

# Prof. ULUS ÇEVİK

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: G-6496-2018

Yoksis Researcher ID: 48331

## Education Information

Doctorate, University of Sussex, Eaps, Electrical And Computer Engineering, United Kingdom 1991 - 1996

Postgraduate, Gaziantep University, Institute Of Science, Elektrik Elektronik Mühendisliği, Turkey 1988 - 1990

Undergraduate, Middle East Technical University, Elektrik Elektronik Mühendisliği, Turkey 1982 - 1988

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, Design of an FPGA Based Parallel Architecture Processor for Displaying CSG Volumes and Surfaces, University of Sussex, Eaps, Electrical And Computer Engineering, 1996

Postgraduate, Automated Environmental Preconditioning for Efficient Plant Growth, Gaziantep University, Fen Bilimleri Enstitüsü, Elektrik Elektronik Mühendisliği, 1990

## Research Areas

Computer Sciences, Computer Graphics, Computer Graphics, Equipment, Logic Design, Engineering and Technology

## Academic Titles / Tasks

Professor, Cukurova University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2002 - Continues

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

- Analysis of breast cancer classification robustness with radiomics feature extraction and deep learning techniques**  
Rashid H. U., İBRİKÇİ T., PAYDAŞ S., BİNOKAY F., ÇEVİK U.  
EXPERT SYSTEMS, vol.39, no.8, 2022 (SCI-Expanded)

- II. **Ensemble learning of multiview CNN models for survival time prediction of brain tumor patients using multimodal MRI scans**  
Mossa A. A., ÇEVİK U.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.29, no.2, pp.616-631, 2021 (SCI-Expanded)
- III. **An Efficient Noisy Pixels Detection Model for CT Images using Extreme Learning Machines**  
ÇALIŞKAN A., ÇEVİK U.  
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.25, no.3, pp.679-686, 2018 (SCI-Expanded)
- IV. **A robust polynomial regression-based voice activity detector for speaker verification**  
DISKEN G., TÜFEKÇİ Z., ÇEVİK U.  
EURASIP JOURNAL ON AUDIO SPEECH AND MUSIC PROCESSING, 2017 (SCI-Expanded)
- V. **Selective surface normal estimation for volume rendering**  
CELEBI O. C., ÇEVİK U.  
INTELLIGENT AUTOMATION AND SOFT COMPUTING, vol.23, no.1, pp.95-102, 2017 (SCI-Expanded)
- VI. **Speaker Model Clustering to Construct Background Models for Speaker Verification**  
DISKEN G., TÜFEKÇİ Z., ÇEVİK U.  
ARCHIVES OF ACOUSTICS, vol.42, no.1, pp.127-135, 2017 (SCI-Expanded)
- VII. **Neville interpolation-based normal estimation**  
aezyildirim B. M., ÇEVİK U.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.25, no.1, pp.200-208, 2017 (SCI-Expanded)
- VIII. **A Review on Feature Extraction for Speaker Recognition under Degraded Conditions**  
DISKEN G., TÜFEKÇİ Z., SARIBULUT L., ÇEVİK U.  
IETE TECHNICAL REVIEW, vol.34, no.3, pp.321-332, 2017 (SCI-Expanded)
- IX. **Endoscopic instrument tracking for surgical simulation training in a controlled environment via a camera and a planar mirror.**  
DAYAK E., Çevik U.  
Computers in biology and medicine, vol.67, pp.161-71, 2015 (SCI-Expanded)
- X. **Accelerating volume rendering by ray leaping with back steps**  
CELEBI O. C., ÇEVİK U.  
COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE, vol.97, no.2, pp.99-113, 2010 (SCI-Expanded)
- XI. **AN AUTOMATED PERSPECTIVE-PROJECTED VIEW MODULE FOR PIXEL-BASED CSG RENDERERS**  
Cevik U.  
INTELLIGENT AUTOMATION AND SOFT COMPUTING, vol.14, no.4, pp.417-427, 2008 (SCI-Expanded)
- XII. **A new approach for the voxelization of volumetric CSG graphs**  
KOC S., Cevik U.  
COMPUTERS & ELECTRICAL ENGINEERING, vol.30, no.4, pp.245-255, 2004 (SCI-Expanded)
- XIII. **Design and implementation of an FPGA-based parallel graphics renderer for displaying CSG surfaces and volumes**  
Cevik U.  
COMPUTERS & ELECTRICAL ENGINEERING, vol.30, no.2, pp.97-117, 2004 (SCI-Expanded)

## Articles Published in Other Journals

- I. **A Design of Fully Automated Irrigation System IoT-Based Approach for Greenhouses**  
ERİŞ H., ÇELİKTOPUZ E., ÇEVİK U., KAPUR B.  
Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.37, no.3, pp.699-706, 2022 (Peer-Reviewed Journal)
- II. **Performance Evaluation of Various Regression Models and Features for Prediction of Ozone Concentration**  
Dümen S., AVŞAR E., ÇEVİK U.

Cukurova University Journal of the Faculty of Engineering, vol.35, no.3, pp.567-573, 2020 (Peer-Reviewed Journal)

III. **Three-Dimensional Modeling in Medical Image Processing by Using Fractal Geometry**

Caliskan A., ÇEVİK U.

JOURNAL OF COMPUTERS, vol.12, no.5, pp.479-485, 2017 (ESCI)

IV. **Obtaining Half-Space Representation of Solid Models Interactively**

ÖZGENÇ N., ÇEVİK U.

Cukurova University Journal of Science and Engineering, vol.17, pp.108-116, 2008 (Non Peer-Reviewed Journal)

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

I. **Ensemble of Deep Learning Models for Automatic Tuberculosis Diagnosis Using Chest CT Scans: Contribution to the ImageCLEF-2020 Challenges**

Mossa A. A., ERİŞ H., ÇEVİK U.

Conference and Labs of the Evaluation Forum, CEUR Workshop, Thessaloniki, Greece, 22 September 2020

II. **Triplanar-CNN for Automated Grading of Gliomas Using Preoperative Multi-Modal MR Images**

Mossa A. A., ÇEVİK U.

International E-Conference on Advances in Engineering, Technology and Management - ICETM 2020, 31 May 2020, pp.21-27

III. **Multi-View CNN with MLP for Diagnosing Tuberculosis Patients Using CT Scans and Clinically Relevant Metadata.**

Mossa A. A., Yibre A. M., ÇEVİK U.

Working Notes of CLEF 2019 - Conference and Labs of the Evaluation Forum At: Lugano, Switzerland, 9 - 12 September 2019

IV. **Implementation of Target Tracking Methods on Images Taken from Unmanned Aerial Vehicles**

ERİŞ H., ÇEVİK U.

17th IEEE World Symposium on Applied Machine Intelligence and Informatics, SAMI 2019, Herl'any, Slovakia, 24 - 26 January 2019, pp.311-316

V. **Detection and 3D Modeling of Brain Tumors Using Image Segmentation Methods and Volume Rendering**

KAYALI D., ÇEVİK U.

International Conference on Artificial Intelligence towards Industry 4.0, Hatay, Turkey, 15 - 17 November 2018, vol.1, pp.97-103

VI. **A Comparative Analysis of Denoising Techniques in 2D and 3D Medical Images**

ÇALIŞKAN A., ÇEVİK U., ACAR E.

International Engineering and Technology Symposium (IETS'18), Batman, Turkey, 3 - 05 May 2018, pp.791-794

VII. **Real-Time Speaker Independent Isolated Word Recognition on Banana Pi**

Diken G., Saribulut L., TÜFEKÇİ Z., ÇEVİK U.

10th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Iasi, Romania, 28 - 30 June 2018

VIII. **3D Medical Image Processing By Using Filtering Methods**

CALISKAN A., ÇEVİK U.

INESEC 2016 International Engineering, Science, and Education Conference, Diyarbakır, Turkey, 1 - 03 December 2016, pp.1256-1263

IX. **3D Pose Estimation for Laparoscopic Instruments: A Single Camera and a Planar Mirror Approach**

Dayak E., ÇEVİK U.

9th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 November 2015, pp.213-217

X. **Overview of Computer Graphics and Algorithms**

Caliskan A., ÇEVİK U.

23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015,

pp.831-834

- XI. **An Interactive Constructive Solid Geometry Modeling Tool**  
ÖZGENÇ N., ÇEVİK U.  
Scientific Collaboration for Sustainable Development - Second Annual YOK-SUNY Collaboration Symposium, Adana, Turkey, 23 - 25 May 2007, pp.136-142
- XII. **Microcontroller-based implementation of a perspective view module for pixel-based CSG renderers**  
OZKAN K., ÇEVİK U.  
International Conference on Applied Electronics, Pilsen, Czech Republic, 6 - 07 September 2006, pp.133-136
- XIII. **Volumetric CSG Graph and its Voxelization**  
KOC S., ÇEVİK U.  
ELECO'2003 Third International Conference on Electrical and Electronics Engineering, Bursa, Turkey, 3 - 07 December 2003, pp.289-292
- XIV. **Hacimsel Görüntü Grafiğinin Blist Gösterimi**  
KOC S., ÇEVİK U.  
Elektrik-Elektronik Bilgisayar Mühendisliği 10. Ulusal Kongresi, İstanbul, Turkey, 18 - 21 September 2003, vol.2, pp.496-498
- XV. **A Template-Based Algorithm for Volume Rendering**  
CELEBI O. C., ÇEVİK U.  
TAINN 2003 International XII Turkish Symposium on Artificial Intelligence and Neural Networks, Çanakkale, Turkey, 2 - 04 July 2003, vol.1, no.1, pp.371-378
- XVI. **A CSG Clipping Algorithm**  
KOC S., ÇEVİK U.  
TAINN 2003 International XII Turkish Symposium on Artificial Intelligence and Neural Networks, Çanakkale, Turkey, 2 - 04 July 2003, vol.1, no.1, pp.359-361
- XVII. **Konveks ve Konkav Cisimlerin Görüntülenmesi için Kırpma Algoritması**  
ÇEVİK U., KOC S.  
ELECO'2002 Elektrik-Elektronik Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 18 - 22 December 2002, vol.1, pp.13-16
- XVIII. **Üç Boyutlu Cisimlerin Görüntü Algoritmaları için Bir Aydınlatma Modeli**  
KOC S., ÇEVİK U.  
Elektrik-Elektronik Bilgisayar Mühendisliği 8. Ulusal Kongresi, Gaziantep, Turkey, 6 - 12 September 1999, vol.1, pp.13-16
- XIX. **Programlanabilir Mantık Denetleyiciler (PLC'ler) ve Halı Dokuma Makinasına Uygulanmaları**  
ÇEVİK U.  
Elektrik-Elektronik Bilgisayar Mühendisliği 8. Ulusal Kongresi, Gaziantep, Turkey, 6 - 12 September 1999, vol.2, pp.543-546
- XX. **Development of an Algorithm for the Elimination of Surface Sorting in the Stage of Hidden Surface Removal in Displaying Constructive Solid Geometry (CSG) Volumes and Surfaces**  
KOC S., ÇEVİK U.  
CAR&FOF' 98 14th International Conference on CAD/CAM, Robotics and Factories of the Future, Coimbatore, India, 30 November - 03 December 1998, vol.1, pp.37-43
- XXI. **DESIGN AND IMPLEMENTATION OF AN INTELLIGENT FRAME BUFFER IN A TRADITIONAL DISPLAY PIPELINE SYSTEM**  
CEVIK U., COLIN M., THOMAS A.  
7th Mediterranean Electrotechnical Conference (MeleCON 94), Antalya, Turkey, 12 - 14 April 1994, pp.347-350
- XXII. **A Bi-Modal Display System**  
THOMAS A., ÇEVİK U.  
3rd International Workshop on Field Programmable Logic and Applications, Oxford, United Kingdom, 7 - 10 September 1993, pp.1

## Supported Projects

ÇEVİK U., Mossa A. A., Project Supported by Higher Education Institutions, Fully Automatic Deep Learning and Machine Learning Based Prognosis Models for Survival Prediction of Brain Tumor Patients Using Multimodal MRI Images, 2018 - 2021

ÇEVİK U., ERİŞ H., Project Supported by Higher Education Institutions, Implementation of Target Tracking Methods on Images Taken from UAV Unmanned Aerial Vehicles, 2018 - 2019

## Scientific Refereeing

TUBITAK Project, August 2017

TUBITAK Project, August 2017

TUBITAK Project, July 2017

TUBITAK Project, July 2017

TUBITAK Project, July 2017

TUBITAK Project, July 2017

TUBITAK Project, July 2017

TUBITAK Project, April 2017

TUBITAK Project, May 2016

TUBITAK Project, March 2016

TUBITAK Project, March 2016

TUBITAK Project, March 2016

TUBITAK Project, February 2016

TUBITAK Project, July 2015

TUBITAK Project, June 2015

TUBITAK Project, June 2015

TUBITAK Project, April 2015

TUBITAK Project, April 2015

TUBITAK Project, March 2015

TUBITAK Project, January 2015

TUBITAK Project, December 2014

TUBITAK Project, October 2014

TUBITAK Project, October 2014

TUBITAK Project, June 2007

TUBITAK Project, October 2006

## Metrics

Publication: 39

Citation (WoS): 71

Citation (Scopus): 94

H-Index (WoS): 4

H-Index (Scopus): 4

## Congress and Symposium Activities

EAIE 2017, Attendee, Sevilla, Spain, 2017

EAIE 2016, Attendee, Liverpool, United Kingdom, 2016