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Education Information

Doctorate, University of Essex, Elektronik Sistem Müh., United Kingdom 1996 - 1999

Postgraduate, University of Essex, Elektronik Sistem Müh., United Kingdom 1995 - 1996

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 1991 - 1995

Foreign Languages

German, C1 Advanced

English, C1 Advanced

Academic Titles / Tasks

Professor, Kocaeli University, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 2008 - Continues
Associate Professor, Kocaeli University, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 2002 - 2008

Assistant Professor, Kocaeli University, Mühendislik Fakültesi, Elektronik Ve Haberleşme Mühendisliği Bölümü, 2001 - 2002

Advising Theses

ERTÜRK S., Hiperspektral görüntülerin eğitimciyiz bölütlenmesi, Doctorate, G.BİLGİN(Student), 2009

ERTÜRK S., Kod bölüşümlü çoklu erişim sistemlerinde düzensiz frekans ve dik kod atlaması, Postgraduate, YAKIN(Student), 2004

ERTÜRK S., Uzay zaman frekans kodlamalı dik frekans bölüşümlü çoğullama sistemi, Postgraduate, L.AKSOY(Student), 2004

ERTÜRK S., CDMA sistemleri için bulanık mantığa dayalı RLS uyarlamalı alıcı yapısı, Postgraduate, İ.ŞİMŞEK(Student), 2004

Published journal articles indexed by SCI, SSCI, and AHCI

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WIRELESS PERSONAL COMMUNICATIONS, vol.120, no.4, pp.2653-2691, 2021 (SCI-Expanded)
- II. **Full depth CNN classifier for handwritten and license plate characters recognition**
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- III. **Using Programmable Josephson Voltage Standard for Static and Dynamic Gain Characterization of Integrating ADC**
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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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- VI. **Clustering Through Hybrid Network Architecture With Support Vectors**
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IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS, vol.28, no.6, pp.1373-1385, 2017 (SCI-Expanded)
- 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.
IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING, vol.9, no.9, pp.3926-3940, 2016 (SCI-Expanded)
- IX. **Spatial Resolution Enhancement of Hyperspectral Images Using Unmixing and Binary Particle Swarm Optimization**
ERTÜRK A., GÜLLÜ M. K., ÇEŞMECİ D., Gercek D., ERTÜRK S.
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- X. **A High-Dynamic-Range-Based Approach for the Display of Hyperspectral Images**
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- 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.
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- XIII. **Hyperspectral image classification using empirical mode decomposition with spectral gradient enhancement**
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- XIV. **Visual enhancement of underwater images using Empirical Mode Decomposition**
Celebi A., ERTÜRK S.
EXPERT SYSTEMS WITH APPLICATIONS, vol.39, no.1, pp.800-805, 2012 (SCI-Expanded)
- XV. **The effect of memantine in harmaline-induced tremor and neurodegeneration**
İşeri P., Karson A., Gullu K. M., Akman O., Köktürk S., Yardımcıoğlu 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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Demir B., ERTÜRK S.
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ÇELEBİ A., Lee H., Ertuerk S.
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- XX. **Optimal filtering of polyphase-downsampling-based multiple description coded video**
Ates C., URHAN O., ERTÜRK S.
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- XXI. **Clustering-Based Extraction of Border Training Patterns for Accurate SVM Classification of Hyperspectral Images**
Demir B., ERTÜRK S.
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, vol.6, no.4, pp.840-844, 2009 (SCI-Expanded)
- XXII. **Truncated Gray-Coded Bit-Plane Matching Based Motion Estimation and its Hardware Architecture**
ÇELEBİ A., AKBULUT O., URHAN O., Ertuerk S.
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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**
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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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- XXX. **Parameter embedding mode and optimal post-process filtering for improved WDCT image compression**
URHAN O., ERTUERK S.

- IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, vol.18, no.4, pp.528-532, 2008 (SCI-Expanded)
- 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, vol.62, no.7, pp.534-543, 2008 (SCI-Expanded)
- XXXIV. **Improved classification and segmentation of hyperspectral images using spectral warping**
DEMİR B., Ertuerk S.
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.29, no.12, pp.3657-3663, 2008 (SCI-Expanded)
- XXXV. **Optimal Post-Process/In-Loop filtering for improved video compression performance**
KIM D., OH H., URHAN O., ERTÜRK S., CHANG T.
IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol.53, no.4, pp.1687-1693, 2007 (SCI-Expanded)
- XXXVI. **Hyperspectral image classification using relevance vector machines**
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- XXXVII. **Block motion estimation using adaptive modified two-bit transform**
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- XL. **Optimization of Nd:YAG Laser Welding of Magnesium**
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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**
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- XLIV. **Warped discrete cosine transform-based low bit-rate block coding using image downsampling**
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- XLV. **Single sub-image matching based low complexity motion estimation for digital image stabilization using constrained one-bit transform**

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- XLVI. **Unsupervised segmentation of hyperspectral images using modified phase correlation**
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- XLVII. **A computer vision-based fast approach to drilling tool condition monitoring**
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- XLVIII. **Modified phase-correlation based robust hard-cut detection with application to archive film**
Urhan O., Gullu M. K., Erturk S.
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- XLIX. **Nonintrusive iris image extraction for iris recognition-based biometric identification**
Erturk S.
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- L. **Fast digital image stabilization using one bit transform based sub-image motion estimation**
Yeni A., Erturk S.
IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol.51, no.3, pp.917-921, 2005 (SCI-Expanded)
- LI. **Two-bit transform for binary block motion estimation**
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- LII. **Membership function adaptive fuzzy filter for image sequence stabilization**
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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, vol.49, no.4, pp.1320-1325, 2003 (SCI-Expanded)
- LV. **Translation, rotation and scale stabilisation of image sequences**
Erturk S.
ELECTRONICS LETTERS, vol.39, no.17, pp.1245-1246, 2003 (SCI-Expanded)
- LVI. **Fuzzy image sequence stabilisation**
GÜLLÜ M. K., ERTÜRK S.
Electronics Letters, vol.39, no.16, pp.1170-1172, 2003 (SCI-Expanded)
- LVII. **Image sequence stabilisation using fuzzy adaptive Kalman filtering**
GÜLLÜ M. K., YAMAN E., ERTÜRK S.
Electronics Letters, vol.39, no.5, pp.429-431, 2003 (SCI-Expanded)
- LVIII. **Real-time digital image stabilization using Kalman filters**
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Articles Published in Other Journals

- I. **Multi-national and Multi-language License Plate Detection using Convolutional Neural Networks**
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- II. **Establishing Programmable Josephson Voltage Standard and Maintaining Its Quantum Accuracy**
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- III. **Kamufraj 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**
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Books & Book Chapters

- I. **Sayısal Haberleşme**
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- II. **Sayısal İşaret İşleme**
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- III. **Video Segmentation with Block Based Change Detection Using Numerous Preceding Image Frames**
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Refereed Congress / Symposium Publications in Proceedings

- 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, Turkey, 23 - 25 May 2024
- II. **Measurement of Arbitrary Waveforms at Low Frequencies**
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- III. **KARARLILIĞI YÜKSEK YARI-İLETKEN DAC'IN KUANTUM VOLTMETRE İLE KALİBRASYONU**
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- IV. **Graph Regularized L1/2-Sparsity Constrained Non-Negative Matrix Factorization for Hyperspectral and Multispectral Image Fusion**
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- 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**
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- IX. **BLOCK-BASED AND SEGMENTATION-BASED APPROACHES FOR COMPONENT SUBSTITUTION BASED HYPERSPECTRAL PANSHARPENING**
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- XIV. **Pseudocoloring of Ultrasound Images**
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- XV. **Metric and Transform Performance Analysis for Hyperspectral Superpixel Segmentation**
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- XVI. **SEAM CARVING FOR HYPERSPECTRAL IMAGE SIZE REDUCTION AND UNMIXING**

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- XVII. **Epileptic Seizure Prediction with Recurrent Convolutional Neural Networks**
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- XVIII. **Arttırılmış Gerçeklik Uygulamaları için 360 Derece Takip Edilebilen Bir Etiket**
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- XX. **Effect Of Feature Extraction And Classification Method On Hyperspectral Image Classification Accuracy**
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- XXI. **Digital Radar Signal Simulator Design for Combat Management System Integration Into Warships**
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Turan S., Mohammed E. H., ERTÜRK S.
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- XXIII. **A 360 Degree Trackable Marker for Augmented Reality Applications**
Ozuag E., ERTÜRK S.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.2197-2200
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