

Prof.Dr. Gözde Ünal

Kişisel Bilgiler

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Uluslararası Araştırmacı ID'leri

Publons / Web Of Science ResearcherID: A-2360-2013

ScopusID: 55850183600

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Biyografi

Dr. Gözde Ünal lisans derecesini 1996 senesinde ODTÜ'den, yüksek lisans derecesini 1998 senesinde Bilkent Üniversitesi'nden almıştır. Doktora derecesini Elektrik ve Bilgisayar Mühendisliği ana dalında ve Matematik yandalında North Carolina State Üniversitesi'nden 2002 senesinde almıştır. Georgia Institute of Technology'de 1 sene postdoktora araştırma görevlisi olarak çalışmıştır. Siemens Corporate Research Amerika'da 2003-2007 seneleri arasında araştırmacı bilim insanı olarak görev almıştır. Sabancı Üniversitesi Mühendislik ve Doğa Bilimleri Fakültesinde 2007-2015 seneleri arasında öğretim üyeliği yapmıştır. İstanbul Teknik Üniversitesi Bilgisayar Mühendisliği Bölümü'ne 2015'de katılan Dr. Ünal, halen profesör olarak görevini sürdürmektedir. Araştırma alanları bilgisayarla görme ve makine öğrenmesi üzerindedir. Prof. Ünal 2017 senesinde Avrupa Komisyonu Marie Curie Mezunlar Derneği'nden Kariyer Ödülü, 2010 senesinde L'Oreal Türkiye'den Yılın Genç Bilim Kadını Ödülü, 2010 senesinde Türkiye Bilimler Akademisi'nden Üstün Başarılı Genç Bilim İnsanı (GEBİP) Ödülü'nü almıştır.

Eğitim Bilgileri

Doktora, North Carolina State University, Electrical And Computer Engineering, Amerika Birleşik Devletleri 1998 - 2002
Yüksek Lisans, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Ve Fen Bilimleri Fakültesi, Türkiye 1996 - 1998
Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 1992 - 1996

Yabancı Diller

İngilizce

Yaptığı Tezler

Doktora, Curve and Polygon Evolution Techniques for Image Processing, North Carolina State University, Electrical And Computer Engineering, 2002

Yüksek Lisans, Novel Methods in Image Halftoning, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Ve Fen Bilimleri Fakültesi, 1998

Araştırma Alanları

Teknik Bilimler, Bilgisayar Bilimleri, Bilgisayarla Görme, 3B Gösterimler, Bilgisayarla Görme

Akademik Unvanlar / Görevler

Prof.Dr., İstanbul Teknik Üniversitesi, Bilgisayar ve Bilişim, Bilgisayar Mühendisliği, 2017 - 2020
Doç.Dr., İstanbul Teknik Üniversitesi, Bilgisayar ve Bilişim, Bilgisayar Mühendisliği, 2015 - 2017
Doç.Dr., Sabancı Üniversitesi, Mühendislik Ve Doğa Bilimleri Fakültesi, Mühendislik Ve Doğa Bilimleri Programları Bölümü, 2011 - 2015
Yrd.Doç.Dr., Sabancı Üniversitesi, Mühendislik Ve Doğa Bilimleri Fakültesi, 2007 - 2011
Öğretim Görevlisi Dr., Georgia Institute of Technology, School Of Electrical Engineering, Electrical And Computer Engineering, 2002 - 2003
Araştırma Görevlisi, North Carolina State University, School Of Electrical And Computer Engineering, Electrical And Computer Engineering, 1998 - 2002
Araştırma Görevlisi, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1996 - 1998

Verdiği Dersler

PROBABILITY THEORY AND STOCHASTIC PROCESSES, Yüksek Lisans, 2016 - 2017, 2015 - 2016
Computer Vision, Lisans, 2016 - 2017

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. <p>Single image depth estimation: An overview
</p>
Mertan A., Duff D. J., Ünal G.
DIGITAL SIGNAL PROCESSING, cilt.123, 2022 (SCI-Expanded)
- II. Exploring DeshuffleGANs in Self-Supervised Generative Adversarial Networks
Baykal Can G., Ozcelik F., Ünal G.
PATTERN RECOGNITION, cilt.122, 2022 (SCI-Expanded)
- III. ODFNet: Using orientation distribution functions to characterize 3D point clouds
Şahin Y. H., Mertan A., Ünal G.
Computers and Graphics (Pergamon), cilt.102, ss.610-618, 2022 (SCI-Expanded)
- IV. Detecting visual design principles in art and architecture through deep convolutional neural networks
Demir G., Cekmis A., Yesilkaynak V. B., Ünal G.
AUTOMATION IN CONSTRUCTION, cilt.130, 2021 (SCI-Expanded)
- V. CHAOS Challenge- combined (CT-MR) healthy abdominal organ segmentation
Kavur A. E., GEZER N. S., Baris M., ASLAN S., Conze P., Groza V., Duc Duy Pham D. D. P., Chatterjee S., Ernst P., Ozkan S., et al.
MEDICAL IMAGE ANALYSIS, cilt.69, 2021 (SCI-Expanded)
- VI. Rethinking CNN-Based Pansharpening: Guided Colorization of Panchromatic Images via GANs
Ozcelik F., Algancı U., Sertel E., Ünal G.
IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, cilt.59, sa.4, ss.3486-3501, 2021 (SCI-Expanded)
- VII. Anncolvar: Approximation of Complex Collective Variables by Artificial Neural Networks for Analysis and Biasing of Molecular Simulations
Trapl D., Horvacanin I., Mareska V., Ozcelik F., Ünal G., Spiwok V.
FRONTIERS IN MOLECULAR BIOSCIENCES, cilt.6, 2019 (SCI-Expanded)
- VIII. Bandlets on Oriented Graphs: Application to Medical Image Enhancement
Kafieh R., Rabbani H., Ünal G.
IEEE ACCESS, cilt.7, ss.32589-32601, 2019 (SCI-Expanded)
- IX. Asymmetric Orientation Distribution Functions (AODFs) revealing intravoxel geometry in diffusion

MRI

Karayumak S. C., Ozarslan E., Ünal G.

MAGNETIC RESONANCE IMAGING, cilt.49, ss.145-158, 2018 (SCI-Expanded)

- X. **Neighborhood resolved fiber orientation distributions (NRFOD) in automatic labeling of white matter fiber pathways**

Ugurlu D., Firat Z., Ture U., Ünal G.

MEDICAL IMAGE ANALYSIS, cilt.46, ss.130-145, 2018 (SCI-Expanded)

- XI. **Single-frame super resolution of remote-sensing images by convolutional neural networks**

Tuna C., Ünal G., Sertel E.

INTERNATIONAL JOURNAL OF REMOTE SENSING, cilt.39, sa.8, ss.2463-2479, 2018 (SCI-Expanded)

- XII. **Guest editorial of the IJCARS MICCAI 2016 special issue**

Ourselin S., Sabuncu M. R., Wells W., Joskowicz L., Ünal G., Maier A.

INTERNATIONAL JOURNAL OF COMPUTER ASSISTED RADIOLOGY AND SURGERY, cilt.12, sa.8, ss.1243-1244, 2017 (SCI-Expanded)

- XIII. **Semi-automated detection of anterior cruciate ligament injury from MRI**

Stajduhar I., Mamula M., Miletic D., Uenal G.

COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE, cilt.140, ss.151-164, 2017 (SCI-Expanded)

- XIV. **Targeted vessel reconstruction in non-contrast-enhanced steady-state free precession angiography**

Ilicak E., Cetin S., Bulut E., Oguz K. K., Saritas E. U., Ünal G., Cukur T.

NMR IN BIOMEDICINE, cilt.29, sa.5, ss.532-544, 2016 (SCI-Expanded)

- XV. **Landmarks inside the shape: Shape matching using image descriptors**

Guler R. A., Tari S., Unal G.

PATTERN RECOGNITION, cilt.49, ss.79-88, 2016 (SCI-Expanded)

- XVI. **A Higher-Order Tensor Vessel Tractography for Segmentation of Vascular Structures**

Cetin S., Unal G.

IEEE TRANSACTIONS ON MEDICAL IMAGING, cilt.34, sa.10, ss.2172-2185, 2015 (SCI-Expanded)

- XVII. **The Multimodal Brain Tumor Image Segmentation Benchmark (BRATS)**

Menze B. H., JAKAB A., Bauer S., Kalpathy-Cramer J., FARAHANI K., KIRBY J., Burren Y., Porz N., Slotboom J., Wiest R., et al.

IEEE TRANSACTIONS ON MEDICAL IMAGING, cilt.34, sa.10, ss.1993-2024, 2015 (SCI-Expanded)

- XVIII. **Screened Poisson Hyperfields for Shape Coding**

Guler R. A., Tari S., Unal G.

SIAM JOURNAL ON IMAGING SCIENCES, cilt.7, sa.4, ss.2558-2590, 2014 (SCI-Expanded)

- XIX. **Standardized evaluation framework for evaluating coronary artery stenosis detection, stenosis quantification and lumen segmentation algorithms in computed tomography angiography**

Kirisli H. A., SCHAAP M., METZ C. T., DHARAMPAL A. S., MEIJBOOM W. B., PAPADOPOULOU S. L., DEDIC A., NIEMAN K., DE GRAAF M. A., Meijs M. F. L., et al.

MEDICAL IMAGE ANALYSIS, cilt.17, sa.8, ss.859-876, 2013 (SCI-Expanded)

- XX. **Template-based CTA to x-ray angio rigid registration of coronary arteries in frequency domain with automatic x-ray segmentation**

Aksoy T., Unal G., DEMIRCI S., NAVAB N., Degertekin M.

MEDICAL PHYSICS, cilt.40, sa.10, 2013 (SCI-Expanded)

- XXI. **An IVUS image-based approach for improvement of coronary plaque characterization**

Taki A., ROODAKI A., SETAREHDAN S. K., AVANSARI S., Unal G., NAVAB N.

COMPUTERS IN BIOLOGY AND MEDICINE, cilt.43, sa.4, ss.268-280, 2013 (SCI-Expanded)

- XXII. **Vessel Tractography Using an Intensity Based Tensor Model With Branch Detection**

Cetin S., Demir A., Yezzi A., Degertekin M., Unal G.

IEEE TRANSACTIONS ON MEDICAL IMAGING, cilt.32, sa.2, ss.348-363, 2013 (SCI-Expanded)

- XXIII. **Translation, Scale, and Deformation Weighted Polar Active Contours**

Baust M., Yezzi A., Unal G., NAVAB N.

JOURNAL OF MATHEMATICAL IMAGING AND VISION, cilt.44, sa.3, ss.354-365, 2012 (SCI-Expanded)

- XXIV. Tumor-Cut: Segmentation of Brain Tumors on Contrast Enhanced MR Images for Radiosurgery Applications**
 Hamamci A., KUCUK N., KARAMAN K., ENGIN K., Unal G.
 IEEE TRANSACTIONS ON MEDICAL IMAGING, cilt.31, sa.3, ss.790-804, 2012 (SCI-Expanded)
- XXV. Plant Image Retrieval Using Color, Shape and Texture Features**
 Kebapci H., Yanikoglu B., Unal G.
 COMPUTER JOURNAL, cilt.54, sa.9, ss.1475-1490, 2011 (SCI-Expanded)
- XXVI. Generating shapes by analogies: An application to hearing aid design**
 Unal G., NAIN D., SLABAUGH G., FANG T.
 COMPUTER-AIDED DESIGN, cilt.43, sa.1, ss.47-56, 2011 (SCI-Expanded)
- XXVII. Coupled Nonparametric Shape and Moment-Based Intershape Pose Priors for Multiple Basal Ganglia Structure Segmentation**
 Uzunbas M. G., Soldea O., Unay D., Cetin M., Unal G., Ercil A., EKIN A.
 IEEE TRANSACTIONS ON MEDICAL IMAGING, cilt.29, sa.12, ss.1959-1978, 2010 (SCI-Expanded)
- XXVIII. Stent implant follow-up in intravascular optical coherence tomography images**
 Unal G., Gurmeric S., CARLIER S. G.
 INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING, cilt.26, sa.7, ss.809-816, 2010 (SCI-Expanded)
- XXIX. EFFICIENT CLASSIFICATION OF SCANNED MEDIA USING SPATIAL STATISTICS**
 Unal G., Sharma G., ESCHBACH R.
 INTERNATIONAL JOURNAL OF PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE, cilt.24, sa.6, ss.917-946, 2010 (SCI-Expanded)
- XXX. A NEW APPROACH FOR IMPROVING CORONARY PLAQUE COMPONENT ANALYSIS BASED ON INTRAVASCULAR ULTRASOUND IMAGES**
 Taki A., HETTERICH H., ROODAKI A., SETAREHDAN S. K., Unal G., RIEBER J., NAVAB N., KOENIGY A.
 ULTRASOUND IN MEDICINE AND BIOLOGY, cilt.36, sa.8, ss.1245-1258, 2010 (SCI-Expanded)
- XXXI. 3D ball skinning using PDEs for generation of smooth tubular surfaces**
 Slabaugh G., Whited B., Rossignac J., FANG T., Unal G.
 COMPUTER-AIDED DESIGN, cilt.42, sa.1, ss.18-26, 2010 (SCI-Expanded)
- XXXII. STATISTICAL REGION-BASED SEGMENTATION OF ULTRASOUND IMAGES**
 Slabaugh G., Unal G., WELS M., FANG T., RAO B.
 ULTRASOUND IN MEDICINE AND BIOLOGY, cilt.35, sa.5, ss.781-795, 2009 (SCI-Expanded)
- XXXIII. 3-D shape modeling for hearing aid design**
 Slabaugh G., Fang T., McBagonluri F., Zouhar A., Melkisetoglu R., Xie H., Unal G.
 IEEE SIGNAL PROCESSING MAGAZINE, cilt.25, sa.5, ss.98-102, 2008 (SCI-Expanded)
- XXXIV. Shape-driven segmentation of the arterial wall in intravascular ultrasound images**
 Unal G., BUCHER S., Carlier S., SLABAUGH G., FANG T., TANAKA K.
 IEEE TRANSACTIONS ON INFORMATION TECHNOLOGY IN BIOMEDICINE, cilt.12, sa.3, ss.335-347, 2008 (SCI-Expanded)
- XXXV. Estimation of vector fields in unconstrained and inequality constrained variational problems for segmentation and registration**
 Unal G., SLABAUGH G.
 JOURNAL OF MATHEMATICAL IMAGING AND VISION, cilt.31, sa.1, ss.57-72, 2008 (SCI-Expanded)
- XXXVI. A variational approach to problems in calibration of multiple cameras**
 Unal G., YEZZI A., SOATTO S., SLABAUGH G.
 IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE, cilt.29, sa.8, ss.1322-1338, 2007 (SCI-Expanded)
- XXXVII. Efficient segmentation based on Eikonal and diffusion equations**
 Alvino C., Unal G., SLABAUGH G., PENY B., FANG T.
 INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, cilt.84, sa.9, ss.1309-1324, 2007 (SCI-Expanded)
- XXXVIII. Fast incorporation of optical flow into active polygons**
 Unal G., KRIM H., YEZZI A.

- IEEE TRANSACTIONS ON IMAGE PROCESSING, cilt.14, sa.6, ss.745-759, 2005 (SCI-Expanded)
- XXXIX. Information-theoretic active polygons for unsupervised texture segmentation**
Unal G., YEZZI A., Krim H.
INTERNATIONAL JOURNAL OF COMPUTER VISION, cilt.62, sa.3, ss.199-220, 2005 (SCI-Expanded)
- XL. Stochastic differential equations and geometric flows**
Unal G., Krim H., YEZZI A.
IEEE TRANSACTIONS ON IMAGE PROCESSING, cilt.11, sa.12, ss.1405-1416, 2002 (SCI-Expanded)
- XLI. Unifying probabilistic and variational estimation**
Hamza A., Krim H., Unal G.
IEEE SIGNAL PROCESSING MAGAZINE, cilt.19, sa.5, ss.37-47, 2002 (SCI-Expanded)
- XLII. Restoration of error-diffused images using projection onto convex sets**
Unal G., CETIN A.
IEEE TRANSACTIONS ON IMAGE PROCESSING, cilt.10, sa.12, ss.1836-1841, 2001 (SCI-Expanded)
- XLIII. QR-RLS algorithm for error diffusion of color images**
Unal G., YARDIMCI Y., ARIKAN O. A., CETIN A.
OPTICAL ENGINEERING, cilt.39, sa.11, ss.2860-2866, 2000 (SCI-Expanded)

Diger Dergilerde Yayınlanan Makaleler

- I. Cellular automata segmentation of brain tumors on post contrast MR images.**
HAMAMCI A., Unal G., KUCUK N., ENGIN K.
Medical image computing and computer-assisted intervention : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention, cilt.13, ss.137-46, 2010 (Hakemli Dergi)

Kitap & Kitap Bölümleri

- I. Proceedings of the Medical Image Computing and Computer-Assisted Intervention – MICCAI 2016**
Ourselin S., Joskowicz L., Sabuncu M., Ünal G., Wells W.
Springer-Verlag , New York, 2016
- II. Vessel Orientation Constrained Quantitative Susceptibility Mapping (QSM) Reconstruction**
Çetin S., Bilgiç B., Fan A., Holdsworth S., Ünal G.
Medical Image Computing and Computer Assisted Intervention, Ourselin S., Joskowicz L., Sabuncu M., Unal G., Wells W., Editör, Springer, London/Berlin , New York, ss.467-474, 2016
- III. Elucidating intravoxel geometry in diffusion-MRI: Asymmetric orientation distribution functions (AODFs) revealed by a cone model**
Çetin S., Özarslan E., Ünal G.
Proceedings of the Medical Image Computing and Computer Assisted Intervention, Navab N., Hornegger J., Wells W.M., Frangi A.F., Editör, Springer, London/Berlin , New York, ss.231-238, 2015
- IV. A Scalable Fluctuating Distance Field: An Application to Tumor Shape Analysis**
Güler R. A., Hamamci A., Ünal G.
Research in Shape Analysis, Leonard K., Tari S., Editör, Springer-Verlag , Lozan, ss.9-25, 2015
- V. Registration of Brain Tumor Images Using Hyper-Elastic Regularization**
Hamamci A., Ünal G.
Computational Biomechanics for Medicine: Models, Algorithms and Implementation, Wittek A., Miller K., Nielsen P.M.F., Editör, Springer, New York, ss.101-114, 2013
- VI. On a Stochastic Model of Geometric Snakes**
Yezzi A., Ünal G., Nain D., Tannenbaum A., Zeitouni O.
Handbook of Mathematical Models of Computer Vision, Paragios N., Faugeras O., Chen Y., Editör, Springer, New York, ss.161-174, 2006

- VII. **Efficient Incorporation of Flow Into Visual Motion Estimation in Tracking**
Ünal G., Yezzi A., Krim H.
Machine Learning and Robot Perception, Patnaik S., Jain L.C., Tzafestas G., Bannore V., Editör, Springer, New York, ss.167-202, 2005

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Facial Expressions Detection of Children with Hearing Impairment İşitme Engelli Çocukların Yüz Ifadeleri Tespiti**
Bozkurt M., Öncel F., Gurpinar C., Köse H., Ünal G.
30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Türkiye, 15 - 18 Mayıs 2022
- II. **One-Class Classification of 3D Point Clouds Using Dynamic Graph CNN**
Gencer Z., Şahin Y. H., Ünal G.
7th International Conference on Computer Science and Engineering, UBMK 2022, Diyarbakır, Türkiye, 14 - 16 Eylül 2022, ss.388-392
- III. **UGQE: Uncertainty Guided Query Expansion**
Öncel F., Aygün M., Baykal G., Ünal G.
3rd International Conference on Pattern Recognition and Artificial Intelligence, ICPRAI 2022, Paris, Fransa, 1 - 03 Haziran 2022, cilt.13363 LNCS, ss.109-120
- IV. **GAN-based Intrinsic Exploration for Sample Efficient Reinforcement Learning**
Kamar D., Üre N. K., Ünal G.
14th International Conference on Agents and Artificial Intelligence (ICAART), ELECTR NETWORK, 3 - 05 Şubat 2022, ss.264-272
- V. **Synthesizing Point Cloud Data Set for Historical Dome Systems**
Gunes M. C., Mertan A., Şahin Y. H., Ünal G., Özkar M.
19th International Conference on Computer-Aided Architectural Design (CAAD) - Design Imperatives - The Future is Now, ELECTR NETWORK, 16 - 18 Temmuz 2021, cilt.1465, ss.538-554
- VI. **Tuning Accuracy-Diversity Trade-off in Neural Network Ensemble via Novel Entropy Loss Function**
Ali M. A., Şahin Y. H., Özgür-Akyüz S., Ünal G., Otar B. C.
13th International Conference on Electrical and Electronics Engineering, ELECO 2021, Virtual, Bursa, Türkiye, 25 - 27 Kasım 2021, ss.365-368
- VII. **Uncertainty-Based Dynamic Graph Neighborhoods for Medical Segmentation**
Demir U., Ozer A., Şahin Y. H., Ünal G.
4th International Workshop on Predictive Intelligence in Medicine, PRIME 2021, held in conjunction with 24th International Conference on Medical Image Computing and Computer Assisted Intervention, MICCAI 2021, Virtual, Online, 01 Ekim 2021, cilt.12928 LNCS, ss.255-265
- VIII. **A New Distributional Ranking Loss With Uncertainty: Illustrated in Relative Depth Estimation**
Mertan A., Şahin Y. H., Duff D. J., Ünal G.
8th International Conference on 3D Vision (3DV), ELECTR NETWORK, 25 - 28 Kasım 2020, ss.1079-1088
- IX. **DESHUFFLEGAN: A SELF-SUPERVISED GAN TO IMPROVE STRUCTURE LEARNING**
Baykal G., Ünal G.
IEEE International Conference on Image Processing (ICIP), ELECTR NETWORK, 25 - 28 Eylül 2020, ss.708-712
- X. **Semantic Segmentation with Extended DeepLabv3 Architecture**
Yurtkulu S. C., ŞAHİN Y. H., ÜNAL G.
Sinyal İşleme ve Uygulamaları Konferansı, Türkiye, 24 - 26 Nisan 2019
- XI. **Supervised Classification of White Matter Fibers Based on Neighborhood Fiber Orientation Distributions Using an Ensemble of Neural Networks**
Ugurlu D., Firat Z., Ture U., Ünal G.
21st International Conference on Medical Image Computing and Computer-Assisted Intervention (MICCAI) / 8th

- Eurographics Workshop on Visual Computing for Biology and Medicine (VCBM) / International Workshop on Computational Diffusion MRI (CDMRI), Granada, Nikaragua, 16 - 21 Eylül 2018, ss.143-154
- XII. **Turkish lira banknotes classification using deep convolutional neural networks**
BAYKAL G., DEMİR U., SHYTI I., ÜNAL G.
2018 26th Signal Processing and Communications Applications Conference (SIU), İzmir, Türkiye, 2 - 05 Mayıs 2018
- XIII. **A convolutional neural networks oriented approach for voxel-based 3D object classification**
Sırma R., Dinar B., ŞAHİN Y. H., ÜNAL G.
2018 26th Signal Processing and Communications Applications Conference (SIU), Izmir, Turkey, Türkiye, 2 - 05 Mayıs 2018
- XIV. **Diffusion MRI Spatial Super-Resolution Using Generative Adversarial Networks**
Albay E., Demir U., Ünal G.
1st International Workshop on PRedictive Intelligence in MEdicine (PRIME), Granada, Nikaragua, 16 Eylül 2018, cilt.11121, ss.155-163
- XV. **A RNN Based Time Series Approach for Forecasting Turkish Electricity Load**
Tokgoz A., Ünal G.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Türkiye, 2 - 05 Mayıs 2018
- XVI. **Generative Adversarial Training for MRA Image Synthesis Using Multi-contrast MRI**
Olut S., Şahin Y. H., Demir U., Ünal G.
1st International Workshop on PRedictive Intelligence in MEdicine (PRIME), Granada, Nikaragua, 16 Eylül 2018, cilt.11121, ss.147-154
- XVII. **Cerebral Vessel Classification with Convolutional Neural Networks**
Şahin Y. H., Ünal G.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Türkiye, 15 - 18 Mayıs 2017
- XVIII. **Classification Of Brain Tissues as Lesion or Healthy By 3D Convolutional Neural Networks**
Aydogdu C. Y., Albay E., Ünal G.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Türkiye, 15 - 18 Mayıs 2017
- XIX. **Inpainting by Deep Autoencoders Using An Advisor Network**
Demir U., Ünal G.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Türkiye, 15 - 18 Mayıs 2017
- XX. **Resolution Enhancement of Tri-Stereo Remote Sensing Images by Super Resolution Methods**
TUNA C., Akoguz A., Ünal G., Sertel E.
Conference on Image and Signal Processing for Remote Sensing XXII, Edinburgh, Saint Helena, 26 - 28 Eylül 2016, cilt.10004
- XXI. **Adaptive Reconstruction for Vessel Preservation in Unenhanced MR Angiography**
İlicak E., Cetin S., SARITAŞ ÇUKUR E. Ü., Ünal G., ÇUKUR T.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Türkiye, 16 - 19 Mayıs 2016, ss.577-580
- XXII. **Shape Deformation Measures for White Matter Fibers**
Gueler R. A., Ugurlu D., Firat Z., Ture U., Ünal G.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Türkiye, 16 - 19 Mayıs 2016, ss.1277-1280
- XXIII. **Manifold learning based IVUS Gating**
İşgüder G. G., Ünal G., Groher M., Navab N., Kalkan A., Değertekin M., Hetterich H., Rieber J.
Medical Imaging and Augmented Reality, Pekin, Çin, 19 - 20 Eylül 2010, ss.139-148
- XXIV. **Anatomical landmark based registration of contrast enhanced T1-weighted MR Images**
Demir A., Ünal G., Karaman K.
Biomedical Image Registration (WBIR), Lübeck, Almanya, 11 - 13 Temmuz 2010, ss.91-103

Desteklenen Projeler

Özkar Kabakçioğlu M., Ünal G., TÜBİTAK Projesi, Tarihi Yapıların Belgelelenmesinde Fotogrametri Verisi Kullanılarak Yapı Bileşenlerinin Modellemesine Yönelik Hesaplama Yöntemler Geliştirilmesi , 2020 - 2023

Üre N. K., Çakır M. A., Öğüdücü Ş., Ünal G., Eryiğit G., Tosun Kühn A., Oktuğ S. F., Kaya T., İnce G., Ovatman T., et al., Yükseköğretim Kurumları Destekli Proje, Türkiye'nin Öncelikli Alanları için Yapay Zeka Teknolojileri Geliştirilmesi için Altyapı Oluşturma ve Ön Bilimsel Çalışmaları Başlatma, 2019 - 2022

Ünal G., TÜBİTAK Projesi, Danışmanlı Öğrenme ile Beyin Beyaz Cevher Yolaklarının Sınıflandırılması, 2018 - 2020

Ünal G., Şahin Y. H., Demir U., Yükseköğretim Kurumları Destekli Proje, Bilgisayarla Görü Problemleri için Derin Üretici Sinir Ağları ile İyileştirilmiş Çözüm Altyapısı Oluşturulması, 2017 - 2019

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