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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: H-1191-2017

ScopusID: 27867506800

Yoksis Researcher ID: 230961

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

1. NOVAAction23: Addressing the data diversity gap by uniquely generated synthetic sequences for real-world human action recognition

Tasoren A. E., ÇELİKCAN U.

Computers and Graphics (Pergamon), vol.118, pp.1-10, 2024 (SCI-Expanded)

- II. **Gaze-directed and saliency-guided approaches of stereo camera control in interactive virtual reality**
Cebeci B., Askin M. B., Çapın T. K., ÇELİKCAN U.
Computers and Graphics (Pergamon), vol.118, pp.23-32, 2024 (SCI-Expanded)
- III. **Task-Based Visual Attention for Continually Improving the Performance of Autonomous Game Agents**
Ulu E., Çapın T. K., Çelikkale B., ÇELİKCAN U.
Electronics (Switzerland), vol.12, no.21, 2023 (SCI-Expanded)
- IV. **The relationship between cybersickness and eye-activity in response to varying speed, scene complexity and stereoscopic VR parameters**
Ozkan A., ÇELİKCAN U.
International Journal of Human Computer Studies, vol.176, 2023 (SCI-Expanded)
- V. **Effects of speed, complexity and stereoscopic VR cues on cybersickness examined via EEG and self-reported measures**
Ozkan A., Uyan U., ÇELİKCAN U.
Displays, vol.78, 2023 (SCI-Expanded)
- VI. **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, vol.33, 2022 (SCI-Expanded)
- VII. **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 (SCI-Expanded)
- VIII. **NOVA: Rendering Virtual Worlds with Humans for Computer Vision Tasks**
Kerim A., Aslan C., ÇELİKCAN U., Erdem E., Erdem A.
COMPUTER GRAPHICS FORUM, vol.40, no.6, pp.258-272, 2021 (SCI-Expanded)
- IX. **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 (SCI-Expanded)
- X. **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 (SCI-Expanded)
- XI. **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 (SSCI)
- XII. **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 (SCI-Expanded)
- XIII. **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 (SCI-Expanded)
- XIV. **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 (SCI-Expanded)
- XV. **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 (SCI-Expanded)

XVI. 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 (SCI-Expanded)

XVII. 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 (SCI-Expanded)

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 (Peer-Reviewed Journal)

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 CİNBİŞ 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 CİNBİŞ 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 GERÇEKLIK İLE MARUZ BIRAKMANIN BULAŞMA KİRLLENME 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

Metrics

Publication: 25

Citation (WoS): 23

Citation (Scopus): 24

H-Index (WoS): 3

H-Index (Scopus): 4