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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, University of Essex, Elektronik Sistem Müh., Birleşik Krallık 1996 - 1999

Yüksek Lisans, University of Essex, Elektronik Sistem Müh., Birleşik Krallık 1995 - 1996

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik Ve Elektronik Mühendisliği Bölümü, Türkiye 1991 - 1995

Yabancı Diller

Almanca, C1 İleri

İngilizce, C1 İleri

Akademik Unvanlar / Görevler

Prof. Dr., Kocaeli Üniversitesi, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 2008 - Devam Ediyor

Doç. Dr., Kocaeli Üniversitesi, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 2002 - 2008

Yrd. Doç. Dr., Kocaeli Üniversitesi, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 2001 - 2002

Yönetilen Tezler

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- II. **Full depth CNN classifier for handwritten and license plate characters recognition**
Salemdeeb M., ERTÜRK S.
PEERJ COMPUTER SCIENCE, cilt.7, ss.1-22, 2021 (SCI-Expanded)
- III. **Using Programmable Josephson Voltage Standard for Static and Dynamic Gain Characterization of Integrating ADC**
COŞKUN ÖZTÜRK T., ERTÜRK S., TANGEL A., MEHEDİN A.
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- IV. **Seizure Prediction in Scalp EEG Using 3D Convolutional Neural Networks With an Image-Based Approach**
Ozcan A. R., ERTÜRK S.
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- V. **Are RNGs Achilles' Heel of RFID Security and Privacy Protocols?**
ARSLAN A., KARDAŞ S., ALDIRMAZ ÇOLAK S., ERTÜRK S.
Wireless Personal Communications, ss.1-21, 2018 (SCI-Expanded)
- VI. **Clustering Through Hybrid Network Architecture With Support Vectors**
Ergul E., Arica N., Ahuja N., ERTÜRK S.
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- VII. **AUTOMATED CO-REGISTRATION OF SATELLITE IMAGES THROUGH LUMINANCE TRANSFORMATION**
Gercek D., Çeşmeci D., Güllü M. K., Ertürk A., Ertürk S.
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- VIII. **Ground-Based Panoramic Stereo Hyperspectral Imaging System With Multiband Stereo Matching**
KARACA A. C., ERTÜRK A., GÜLLÜ M. K., ERTÜRK S.
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- IX. **Spatial Resolution Enhancement of Hyperspectral Images Using Unmixing and Binary Particle Swarm Optimization**
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- X. **A High-Dynamic-Range-Based Approach for the Display of Hyperspectral Images**
ERTÜRK S., Suer S., Koc H.
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, cilt.11, sa.11, ss.2001-2004, 2014 (SCI-Expanded)
- XI. **Endmember Extraction Guided by Anomalies and Homogeneous Regions for Hyperspectral Images**
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- XII. **Region of Interest Extraction in Infrared Images Using One-Bit Transform**
Erturk S.
IEEE SIGNAL PROCESSING LETTERS, cilt.20, sa.10, ss.952-955, 2013 (SCI-Expanded)
- XIII. **Hyperspectral image classification using empirical mode decomposition with spectral gradient enhancement**
ERTÜRK A., GÜLLÜ M. K., ERTÜRK S.
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- XIV. **Visual enhancement of underwater images using Empirical Mode Decomposition**
Celebi A., ERTÜRK S.
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- XV. **The effect of memantine in harmaline-induced tremor and neurodegeneration**
İşeri P., Karson A., Gullu K. M., Akman O., Köktürk S., Yardımoğlu M., Ertürk S., Ateş N.
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- XVI. **Segmentation of Hyperspectral Images via Subtractive Clustering and Cluster Validation Using One-Class Support Vector Machines**
BİLGİN G., ERTÜRK S., YILDIRIM T.
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- XVII. **Hyperspectral image classification using denoising of intrinsic mode functions**
Demir B., ERTÜRK S., GÜLLÜ M. K.
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- XVIII. **Empirical Mode Decomposition of Hyperspectral Images for Support Vector Machine Classification**
Demir B., ERTÜRK S.
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- XIX. **Bit Plane Matching Based Variable Block Size Motion Estimation Method and Its Hardware Architecture**
ÇELEBİ A., Lee H., Ertuerk S.
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- XX. **Optimal filtering of polyphase-downsampling-based multiple description coded video**
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- XXI. **Clustering-Based Extraction of Border Training Patterns for Accurate SVM Classification of Hyperspectral Images**
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- XXII. **Truncated Gray-Coded Bit-Plane Matching Based Motion Estimation and its Hardware Architecture**
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- XXIII. **Efficient Hardware Implementations of Low Bit Depth Motion Estimation Algorithms**
ÇELEBİ A., URHAN O., Hamzaoglu I., ERTÜRK S.
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- XXIV. **Two-Bit Transform Based Block Motion Estimation Using Second Derivatives**
Kim N., Ertuerk S., Lee H.
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- XXV. **A Low-Complexity Approach for the Color Display of Hyperspectral Remote-Sensing Images Using One-Bit-Transform-Based Band Selection**
Demir B., ÇELEBİ A., Ertuerk S.
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- XXVI. **An All Binary Sub-Pixel Motion Estimation Approach and its Hardware Architecture**
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- XXVII. **Unsupervised Classification of Hyperspectral-Image Data Using Fuzzy Approaches That Spatially Exploit Membership Relations**
Bilgin G., ERTÜRK S., Yildirim T.
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- XXVIII. **One-dimensional processing for efficient optimal post-process/in-loop filtering in video coding**
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- XXIX. **Downsampling-based multiple description image coding using optimal filtering**
YAPICI Y., DEMİR B., ERTUERK S., URHAN O.
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- XXX. **Parameter embedding mode and optimal post-process filtering for improved WDCT image compression**
URHAN O., ERTUERK S.
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- XXXI. **Improved block motion estimation using block frequency warping**
AKBULUT O., URHAN O., ERTUERK S.
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- XXXII. **Phase correlation based redundancy removal in feature weighting band selection for hyperspectral images**
DEMİR B., ERTÜRK S.
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- XXXIII. **Blotch detection and removal for archive film restoration**
GÜLLÜ M. K., URHAN O., ERTÜRK S.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, cilt.62, sa.7, ss.534-543, 2008 (SCI-Expanded)
- XXXIV. **Improved classification and segmentation of hyperspectral images using spectral warping**
DEMİR B., Ertuerk S.
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- XXXV. **Optimal Post-Process/In-Loop filtering for improved video compression performance**
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- XXXVII. **Block motion estimation using adaptive modified two-bit transform**
Demir B., Ertuerk S.
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- XXXVIII. **Low complexity video encoding with one-bit transform based network-driven motion estimation**
Oh H., Erturk S., Chang T.
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- XXXIX. **Constrained one-bit transform for low complexity block motion estimation**
Urhan O., Ertuerk S.
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- XL. **Optimization of Nd:YAG Laser Welding of Magnesium**
DEMİR A., AKMAN E., CANEL T., Ertuerk S., KAYA A. A., Kenar N., SINMAZÇELİK T., URHAN O.
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- XLI. **A new perspective to block motion estimation for video compression: High-frequency component matching**
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- XLII. **Multiplication-free one-bit transform for low-complexity block-based motion estimation**
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- XLIII. **Shot-cut detection for B&W archive films using best-fitting kernel**
Urhan O., Gullu M. K., Erturk S.
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- XLIV. **Warped discrete cosine transform-based low bit-rate block coding using image downsampling**
Erturk S.
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- XLV. **Single sub-image matching based low complexity motion estimation for digital image stabilization using constrained one-bit transform**
Urhan O., Erturk S.

- IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, cilt.52, sa.4, ss.1275-1279, 2006 (SCI-Expanded)
- XLVI. **Unsupervised segmentation of hyperspectral images using modified phase correlation**
Ertuerk A., Ertuerk S.
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- XLVII. **A computer vision-based fast approach to drilling tool condition monitoring**
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- XLIX. **Nonintrusive iris image extraction for iris recognition-based biometric identification**
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- L. **Fast digital image stabilization using one bit transform based sub-image motion estimation**
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- LI. **Two-bit transform for binary block motion estimation**
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- LII. **Membership function adaptive fuzzy filter for image sequence stabilization**
GÜLLÜ M. K., ERTÜRK S.
IEEE Transactions on Consumer Electronics, cilt.50, sa.1, ss.1-7, 2004 (SCI-Expanded)
- LIII. **Image sequence stabilization using membership selective fuzzy filtering**
GÜLLÜ M. K., ERTÜRK S.
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- LIV. **Digital image stabilization with sub-image phase correlation based global motion estimation**
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IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, cilt.49, sa.4, ss.1320-1325, 2003 (SCI-Expanded)
- LV. **Translation, rotation and scale stabilisation of image sequences**
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- LVI. **Fuzzy image sequence stabilisation**
GÜLLÜ M. K., ERTÜRK S.
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- LVII. **Image sequence stabilisation using fuzzy adaptive Kalman filtering**
GÜLLÜ M. K., YAMAN E., ERTÜRK S.
Electronics Letters, cilt.39, sa.5, ss.429-431, 2003 (SCI-Expanded)
- LVIII. **Real-time digital image stabilization using Kalman filters**
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- LIX. **Image sequence stabilisation based on Kalman filtering of frame positions**
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- LX. **Image sequence stabilisation based on DFT filtering**
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Diğer Dergilerde Yayınlanan Makaleler

- I. **Multi-national and Multi-language License Plate Detection using Convolutional Neural Networks**
Salemdeeb M., ERTÜRK S.
ENGINEERING TECHNOLOGY & APPLIED SCIENCE RESEARCH, cilt.10, sa.4, ss.5979-5985, 2020 (ESCI)
- II. **Establishing Programmable Josephson Voltage Standard and Maintaining Its Quantum Accuracy**
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- III. **Kamuflej Tespiti için Hiperspektral Görüntüleme**
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- IV. **Hiperspektral Görüntüleme ve Görüntü İşlemenin Bugünü Yakın Geleceği ve Mevcut Araştırma Eğilimleri**
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- V. **Accuracy Improvement and Evaluation Measures for Registration of Multisensor Remote Sensing Imagery**
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- VI. **Progresses on the Theoretical and Experimental Studies in Laser Technologies Research and Application Center In Kocaeli**
AKMAN E., ATALAY B., CANDAN L., CANEL T., DEMİR A., DEMİR P., ERTÜRK S., GENÇ ÖZTOPRAK B., KAÇAR E., KENAR N., et al.
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Kitap & Kitap Bölümleri

- I. **Sayısal Haberleşme**
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Birsen Yayınevi, 2016
- II. **Sayısal İşaret İşleme**
ERTÜRK S.
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- III. **Video Segmentation with Block Based Change Detection Using Numerous Preceding Image Frames**
URHAN O., ERTÜRK S.
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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **A Different Approach To Determining The Quality Level Of Electrical Resistance Spot Welds In The Industrial Serial Production**
Otmanbölük H., Ertürk S.
6th International Congress on Human-Computer Interaction, Optimization and Robotic Applications, HORA 2024, İstanbul, Türkiye, 23 - 25 Mayıs 2024
- II. **Measurement of Arbitrary Waveforms at Low Frequencies**
COŞKUN ÖZTÜRK T., ERTÜRK S., TANGEL A., MEHEDİN A.
Conference on Precision Electromagnetic Measurements (CPEM), Colorado, Amerika Birleşik Devletleri, 24 Ağustos 2020

- III. **KARARLILIĞI YÜKSEK YARI-İLETKEN DAC'IN KUANTUM VOLTMETRE İLE KALİBRASYONU**
COŞKUN ÖZTÜRK T., ERTÜRK S., TANGEL A., MEHEDİN A.
Ölçümbilim Sempozyumu ve Sergisi, Türkiye, 20 Kasım - 22 Aralık 2019
- IV. **Graph Regularized L1/2-Sparsity Constrained Non-Negative Matrix Factorization for Hyperspectral and Multispectral Image Fusion**
Kahraman S., Ertürk A., Ertürk S.
9th Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing, WHISPERS 2018, Amsterdam, Hollanda, 23 - 26 Eylül 2018
- V. **Towards Wideband Voltage Scaling to Quantum Standards at the Accuracy of the Stability**
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- VI. **Superpixel Based Spectral Classification of Hyperspectral Images in Different Spaces**
Sakaci S. A., ERTÜRK S.
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- VII. **GRAPH REGULARIZED L-1/2-SPARSITY CONSTRAINED NON-NEGATIVE MATRIX FACTORIZATION FOR HYPERSPECTRAL AND MULTISPECTRAL IMAGE FUSION**
Kahraman S., ERTÜRK A., ERTÜRK S.
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- VIII. **Fuzzy Fusion of Change Vector Analysis and Spectral Angle Mapper for Hyperspectral Change Detection**
ERTÜRK S.
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- IX. **BLOCK-BASED AND SEGMENTATION-BASED APPROACHES FOR COMPONENT SUBSTITUTION BASED HYPERSPECTRAL PANSHARPENING**
Kahraman S., Yesilyurt G., Ertürk A., Ertürk S.
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- X. **ANOMALY PRESERVING CONTENT-AWARE HYPERSPECTRAL IMAGE SIZE REDUCTION**
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- XI. **Evaluation of Manual and Automatic Calibration Methods for Digital Tachographs**
ERTÜRK S., Eyigel L., Çelik C., Şahinoğlu M., Ay S., Kaya Y., Kaya H.
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- XII. **Metrological Measurements Using Programmable Josephson Voltage Standard**
ÖZTÜRK T. C., ERTÜRK S., TANGEL A., ARİFOVİÇ M., TURHAN S.
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- XIII. **Pseudocoloring of ultrasound images Ultrason Görüntülerinin Sözde Renklendirilmesi**
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- XIV. **Pseudocoloring of Ultrasound Images**
Konyar M. Z., ERTÜRK S.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Türkiye, 15 - 18 Mayıs 2017
- XV. **Metric and Transform Performance Analysis for Hyperspectral Superpixel Segmentation**
Yesilyurt G. N., ERTÜRK A., ERTÜRK S.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Türkiye, 15 - 18 Mayıs 2017

- XVI. SEAM CARVING FOR HYPERSPECTRAL IMAGE SIZE REDUCTION AND UNMIXING**
ERTÜRK A., ERTÜRK S.
IEEE International Geoscience & Remote Sensing Symposium, Texas, Amerika Birleşik Devletleri, 23 - 28 Temmuz 2017, ss.1752-1755
- XVII. Epileptic Seizure Prediction with Recurrent Convolutional Neural Networks**
Ozcan A. R., ERTÜRK S.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Türkiye, 15 - 18 Mayıs 2017
- XVIII. Arttırılmış Gerçeklik Uygulamaları için 360 Derece Takip Edilebilen Bir Etiket**
Özüağ E., ERTÜRK S.
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- XIX. UNMIXING WITH SLIC SUPERPIXELS FOR HYPERSPECTRAL CHANGE DETECTION**
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ERTÜRK S., Yükseköğretim Kurumları Destekli Proje, Sualtı Görüntülerinin İşlenmesi, 2012 - 2013

Metrikler

Yayın: 239

Atf (WoS): 1850

Atf (Scopus): 2555

H-İndeks (WoS): 24

H-İndeks (Scopus): 28

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