

## Assoc. Prof. YUSUF SAHİLLİOĞLU

### Personal Information

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### Education Information

Doctorate, Koç Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Bilimleri Ve Mühendisliği (Dr), Turkey 2008 - 2012

Post Graduate, University of Florida, Mühendislik, Bilgisayar Mühendisliği, United States Of America 2006 - 2008

Post Graduate, Koç Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik Ve Bilgisayar Mühendisliği (YI) (Tezli), Turkey 2004 - 2006

Under Graduate, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey 2000 - 2004

### Dissertations

Doctorate, Algorithms for 3D isometric shape correspondence, Koç Üniversitesi, Bilgisayar Bilimleri Ve Mühendisliği (Dr), 2012

Post Graduate, A surface deformation framework for 3d shape recovery, Koç Üniversitesi, Elektrik Ve Bilgisayar Mühendisliği (YI) (Tezli), 2006

### Research Areas

Computer Sciences, Computer Graphics, Computer Vision, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2018 - Continues

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2014 - 2018

### Professional Experience

Deputy Head of Department, Middle East Technical University, Faculty Of Engineering, Department Of Computer Engineering, 2018 - Continues

### Advising Theses

SAHİLLİOĞLU Y., YAMAN U., Extracting auxetic patterns from meshes for 3d printing, Post Graduate,

L.MEHMET(Student), 2018

SAHİLLİOĞLU Y., EPIIC:: a novel encoding pluggable lossless data compression algorithm, Post Graduate,

T.İSMAİL(Student), 2018

KALKAN S., SAHİLLİOĞLU Y., Deep 3D semantic scene extrapolation, Post Graduate, A.ABBASI(Student), 2018

SAHİLLİOĞLU Y., Part-based data-driven shape interpolation, Post Graduate, M.AYDINLILAR(Student), 2018

SAHİLLİOĞLU Y., 3D indirect shape retrieval based on hand interaction, Post Graduate, E.CAN(Student), 2017

SAHİLLİOĞLU Y., Dynamic voxelization to aid illumination of real-time scenes, Post Graduate, B.YALÇINER(Student), 2016

COŞAR A., SAHİLLİOĞLU Y., Scalable evolutionary algorithm for solving the one-dimensional bin packing problem on GPU using CUDA, Post Graduate, Ş.ÖZER(Student), 2015

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Voxel transformation: scalable scene geometry discretization for global illumination**  
Yalciner B., SAHİLLİOĞLU Y.  
JOURNAL OF REAL-TIME IMAGE PROCESSING, vol.17, pp.1585-1596, 2020 (Journal Indexed in SCI)
- **Recent advances in shape correspondence**  
SAHİLLİOĞLU Y.  
VISUAL COMPUTER, vol.36, pp.1705-1721, 2020 (Journal Indexed in SCI)
- **A fabrication-oriented remeshing method for auxetic pattern extraction**  
Mert L. M. , YAMAN U., SAHİLLİOĞLU Y.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.28, pp.1535-1548, 2020 (Journal Indexed in SCI)
- **3D indirect shape retrieval based on hand interaction**  
Irmak E. C. , SAHİLLİOĞLU Y.  
VISUAL COMPUTER, vol.36, pp.5-17, 2020 (Journal Indexed in SCI)
- **3D skeleton transfer for meshes and clouds**  
SEYLAN Ç., SAHİLLİOĞLU Y.  
GRAPHICAL MODELS, vol.105, 2019 (Journal Indexed in SCI)
- **Deep 3D semantic scene extrapolation**  
Abbasi A., Kalkan S., Sahillioglu Y.  
VISUAL COMPUTER, vol.35, pp.271-279, 2019 (Journal Indexed in SCI)
- **A Genetic Isometric Shape Correspondence Algorithm with Adaptive Sampling**  
SAHİLLİOĞLU Y.  
ACM TRANSACTIONS ON GRAPHICS, vol.37, 2018 (Journal Indexed in SCI)
- **An evaluation of canonical forms for non-rigid 3D shape retrieval**  
Pickup D., Liu J., Sun X., Rosin P. L. , Martin R. R. , Cheng Z., Lian Z., Nie S., Jin L., Shamaï G., et al.  
GRAPHICAL MODELS, vol.97, pp.17-29, 2018 (Journal Indexed in SCI)
- **Sketch-Based Articulated 3D Shape Retrieval**  
SAHİLLİOĞLU Y., SEZGİN T. M.  
IEEE COMPUTER GRAPHICS AND APPLICATIONS, vol.37, pp.88-101, 2017 (Journal Indexed in SCI)
- **A marching algorithm for isosurface extraction from face-centered cubic lattices**  
SAHİLLİOĞLU Y.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.25, pp.2501-2512, 2017 (Journal Indexed in SCI)
- **Detail-Preserving Mesh Unfolding for Nonrigid Shape Retrieval**  
SAHİLLİOĞLU Y., Kavan L.  
ACM TRANSACTIONS ON GRAPHICS, vol.35, 2016 (Journal Indexed in SCI)
- **A shape deformation algorithm for constrained multidimensional scaling**  
SAHİLLİOĞLU Y.

- COMPUTERS & GRAPHICS-UK, vol.53, pp.156-165, 2015 (Journal Indexed in SCI)  
**Skuller: A volumetric shape registration algorithm for modeling skull deformities**  
SAHİLLİOĞLU Y., Kavan L.
- MEDICAL IMAGE ANALYSIS, vol.23, pp.15-27, 2015 (Journal Indexed in SCI)  
**Multiple Shape Correspondence by Dynamic Programming**  
SAHİLLİOĞLU Y., Yemez Y.  
COMPUTER GRAPHICS FORUM, vol.33, pp.121-130, 2014 (Journal Indexed in SCI)

## Supported Projects

Sahilliođlu Y., TUBITAK Project, Sanal Tıp İin Geometrik Modelleme Araları, 2015 - 2018

SAHİLLİOĐLU Y., Project Supported by Higher Education Institutions, Őekil Deformasyonu ile DuruŐ Eniyilemesi, 2015 - 2016

## Activities in Scientific Journals

Visual Computer, Editor, 2019 - Continues

## Citations

Total Citations (WOS):47

h-index (WOS):4