

## Asst. Prof. UFUK ÇELİKCAN

### Personal Information

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### Education Information

Postgraduate, Ihsan Dogramaci Bilkent University, Faculty Of Engineering, Bilgisayar Mühendisliği, Turkey 2011 - 2015

Doctorate, University of California, Riverside, Bours College Of Engineering, Electrical Engineering, United States Of America 2006 - 2013

Undergraduate, Bogazici University, Faculty Of Engineering, Elektrik-Elektronik Mühendisliği, Turkey 2001 - 2006

### Foreign Languages

Japanese, B1 Intermediate

English, C1 Advanced

German, B1 Intermediate

### Dissertations

Postgraduate, Perceived disparity refinement in virtual environments, Bilkent Üniversitesi, Mühendislik Ve Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), 2015

### Research Areas

Information Systems, Communication and Control Engineering, Communication Engineering, Wireless Communication, Radio, Television Broadcasting, Signal Processing, Multi-mode Signal Processing, Image and Video Processing, Signal Processing for Communication, Speech Analysis and Processing Techniques, Signal Processing Theory and Methods, Computer Sciences, Computer Graphics, Computer Graphics, Virtual Reality, Computer Vision, 3D Impressions, Computer Vision, Artificial Intelligence, Computer Learning and Pattern Recognition, Computer Learning, Pattern Recognition and Image Processing, Electrical and Electronics Engineering, Engineering and Technology

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

- I. **Learning based versus heuristic based: A comparative analysis of visual saliency prediction in immersive virtual reality**  
Askin M. B. , ÇELİKCAN U.  
COMPUTER ANIMATION AND VIRTUAL WORLDS, 2022 (Journal Indexed in SCI)
- II. **Enhancing VR experience with RBF interpolation based dynamic tuning of stereoscopic rendering**  
Avan E., ÇAPIN T. K. , GÜRÇAY H., ÇELİKCAN U.  
COMPUTERS & GRAPHICS-UK, vol.102, pp.390-401, 2022 (Journal Indexed in SCI)
- III. **Synthetic18K: Learning better representations for person re-ID and attribute recognition from 1.4**

### **million synthetic images**

Uner O. C. , Aslan C., Ercan B., Ates T., ÇELİKCAN U., Erdem A., Erdem E.

SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.97, 2021 (Journal Indexed in SCI)

- IV. **Using synthetic data for person tracking under adverse weather conditions**  
Kerim A., ÇELİKCAN U., Erdem E., Erdem A.  
IMAGE AND VISION COMPUTING, vol.111, 2021 (Journal Indexed in SCI)
- V. **NOVA: Rendering Virtual Worlds with Humans for Computer Vision Tasks**  
Kerim A., Aslan C., ÇELİKCAN U., Erdem E., Erdem A.  
COMPUTER GRAPHICS FORUM, 2021 (Journal Indexed in SCI)
- VI. **Assessment of Virtual Reality as an Anxiety and Disgust Provoking Tool: The Use of VR Exposure in Individuals With High Contamination Fear**  
İNÖZÜ MERMERKAYA M., ÇELİKCAN U., TRAK E., ÜZÜMCÜ E., NERGİZ H.  
CYBERPSYCHOLOGY-JOURNAL OF PSYCHOSOCIAL RESEARCH ON CYBERSPACE, vol.15, no.1, 2021 (Journal Indexed in SSCI)
- VII. **Usability Study of a Novel Tool: The Virtual Cafeteria in Nutrition Education**  
IŞGIN ATICI K., Ozkan A., ÇELİKCAN U., EDE G., Aslan C., Bulbul A. S. , BÜYÜKTUNCER DEMİREL Z., KANBUR N.  
JOURNAL OF NUTRITION EDUCATION AND BEHAVIOR, vol.52, no.11, pp.1058-1065, 2020 (Journal Indexed in SCI)
- VIII. **Deep into visual saliency for immersive VR environments rendered in real-time**  
ÇELİKCAN U., AŞKIN M., Albayrak D., ÇAPIN T. K.  
COMPUTERS & GRAPHICS-UK, vol.88, pp.70-82, 2020 (Journal Indexed in SCI)
- IX. **The use of virtual reality (VR) exposure for reducing contamination fear and disgust: Can VR be an effective alternative exposure technique to in vivo?**  
İNÖZÜ MERMERKAYA M., ÇELİKCAN U., AKIN B., Cicek N. M.  
JOURNAL OF OBSESSIVE-COMPULSIVE AND RELATED DISORDERS, vol.25, 2020 (Journal Indexed in SCI)
- X. **A comprehensive study of the affective and physiological responses induced by dynamic virtual reality environments**  
Cebeci B., ÇELİKCAN U., ÇAPIN T. K.  
COMPUTER ANIMATION AND VIRTUAL WORLDS, vol.30, 2019 (Journal Indexed in SCI)
- XI. **Image reproduction with compensation of luminance adaptation**  
ÇELİKCAN U., Arpa S., Capin T.  
SIGNAL IMAGE AND VIDEO PROCESSING, vol.11, no.1, pp.155-162, 2017 (Journal Indexed in SCI)
- XII. **Example-Based Retargeting of Human Motion to Arbitrary Mesh Models**  
ÇELİKCAN U., YAZ I. O. , Capin T.  
COMPUTER GRAPHICS FORUM, vol.34, no.1, pp.216-227, 2015 (Journal Indexed in SCI)

### **Articles Published in Other Journals**

- I. **Anksiyete Bozukluklarında Sanal Gerçeklik**  
ÜZÜMCÜ E., AKIN B., NERGİZ H., İNÖZÜ M., ÇELİKCAN U.  
Psikiyatride Guncel Yaklasimler - Current Approaches in Psychiatry, vol.10, pp.99-107, 2018 (Refereed Journals of Other Institutions)

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

- I. **Investigating The Role of Virtual Reality as an Anxiety and Disgust Provoking Tool in Contamination Sensitivity**  
İNÖZÜ M., ÇELİKCAN U., ÜZÜMCÜ E., NERGİZ H., TRAK E.  
16th European Congress of Psychology, Moskva, Russia, 2 - 06 July 2019
- II. **Visual Saliency Prediction in Dynamic Virtual Reality Environments Experienced with Head-Mounted**

### **Displays: an Exploratory Study**

Albayrak D., AŞKIN M., ÇAPIN T. K. , ÇELİKCAN U.

18th International Conference on Cyberworlds (CW), Kyoto, Japan, 2 - 04 October 2019, pp.61-68

### **III. Q-Learning with Naive Bayes Approach Towards More Engaging Game Agents**

Yilmaz O., ÇELİKCAN U.

International Conference on Artificial Intelligence and Data Processing (IDAP), Malatya, Turkey, 28 - 30 September 2018

### **IV. The Virtual Cafeteria: An Immersive Environment for Interactive Food Portion-Size Education**

ÇELİKCAN U., Bulbul A. S. , Aslan C., BÜYÜKTUNCER DEMİREL Z., IŞGIN ATICI K., EDE G., KANBUR N.

3rd Workshop on Multisensory Approaches to Human-Food Interaction, Colorado, United States Of America, 16 October 2018

### **V. Anomaly detection using improved background subtraction**

Bilge Y. C. , KAYA F., İKİZLER CİNBIŞ N., ÇELİKCAN U., SEVER H.

2017 25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, Turkey, 15 - 18 May 2017

## **Supported Projects**

ÇELİKCAN U., İKİZLER CİNBIŞ N., ÖZSOY A., EFE M. Ö. , GÜRÇAY H., ERDEM İ. A. , DUYGULU ŞAHİN P., Project Supported by Higher Education Institutions, Bilgisayar Mühendisliği Yüksek Başarımlı Hesaplama Eğitim ve Araştırma Laboratuvarı, 2017 - 2020

İNÖZÜ MERMERKAYA M., ÇELİKCAN U., AKIN B., ÜZÜMCÜ E., TRAK E., NERGİZ H., Project Supported by Higher Education Institutions, SANAL GERÇEKLİK İLE MARUZ BIRAKMANIN BULAŞMA KİRLENME KAYGISINI AZALTMADAKİ ETKİLİLİĞİNİN İNCELENMESİ, 2017 - 2018

ÇELİKCAN U., Project Supported by Higher Education Institutions, Kaydedilmiş İnsan Hareket Verisinin 3B Örgü Modellerine Örnek Bazlı Aktarılması, 2016 - 2016

ÇELİKCAN U., Project Supported by Higher Education Institutions, Hareket Yakalama Verisinin Toplanması ve Saklanması, 2015 - 2015

## **Citations**

Total Citations (WOS):13

h-index (WOS):2