer Science and Engineering, UBMK 2017, Antalya, Turkey, 5 - 08 October 2017, pp.894-898
- XXVII. **MS Kinect Based Tracking Application for Knee Anterior Cruciate Ligament Physical Therapy**  
DİNVAR Y., ÇUBUKÇU B., YÜZGEÇ U.  
UBMK2017, International Conference on Computer Science and Engineering, Antalya, Turkey, 5 - 08 October 2017, pp.935-939
- XXVIII. **Monogamous Crab Mating Optimization Algorithm**  
ÇUBUKÇU B., YÜZGEÇ U.  
UBMK2017, International Conference on Computer Science and Engineering, Antalya, Turkey, 5 - 08 October 2017, pp.65-70
- XXIX. **MS KINECT APPLICATIONS AND OPPORTUNITIES FOR PEOPLE WITH PHYSICAL DISABILITIES**  
ÇUBUKÇU B., ÇETİN A.  
Uluslararası Multidisipliner Konferans, 21 - 22 April 2016

## Supported Projects

ZİLELİ R., ÇUBUKÇU B., YÜZGEÇ U., Project Supported by Higher Education Institutions, Omuz Eklemi, Kas ve Tendon Hasarlı Hastalar için Ms Kinect ile Mentör Uygulaması, 2017 - 2018