

Prof.Dr. SARP ERTÜRK

Kişisel Bilgiler

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Eğitim Bilgileri

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

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

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik Ve Elektronik Mühendisliği Bölümü, Türkiye 1990 - 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

ERTÜRK S., Hiperspektral görüntülerin eğitimcişiz bölütlenmesi, Doktora, G.BİLGİN(Öğrenci), 2009

ERTÜRK S., Uzay zaman frekans kodlamalı dik frekans bölüşümlü çoğullama sistemi, Yüksek Lisans, L.AKSOY(Öğrenci), 2004

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ERTÜRK S., CDMA sistemleri için bulanık mantığa dayalı RLS uyarlamalı alıcı yapısı, Yüksek Lisans, İ.ŞİMŞEK(Öğrenci), 2004

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. A Secure and Privacy Friendly ECC Based RFID Authentication Protocol for Practical Applications**
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- II. Full depth CNN classifier for handwritten and license plate characters recognition**
Saleemdeeb M., ERTÜRK S.
PEERJ COMPUTER SCIENCE, cilt.7, ss.1-22, 2021 (SCI İndekslerine Giren Dergi)
- III. Using Programmable Josephson Voltage Standard for Static and Dynamic Gain Characterization of Integrating ADC**

COŞKUN ÖZTÜRK T., ERTÜRK S., TANGEL A., MEHEDİN A.

IEEE Transactions On Instrumentation And Measurement, cilt.69, sa.7, ss.4425-4435, 2020 (SCI İndekslerine Giren Dergi)

- IV. **Seizure Prediction in Scalp EEG Using 3D Convolutional Neural Networks With an Image-Based Approach**
Ozcan A. R. , ERTÜRK S.
IEEE TRANSACTIONS ON NEURAL SYSTEMS AND REHABILITATION ENGINEERING, cilt.27, sa.11, ss.2284-2293, 2019 (SCI İndekslerine Giren Dergi)
- 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 İndekslerine Giren Dergi)
- VI. **Clustering Through Hybrid Network Architecture With Support Vectors**
Ergul E., Arica N., Ahuja N., ERTÜRK S.
IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS, cilt.28, sa.6, ss.1373-1385, 2017 (SCI İndekslerine Giren Dergi)
- VII. **AUTOMATED CO-REGISTRATION OF SATELLITE IMAGES THROUGH LUMINANCE TRANSFORMATION**
Gercek D., Çeşmeci D., Güllü M. K. , Ertürk A., Ertürk S.
PHOTOGRAMMETRIC RECORD, cilt.31, ss.407-427, 2016 (SCI İndekslerine Giren Dergi)
- 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, cilt.9, sa.9, ss.3926-3940, 2016 (SCI İndekslerine Giren Dergi)
- 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.
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, cilt.11, sa.12, ss.2100-2104, 2014 (SCI İndekslerine Giren Dergi)
- 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 İndekslerine Giren Dergi)
- XI. **Endmember Extraction Guided by Anomalies and Homogeneous Regions for Hyperspectral Images**
ERTÜRK A., ÇEŞMECİ D., GÜLLÜ M. K. , Gercek D., ERTÜRK S.
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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 İndekslerine Giren Dergi)
- 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.
EXPERT SYSTEMS WITH APPLICATIONS, cilt.39, sa.1, ss.800-805, 2012 (SCI İndekslerine Giren Dergi)
- 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.
NEUROPHARMACOLOGY, cilt.61, ss.715-723, 2011 (SCI İndekslerine Giren Dergi)
- XVI. **Segmentation of Hyperspectral Images via Subtractive Clustering and Cluster Validation Using One-Class Support Vector Machines**

BİLGİN G., ERTÜRK S., YILDIRIM T.

IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, cilt.49, sa.8, ss.2936-2944, 2011 (SCI İndekslerine Giren Dergi)

- XVII. **Hyperspectral image classification using denoising of intrinsic mode functions**
Demir B., ERTÜRK S., GÜLLÜ M. K.
IEEE Geoscience and Remote Sensing Letters, cilt.8, sa.2, ss.220-224, 2011 (SCI İndekslerine Giren Dergi)
- XVIII. **Empirical Mode Decomposition of Hyperspectral Images for Support Vector Machine Classification**
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IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, cilt.48, sa.11, ss.4071-4084, 2010 (SCI İndekslerine Giren Dergi)
- 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**
Ates C., URHAN O., ERTÜRK S.
JOURNAL OF ELECTRONIC IMAGING, cilt.18, sa.4, 2009 (SCI İndekslerine Giren Dergi)
- XXI. **Clustering-Based Extraction of Border Training Patterns for Accurate SVM Classification of Hyperspectral Images**
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IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, cilt.6, sa.4, ss.840-844, 2009 (SCI İndekslerine Giren Dergi)
- XXII. **Truncated Gray-Coded Bit-Plane Matching Based Motion Estimation and its Hardware Architecture**
ÇELEBİ A., AKBULUT O., URHAN O., Ertuerk S.
IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, cilt.55, sa.3, ss.1530-1536, 2009 (SCI İndekslerine Giren Dergi)
- 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**
ÇELEBİ A., AKBULUT O., URHAN O., Hamzaoglu I., ERTUERK S.
IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, cilt.54, sa.4, ss.1928-1937, 2008 (SCI İndekslerine Giren Dergi)
- XXVII. **Unsupervised Classification of Hyperspectral-Image Data Using Fuzzy Approaches That Spatially Exploit Membership Relations**
Bilgin G., ERTÜRK S., Yildirim T.
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, cilt.5, sa.4, ss.673-677, 2008 (SCI İndekslerine Giren Dergi)
- XXVIII. **One-dimensional processing for efficient optimal post-process/in-loop filtering in video coding**
AKBULUT O., URHAN O., ERTÜRK S., CHANG T.
IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, cilt.54, sa.3, ss.1346-1354, 2008 (SCI İndekslerine Giren Dergi)
- XXIX. **Downsampling-based multiple description image coding using optimal filtering**
YAPICI Y., DEMİR B., ERTUERK S., URHAN O.

- JOURNAL OF ELECTRONIC IMAGING, cilt.17, sa.3, 2008 (SCI İndekslerine Giren Dergi)
- 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, cilt.18, sa.4, ss.528-532, 2008 (SCI İndekslerine Giren Dergi)
- 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 İndekslerine Giren Dergi)
- XXXIV. **Improved classification and segmentation of hyperspectral images using spectral warping**
DEMİR B., Ertuerk S.
INTERNATIONAL JOURNAL OF REMOTE SENSING, cilt.29, sa.12, ss.3657-3663, 2008 (SCI İndekslerine Giren Dergi)
- 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, cilt.53, sa.4, ss.1687-1693, 2007 (SCI İndekslerine Giren Dergi)
- XXXVI. **Hyperspectral image classification using relevance vector machines**
Demir B., Erturk S.
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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**
Ertuerk S.
IEEE SIGNAL PROCESSING LETTERS, cilt.14, sa.2, ss.113-116, 2007 (SCI İndekslerine Giren Dergi)
- XLII. **Multiplication-free one-bit transform for low-complexity block-based motion estimation**
Ertuerk S.
IEEE SIGNAL PROCESSING LETTERS, cilt.14, sa.2, ss.109-112, 2007 (SCI İndekslerine Giren Dergi)
- 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 İndekslerine Giren Dergi)
- XLVI. **Unsupervised segmentation of hyperspectral images using modified phase correlation**
Ertuerk A., Ertuerk S.
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, cilt.3, sa.4, ss.527-531, 2006 (SCI İndekslerine Giren Dergi)
- XLVII. **A computer vision-based fast approach to drilling tool condition monitoring**
ATLI A. V. , Urhan O., ERTUERK S., SOENMEZ M.
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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.
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, cilt.16, sa.6, ss.753-770, 2006 (SCI İndekslerine Giren Dergi)
- 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.
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- LI. **Two-bit transform for binary block motion estimation**
Erturk A., Erturk S.
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- LII. **Membership function adaptive fuzzy filter for image sequence stabilization**
GÜLLÜ M. K. , ERTÜRK S.
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- LIII. **Image sequence stabilization using membership selective fuzzy filtering**
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- LIV. **Digital image stabilization with sub-image phase correlation based global motion estimation**
Erturk S.
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- LV. **Translation, rotation and scale stabilisation of image sequences**
Erturk S.
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- LVI. **Fuzzy image sequence stabilisation**
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- LVII. **Image sequence stabilisation using fuzzy adaptive Kalman filtering**
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Electronics Letters, cilt.39, sa.5, ss.429-431, 2003 (SCI İndekslerine Giren Dergi)
- LVIII. **Real-time digital image stabilization using Kalman filters**
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Erturk S., Dennis T.

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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 İndekslerine Giren Dergi)

II. Establishing Programmable Josephson Voltage Standard and Maintaining Its Quantum Accuracy

COŞKUN ÖZTÜRK T., ERTÜRK S., TANGEL A., GEDİK A., YOĞUN M., CELEP M.

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III. Kamufraj Tespiti için Hiperspektral Görüntüleme

KARACA A. C. , ERTÜRK A., GÜLLÜ M. K. , ERTÜRK S.

EMO bilimsel dergi (SAVTEK özel sayısı), cilt.3, ss.35-39, 2013 (Diğer Kurumların Hakemli Dergileri)

IV. Hiperspektral Görüntüleme ve Görüntü İşlemenin Bugünü Yakın Geleceği ve Mevcut Araştırma Eğilimleri

Gerçek D., Çeşmeci D., Güllü M. K. , Ertürk A., Ertürk S.

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V. Accuracy Improvement and Evaluation Measures for Registration of Multisensor Remote Sensing Imagery

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Journal of Geodesy and GeoInformation (JGG), cilt.1, ss.97-103, 2012 (Diğer Kurumların Hakemli Dergileri)

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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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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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **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
- II. **KARARLILIĞI YÜKSEK YARI-İLETKEN DAC'IN KUANTUM VOLTMETRE İLE KALİBRASYONU**
COŞKUN ÖZTÜRK T., ERTÜRK S., TANGEL A., MEHEDİN A.
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- III. **Graph Regularized L1/2-Sparsity Constrained Non-Negative Matrix Factorization for Hyperspectral and Multispectral Image Fusion**
Kahraman S., ERTÜRK A., ERTÜRK S.
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- IV. **Towards Wideband Voltage Scaling to Quantum Standards at the Accuracy of the Stability**
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- V. **BLOCK-BASED AND SEGMENTATION-BASED APPROACHES FOR COMPONENT SUBSTITUTION BASED HYPERSPECTRAL PANSHARPENING**
Kahraman S., Yesilyurt G., ERTÜRK A., ERTÜRK S.
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- VI. **GRAPH REGULARIZED L-1/2-SPARSITY CONSTRAINED NON-NEGATIVE MATRIX FACTORIZATION FOR HYPERSPECTRAL AND MULTISPECTRAL IMAGE FUSION**
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- VII. **Fuzzy Fusion of Change Vector Analysis and Spectral Angle Mapper for Hyperspectral Change Detection**
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- VIII. **ANOMALY PRESERVING CONTENT-AWARE HYPERSPECTRAL IMAGE SIZE REDUCTION**
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- IX. **Superpixel Based Spectral Classification of Hyperspectral Images in Different Spaces**
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- X. **Evaluation of Manual and Automatic Calibration Methods for Digital Tachographs**
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- XI. **Metrological Measurements Using Programmable Josephson Voltage Standard**
ÖZTÜRK T. C. , ERTÜRK S., TANGEL A., ARİFOVIÇ M., TURHAN S.
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- XII. **Pseudocoloring of ultrasound images Ultrason Görüntülerinin Sözde Renklendirilmesi**
KONYAR M. Z. , ERTÜRK S.
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- XIII. **Pseudocoloring of Ultrasound Images**
Konyarlı M. Z. , ERTÜRK S.
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- XIV. **Epileptic Seizure Prediction with Recurrent Convolutional Neural Networks**
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