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Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Graduate School Of Natural And Applied Sciences, Turkey 2005 - 2010

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Graduate School Of Natural And Applied Sciences, Turkey 2002 - 2005

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Computer Engineering, Turkey 1997 - 2002

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Part embedding for shape grammars, Middle East Technical University, 2010

Postgraduate, Acceleration of direct volume rendering with texture slabs on programmable graphics hardware, Middle East Technical University, 2005

Research Areas

Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Engineering and Technology

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Iterative facial image inpainting based on an encoder-generator architecture**
    Dogan Y., Keles H.
    Neural Computing and Applications, vol.34, no.12, pp.10001-10021, 2022 (SCI-Expanded)
II. **A Hierarchical Approach to Remote Sensing Scene Classification**
    Sen O., Keles H.
    PFG - Journal of Photogrammetry, Remote Sensing and Geoinformation Science, vol.90, no.2, pp.161-175, 2022

(SCI-Expanded)

III. **Using Motion History Images with 3D Convolutional Networks in Isolated Sign Language Recognition**
Mercanoglu Sincan O., Keles H.
IEEE Access, vol.10, pp.18608-18618, 2022 (SCI-Expanded)

IV. **Evaluation of hidden Markov models using deep CNN features in isolated sign recognition**
Tur A. O., Keles H.
MULTIMEDIA TOOLS AND APPLICATIONS, vol.80, no.13, pp.19137-19155, 2021 (SCI-Expanded)

V. **On the Evaluation of CNN Models in Remote-Sensing Scene Classification Domain**
Sen O., Keles H.
PFG-JOURNAL OF PHOTOGRAMMETRY REMOTE SENSING AND GEOINFORMATION SCIENCE, vol.88, no.6, pp.477-492, 2020 (SCI-Expanded)

VI. **Semi-supervised image attribute editing using generative adversarial networks**
Dogan Y., Keles H.
NEUROCOMPUTING, vol.401, pp.338-352, 2020 (SCI-Expanded)

VII. **Learning multi-scale features for foreground segmentation**
Lim L. A., Keles H.
PATTERN ANALYSIS AND APPLICATIONS, vol.23, no.3, pp.1369-1380, 2020 (SCI-Expanded)

VIII. **AUTSL: A Large Scale Multi-Modal Turkish Sign Language Dataset and Baseline Methods**
Sincan O. M., Keles H.
IEEE ACCESS, vol.8, pp.181340-181355, 2020 (SCI-Expanded)

IX. **DeepVoCoder: A CNN Model for Compression and Coding of Narrow Band Speech**
Keles H., Rozhon J., Ilk H. G., Voznak M.
IEEE ACCESS, vol.7, pp.75081-75089, 2019 (SCI-Expanded)

X. **Foreground segmentation using convolutional neural networks for multiscale feature encoding**
Lim L. A., Keles H.
PATTERN RECOGNITION LETTERS, vol.112, pp.256-262, 2018 (SCI-Expanded)

XI. **Embedding parts in shape grammars using a parallel particle swarm optimization method on graphics processing units**
Keles H.
AI EDAM-ARTIFICIAL INTELLIGENCE FOR ENGINEERING DESIGN ANALYSIS AND MANUFACTURING, vol.32, no.3, pp.256-268, 2018 (SCI-Expanded)

XII. **A robust method for scale independent detection of curvature-based criticalities and intersections in line drawings**
Keles H., TARI Z. S.
PATTERN RECOGNITION, vol.48, no.1, pp.140-155, 2015 (SCI-Expanded)

XIII. **Weighted shapes for embedding perceived wholes**
Keles H., Özkar Kabakçıoğlu M., Tani S.
ENVIRONMENT AND PLANNING B-PLANNING & DESIGN, vol.39, no.2, pp.360-375, 2012 (SSCI)

XIV. **Embedding shapes without predefined parts**
Keles H., Özkar Kabakçıoğlu M., TARI Z. S.
ENVIRONMENT AND PLANNING B-PLANNING & DESIGN, vol.37, no.4, pp.664-681, 2010 (SSCI)

XV. **Acceleration of direct volume rendering with programmable graphics hardware**
Yalim Keles H., Es A., Isler V.
VISUAL COMPUTER, vol.23, no.1, pp.15-24, 2007 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. **Few-shot Audio Classification using Contrastive Training**
Cigdem E. F., YALIM KELEŞ H.
32nd IEEE Signal Processing and Communications Applications Conference (SIU), Mersin, Turkey, 15 - 18 May

2024

II. **Towards Better Communication: Refining Hand Pose Estimation in Low-Resolution Sign Language Videos**
Tasyurek U. M., Kiziltepe T., YALIM KELEŞ H.
18th International Conference on Automatic Face and Gesture Recognition (FG), İstanbul, Turkey, 27 - 31 May 2024

III. **Skin Disease Classification using Few-Shot Meta-Transfer Learning Birkaç Atişli Meta-Transfer Öğrenme ile Cilt Hastaliği Siniflandirma**
ÖZDEMİR Z., YALIM KELEŞ H., Ozgur Tanriover O.
30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Turkey, 15 - 18 May 2022

IV. **A Novel Visual Attribute Disentanglement Approach using Self-Supervision Yeni Bir Öz-Denetimli Görsel Özellik Ayriştirma Yöntemi**
Aktas A. A., YALIM KELEŞ H., ASKERBEYLİ İ.
30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Turkey, 15 - 18 May 2022

V. **Deep learning based cell segmentation using cascaded U-net models Ardişik U-net modelleri ile derin öğrenme tabanli hücre bölütlemesi**
Bakir M. E., Yalim Keles H.
29th IEEE Conference on Signal Processing and Communications Applications, SIU 2021, Virtual, Istanbul, Turkey, 9 - 11 June 2021

VI. **Covid-19 detection in chest X-ray images with deep learning Derin öğrenme ile göğüs röntgeni görüntülerinde Covid-19 algilama**
ÖZDEMİR Z., Yalim Keles H.
29th IEEE Conference on Signal Processing and Communications Applications, SIU 2021, Virtual, Istanbul, Turkey, 9 - 11 June 2021

VII. **ChaLearn LAP Large Scale Signer Independent Isolated Sign Language Recognition Challenge: Design, Results and Future Research**
Sincan O. M., Jacques Junior J. C. S., Escalera S., Keles H.
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), ELECTR NETWORK, 19 - 25 June 2021, pp.3467-3476

VIII. **Sign Language Video Synthesis using Skeleton Sequence Skelet Sekans ile aret Dili Videosu Sentezleme**
Gencoglu S., Keles H.
28th Signal Processing and Communications Applications Conference, SIU 2020, Gaziantep, Turkey, 5 - 07 October 2020

IX. **Hand and Face Segmentation with Deep Convolutional Networks using Limited Labelled Data**
Sincan O. M., Gencoglu S., Bacak M., Keles H.
3rd International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2019, Ankara, Turkey, 11 - 13 October 2019

X. **A Comparative Study of HMMs and LSTMs on Action Classification with Limited Training Data**
Alp E. C., Keles H.
Intelligent Systems Conference (IntelliSys), London, Canada, 6 - 07 September 2018, vol.868, pp.1102-1115

XI. **Scene Recognition with Deep Learning Methods Using Aerial Images**
Sen O., Yalim Keles H.
27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, 24 - 26 April 2019

XII. **Stability and Diversity in Generative Adversarial Networks**
Dogan Y., Keles H.
27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, 24 - 26 April 2019

XIII. **Isolated Sign Recognition with a Siamese Neural Network of RGB and Depth Streams**
Tur A. O., Keles H.

18th IEEE International Conference on Smart Technologies (IEEE EUROCON), Novi-Sad, Serbia, 1 - 04 July 2019

XIV. **Isolated Sign Language Recognition with Multi-scale Features using LSTM**
Mercanoglu Sincan O., Tur A. O., Yalim Keles H.
27th Signal Processing and Communications Applications Conference (SIU), Sivas, Turkey, 24 - 26 April 2019

XV. **Action Recognition Using MHI Based Hu Moments with HMMs**
Alp E. C., Keles H.
IEEE EUROCON -17th International Conference on Smart Technologies, Ohrid, Macedonia, 6 - 08 July 2017, pp.212-216

XVI. **Moving object detection by a mounted moving camera**
Sincan O. M., Ajabshir V. B., Keles H., TOSUN S.
International Conference on Computer as a Tool, IEEE EUROCON 2015, Salamanca, Spain, 8 - 11 September 2015

XVII. **Embedding Parts in Sketches Using a Parallel Evolutionary Approach**
Keles H.
33rd International Conference on Education and Research in Computer Aided Architectural Design in Europe (eCAADe), Vienna, Austria, 16 - 18 September 2015, pp.269-276

XVIII. **Moving Object Detection by a Mounted Moving Camera**
Sincan O. M., Ajabshir V. B., Keles H., TOSUN S.
International Conference on Computer as a Tool (EUROCON), IEEE, Salamanca, Mexico, 8 - 11 September 2015, pp.334-339

XIX. **Revisiting Shape Embedding**
Keles H., Özkar Kabakçıoğlu M., TARI Z. S.
27th Conference on Education and Research in Computer Aided Architectural Design in Europe, İstanbul, Turkey, 16 - 19 September 2009, pp.229-236

Metrics

Publication: 34
Citation (WoS): 221
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