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Education Information

Doctorate, Georgia Institute of Technology, United States Of America 1999 - 2003

Undergraduate, Ihsan Dogramaci Bilkent University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1994 - 1999

Research Areas

Computer Vision, Artificial Intelligence, Computer Learning and Pattern Recognition

Academic Titles / Tasks

Professor, Istanbul Medipol University, Mühendislik ve Doğa Bilimleri Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2016 - Continues

Associate Professor, Istanbul Medipol University, Mühendislik ve Doğa Bilimleri Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2014 - 2016

Associate Professor, Louisiana State University and Agricultural and Mechanical College, 2009 - 2014

Assistant Professor, Louisiana State University and Agricultural and Mechanical College, 2003 - 2009

Academic and Administrative Experience

Istanbul Medipol University, 2014 - Continues

Advising Theses

Mehmet K., Bahadır Kürşat G., DERİN ÖĞRENME TEKNİKLERİ KULLANARAK PARMAK, EL VE TITREME VERİLERİYLE PARKİNSON HASTALIĞININ SINIFLANDIRILMASI, Postgraduate, B.GÜL(Student), 2023

Bahadır Kürşat G., A comprehensive survey on small object detection, Postgraduate, M.AHMET(Student), 2021

Bahadır Kürşat G., Deep learning based prediction of path loss values and distributions from satellite images, Postgraduate, A.MOHAMED(Student), 2021

Bahadır Kürşat G., Path loss prediction from heightmap using deep learning, Postgraduate, M.BAL(Student), 2021

Bahadır Kürşat G., Altitude optimization of UAVS serving as base stations using deep learning, Postgraduate, I.SHOER(Student), 2020

Bahadır Kürşat G., Dynamic range enhancement in light field imaging systems, Postgraduate, A.WAHAB(Student), 2019

Bahadır Kürşat G., Image enhancement through new techniques in computational photography, Doctorate, M.ZESHAN(Student), 2019

Bahadır Kürşat G., Super resolution of light fields using convolutional neural network, Postgraduate, M.SHAHZEB(Student), 2018

Bahadır Kürşat G., Extending light field camera capabilities, Postgraduate, M.UMAIR(Student), 2017

Bahadır Kürşat G., Extracting sub-exposure images from a single capture through fourier-based optical modulation, Postgraduate, S.REZ(Student), 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Deep learning-based blind image super-resolution with iterative kernel reconstruction and noise estimation**
Ates H. F., Yildirim S., GÜNTÜRK B. K.
Computer Vision and Image Understanding, vol.233, 2023 (SCI-Expanded)
- II. **HMRN: heat map regression network to detect and track small objects in wide-area motion imagery**
Ates H. F., Siddique A., Gunturk B. K.
SIGNAL IMAGE AND VIDEO PROCESSING, vol.17, no.1, pp.39-45, 2023 (SCI-Expanded)
- III. **Light field extraction from a conventional camera**
Alam M. Z., GÜNTÜRK B. K.
Signal Processing: Image Communication, vol.109, 2022 (SCI-Expanded)
- IV. **Regression of Large-Scale Path Loss Parameters Using Deep Neural Networks**
Bal M., Marey A., Ates H. F., Baykas T., GÜNTÜRK B. K.
IEEE Antennas and Wireless Propagation Letters, vol.21, no.8, pp.1562-1566, 2022 (SCI-Expanded)
- V. **PL-GAN: Path Loss Prediction Using Generative Adversarial Networks**
Marey A., Bal M., Ates H. F., GÜNTÜRK B. K.
IEEE Access, vol.10, pp.90474-90480, 2022 (SCI-Expanded)
- VI. **HM-Net: A Regression Network for Object Center Detection and Tracking on Wide Area Motion Imagery**
Motorcu H., Ates H. F., Ugurdag H. F., GÜNTÜRK B. K.
IEEE Access, vol.10, pp.1346-1359, 2022 (SCI-Expanded)
- VII. **Predicting Path Loss Distribution of an Area from Satellite Images Using Deep Learning**
Ahmadien O., Ates H. F., Baykas T., GÜNTÜRK B. K.
IEEE Access, vol.8, pp.64982-64991, 2020 (SCI-Expanded)
- VIII. **Space-variant blur kernel estimation and image deblurring through kernel clustering**
Alam M. Z., Qian Q., GÜNTÜRK B. K.
Signal Processing: Image Communication, vol.76, pp.41-55, 2019 (SCI-Expanded)
- IX. **Path Loss Exponent and Shadowing Factor Prediction from Satellite Images Using Deep Learning**
Ates H. F., Hashir S. M., Baykas T., GÜNTÜRK B. K.
IEEE Access, vol.7, pp.101366-101375, 2019 (SCI-Expanded)
- X. **Light field super resolution through controlled micro-shifts of light field sensor**
Mukati M. U., GÜNTÜRK B. K.
Signal Processing: Image Communication, vol.67, pp.71-78, 2018 (SCI-Expanded)
- XI. **Spatial and angular resolution enhancement of light fields using convolutional neural networks**
Gul M. S. K., GÜNTÜRK B. K.
IEEE Transactions on Image Processing, vol.27, no.5, pp.2146-2159, 2018 (SCI-Expanded)
- XII. **Extracting sub-exposure images from a single capture through Fourier-based optical modulation**
Khan S. R., Feldman M., GÜNTÜRK B. K.

- Signal Processing: Image Communication, vol.60, pp.107-115, 2018 (SCI-Expanded)
- XIII. **Hybrid light field imaging for improved spatial resolution and depth range**
Alam M. Z., GÜNTÜRK B. K.
Machine Vision and Applications, vol.29, no.1, pp.11-22, 2018 (SCI-Expanded)
- XIV. **Extending depth of field and dynamic range from differently focused and exposed images**
Qian Q., Gunturk B. K.
MULTIDIMENSIONAL SYSTEMS AND SIGNAL PROCESSING, vol.27, no.2, pp.493-509, 2016 (SCI-Expanded)
- XV. **Blind super-resolution restoration with frame-by-frame nonparametric blur estimation**
Qian Q., Gunturk B. K.
MULTIDIMENSIONAL SYSTEMS AND SIGNAL PROCESSING, vol.27, no.1, pp.255-273, 2016 (SCI-Expanded)
- XVI. **Measuring food intake with digital photography**
Martin C. K., Nicklas T., Gunturk B. K., Correa J. B., Allen H. R., Champagne C.
JOURNAL OF HUMAN NUTRITION AND DIETETICS, vol.27, pp.72-81, 2014 (SCI-Expanded)
- XVII. **Multi-transmitter aperture synthesis with Zernike based aberration correction**
GÜNTÜRK B. K., Rabb D. J., Jameson D. F.
Optics Express, vol.20, no.24, pp.26448-26457, 2012 (SCI-Expanded)
- XVIII. **Multi-transmitter aperture synthesis with Zernike based aberration correction**
Gunturk B. K., Rabb D. J., Jameson D. F.
OPTICS EXPRESS, vol.20, no.24, pp.26448-26457, 2012 (SCI-Expanded)
- XIX. **Camera phasing in multi-aperture coherent imaging**
Gunturk B. K., Miller N. J., Watson E. A.
OPTICS EXPRESS, vol.20, no.11, pp.11796-11805, 2012 (SCI-Expanded)
- XX. **Validity of the Remote Food Photography Method (RFPM) for Estimating Energy and Nutrient Intake in Near Real-Time**
Martin C. K., Correa J. B., Han H., Allen H. R., Rood J. C., Champagne C. M., Gunturk B. K., Bray G. A.
OBESITY, vol.20, no.4, pp.891-899, 2012 (SCI-Expanded)
- XXI. **Fast Bilateral Filter With Arbitrary Range and Domain Kernels**
Gunturk B. K.
IEEE TRANSACTIONS ON IMAGE PROCESSING, vol.20, no.9, pp.2690-2696, 2011 (SCI-Expanded)
- XXII. **Illumination robust interest point detection**
Gevrekci M., Gunturk B. K.
COMPUTER VISION AND IMAGE UNDERSTANDING, vol.113, no.4, pp.565-571, 2009 (SCI-Expanded)
- XXIII. **Restoration of Bayer-sampled image sequences**
Gevrekci M., GÜNTÜRK B. K., Altunbasak Y.
Computer Journal, vol.52, no.1, pp.1-14, 2009 (SCI-Expanded)
- XXIV. **Multiresolution bilateral filtering for image denoising**
Zhang M., GÜNTÜRK B. K.
IEEE Transactions on Image Processing, vol.17, no.12, pp.2324-2333, 2008 (SCI-Expanded)
- XXV. **Superresolution under photometric diversity of images**
Gevrekci M., Gunturk B. K.
EURASIP JOURNAL ON ADVANCES IN SIGNAL PROCESSING, vol.2007, 2007 (SCI-Expanded)
- XXVI. **High-resolution image reconstruction from multiple differently exposed images**
GÜNTÜRK B. K., Gevrekci M.
IEEE Signal Processing Letters, vol.13, no.4, pp.197-200, 2006 (SCI-Expanded)
- XXVII. **Demosaicking: Color filter array interpolation**
GÜNTÜRK B. K., Glotzbach J., Altunbasak Y., Schafer R. W., Mersereau R. M.
IEEE Signal Processing Magazine, vol.22, no.1, pp.44-54, 2005 (SCI-Expanded)
- XXVIII. **Super-resolution reconstruction of compressed video using transform-domain statistics**
GÜNTÜRK B. K., Altunbasak Y., Mersereau R. M.
IEEE Transactions on Image Processing, vol.13, no.1, pp.33-43, 2004 (SCI-Expanded)
- XXIX. **Eigenface-domain super-resolution for face recognition**

GÜNTÜRK B. K., Batur A. U., Altunbasak Y., Hayes III M. H., Mersereau R. M.

IEEE Transactions on Image Processing, vol.12, no.5, pp.597-606, 2003 (SCI-Expanded)

XXX. **Color plane interpolation using alternating projections**

GÜNTÜRK B. K., Altunbasak Y., Mersereau R. M.

IEEE Transactions on Image Processing, vol.11, no.9, pp.997-1013, 2002 (SCI-Expanded)

XXXI. **Multiframe resolution-enhancement methods for compressed video**

GÜNTÜRK B. K., Altunbasak Y., Mersereau R.

IEEE Signal Processing Letters, vol.9, no.6, pp.170-174, 2002 (SCI-Expanded)

XXXII. **Multiframe blocking-artifact reduction for transform-coded video**

GÜNTÜRK B. K., Altunbasak Y., Mersereau R. M.

IEEE Transactions on Circuits and Systems for Video Technology, vol.12, no.4, pp.276-282, 2002 (SCI-Expanded)

Articles Published in Other Journals

I. **Preface**

GÜNTÜRK B. K., Li X.

Image Restoration: Fundamentals and Advances, vol.33, 2012 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

I. **Swin Transformer based Siamese Network for Thermal and Optical Image Registration Termal ve Optik Görüntü Çakiştirmasi için Swin Dönüştürücü tabanlı Siyam Ađı**

Elsaeidy M., Yagmur I. C., Ateş H. F., GÜNTÜRK B. K.

31st IEEE Conference on Signal Processing and Communications Applications, SIU 2023, İstanbul, Turkey, 5 - 08 July 2023

II. **ITERATIVE KERNEL RECONSTRUCTION FOR DEEP LEARNING-BASED BLIND IMAGE SUPER-RESOLUTION**

YILDIRIM S., Ates H. F., GÜNTÜRK B. K.

29th IEEE International Conference on Image Processing, ICIP 2022, Bordeaux, France, 16 - 19 October 2022, pp.3251-3255

III. **Dynamic range and depth of field extension using camera array Kamera dizisi ile dinamik aralik ve odak derinliđi arttirma**

Alam M. Z., GÜNTÜRK B. K.

30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Turkey, 15 - 18 May 2022

IV. **Dual Camera Based High Spatio-Temporal Resolution Video Generation For Wide Area Surveillance**

Suluhan H. U., Ates H. F., GÜNTÜRK B. K.

18th IEEE International Conference on Advanced Video and Signal-Based Surveillance, AVSS 2022, Virtual, Online, Spain, 29 November - 02 December 2022

V. **PREDICTING PATH LOSS DISTRIBUTIONS OF A WIRELESS COMMUNICATION SYSTEM FOR MULTIPLE BASE STATION ALTITUDES FROM SATELLITE IMAGES**

Shoer I., GÜNTÜRK B. K., Ates H. F., Baykas T.

29th IEEE International Conference on Image Processing, ICIP 2022, Bordeaux, France, 16 - 19 October 2022, pp.2471-2475

VI. **Improved YOLOv4 for aerial object detection**

Ali S., Siddique A., Ates H. F., GÜNTÜRK B. K.

29th IEEE Conference on Signal Processing and Communications Applications, SIU 2021, Virtual, Istanbul, Turkey, 9 - 11 June 2021

VII. **Anomaly detection in wide area imagery Geniş alan görüntülerinde anomali tespiti**

Sahin A. H., Ates H. F., GÜNTÜRK B. K.

29th IEEE Conference on Signal Processing and Communications Applications, SIU 2021, Virtual, Istanbul, Turkey, 9 - 11 June 2021

- VIII. **Analysis of deep learning based path loss prediction from satellite images Uydu görüntülerinden derin öğrenme tabanlı yol kaybı tahmini analizi**
Alam M. Z., Ates H. F., Baykas T., GÜNTÜRK B. K.
29th IEEE Conference on Signal Processing and Communications Applications, SIU 2021, Virtual, Istanbul, Turkey, 9 - 11 June 2021
- IX. **Deep Learning-Based Blind Image Super-Resolution using Iterative Networks**
Yaar A., Ates H. F., GÜNTÜRK B. K.
2021 International Conference on Visual Communications and Image Processing, VCIP 2021, Munich, Germany, 5 - 08 December 2021
- X. **Deconvolution based light field extraction from a single image capture**
Alam M. Z., GÜNTÜRK B. K.
25th IEEE International Conference on Image Processing, ICIP 2018, Athens, Greece, 7 - 10 October 2018, pp.420-424
- XI. **Hybrid-sensor high-resolution light field imaging Hibrid sensörlü yüksek çözünürlüklü Işık alan görüntüleme**
Mukati M. U., GÜNTÜRK B. K.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- XII. **High dynamic range imaging using a plenoptic camera**
Wahab A., Alam M. Z., GÜNTÜRK B. K.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- XIII. **Hybrid-sensor high-resolution light field imaging**
Mukati M. U., Gunturk B. K.
2017 25TH SIGNAL PROCESSING AND COMMUNICATIONS APPLICATIONS CONFERENCE (SIU)
- XIV. **Light field registration: A multi-view geometry approach Isik Alani Çakistirmasi: Çok Görüntülü Geometri Yaklasimi**
Mukati M. U., GÜNTÜRK B. K.
24th Signal Processing and Communication Application Conference, SIU 2016, Zonguldak, Turkey, 16 - 19 May 2016, pp.1289-1292
- XV. **Hybrid stereo imaging including a light field and a regular camera Isik Alani Kamerasi ve Normal Kamera İçeren Hibrid Stereo Görüntüleme**
Alam M. Z., GÜNTÜRK B. K.
24th Signal Processing and Communication Application Conference, SIU 2016, Zonguldak, Turkey, 16 - 19 May 2016, pp.1293-1296
- XVI. **Space-Varying Blur Kernel Estimation and Image Deblurring**
Qian Q., Gunturk B. K.
DIGITAL PHOTOGRAPHY X, San Francisco, CA, United States Of America, 3 - 05 February 2014, vol.9023
- XVII. **Super-Resolution Restoration of Motion Blurred Images**
Qian Q., Gunturk B. K.
DIGITAL PHOTOGRAPHY X, San Francisco, CA, United States Of America, 3 - 05 February 2014, vol.9023
- XVIII. **Frequency division multiplexed imaging: a Texas Instruments DMD implementation**
Habibkhani H., Gunturk B. K., Feldman M., Batur A. U.
EMERGING DIGITAL MICROMIRROR DEVICE BASED SYSTEMS AND APPLICATIONS VI, San Francisco, CA, United States Of America, 4 - 05 February 2014, vol.8979
- XIX. **Joint Focus Stacking and High Dynamic Range Imaging**
Qian Q., Gunturk B. K., Batur A. U.
DIGITAL PHOTOGRAPHY IX, vol.8660
- XX. **Food image analysis for measuring food intake in free living conditions**
Dibiano R., Gunturk B. K., Martin C. K.

MEDICAL IMAGING 2013: IMAGE PROCESSING, vol.8669

- XXI. **Frequency Division Multiplexed Imaging**
Gunturk B. K., Feldman M.
DIGITAL PHOTOGRAPHY IX, vol.8660
- XXII. **Improving the Performance of Interest Point Detectors with Contrast Stretching Functions**
Gunashekhhar P. K., Gunturk B. K.
IMAGE PROCESSING: MACHINE VISION APPLICATIONS VI, vol.8661
- XXIII. **Glottis segmentation using dynamic programming**
Chen J., Gunturk B. K., Kunduk M.
MEDICAL IMAGING 2013: IMAGE PROCESSING, vol.8669
- XXIV. **A NEW BIOMECHANICAL MODEL OF VOCAL FOLD VIBRATIONS: PRELIMINARY EXPERIMENTAL VALIDATION**
Wei Z., de Queiroz M., Chen J., Gunturk B. K., Kunduk M.
PROCEEDINGS OF THE ASME DYNAMIC SYSTEMS AND CONTROL CONFERENCE AND BATH/ASME SYMPOSIUM ON FLUID POWER AND MOTION CONTROL (DSCC 2011), VOL 2, pp.503-510
- XXV. **High Dynamic Range Imaging of Non-Static Scenes**
Hossain I., Gunturk B. K.
DIGITAL PHOTOGRAPHY VII, vol.7876
- XXVI. **Joint photometric registration and optical flow estimation**
Hossain I., GÜNTÜRK B. K.
2010 17th IEEE International Conference on Image Processing, ICIP 2010, Hong Kong, hkg, 26 - 29 September 2010, pp.1201-1204
- XXVII. **Fast bilateral filter with arbitrary range and domain kernels**
GÜNTÜRK B. K.
2010 17th IEEE International Conference on Image Processing, ICIP 2010, Hong Kong, hkg, 26 - 29 September 2010, pp.3289-3292
- XXVIII. **Compression artifact reduction with adaptive bilateral filtering**
Zhang M., GÜNTÜRK B. K.
Visual Communications and Image Processing 2009, San Jose, CA, United States Of America, 20 - 21 January 2009, vol.7257
- XXIX. **Quantification of food intake using food image analysis**
Martin C. K., Kaya S., GÜNTÜRK B. K.
31st Annual International Conference of the IEEE Engineering in Medicine and Biology Society: Engineering the Future of Biomedicine, EMBC 2009, Minneapolis, MN, United States Of America, 2 - 06 September 2009, pp.6869-6872
- XXX. **Reliable interest point detection under large illumination variations**
Gevrekci M., GÜNTÜRK B. K.
2008 IEEE International Conference on Image Processing, ICIP 2008, San Diego, CA, United States Of America, 12 - 15 October 2008, pp.869-872
- XXXI. **Image demosaicing: A systematic survey**
Li X., GÜNTÜRK B. K., Zhang L.
Visual Communications and Image Processing 2008, San Jose, CA, United States Of America, 29 - 31 January 2008, vol.6822
- XXXII. **A new image denoising method based on the bilateral filter**
Zhang M., Gunturk B. K.
2008 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH AND SIGNAL PROCESSING, VOLS 1-12, pp.929-932
- XXXIII. **A new image denoising framework based on bilateral filter**
Zhang M., Gunturk B. K.
VISUAL COMMUNICATIONS AND IMAGE PROCESSING 2008, PTS 1 AND 2, vol.6822
- XXXIV. **Super resolution approaches for photometrically diverse image sequences**

- Gevrekci M., Gunturk B. K.
2007 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, VOL I, PTS 1-3, PROCEEDINGS, pp.757-760
- XXXV. **On geometric and photometric registration of images**
Gevrekci M., Gunturk B. K.
2007 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, VOL I, PTS 1-3, PROCEEDINGS, pp.1261-1264
- XXXVI. **POCS-based restoration of Bayer-sampled image sequences**
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2007 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, VOL I, PTS 1-3, PROCEEDINGS
- XXXVII. **Image retrieval using canonical cyclic string representation of polygons**
Soysal Ö. M., GÜNTÜRK B. K., Matthews II K. L.
2006 IEEE International Conference on Image Processing, ICIP 2006, Atlanta, GA, United States Of America, 8 - 11 October 2006, pp.1493-1496
- XXXVIII. **Reconfigurable implementation of wavelet integer lifting transforms for image compression**
Bishop S. L., Rai S., Gunturk B. K., Trahan J. L., Vaidyanathan R.
RECONFIG 2006: PROCEEDINGS OF THE 2006 IEEE INTERNATIONAL CONFERENCE ON RECONFIGURABLE COMPUTING AND FPGA'S
- XXXIX. **Feature-based image registration in log-polar domain**
Thunuguntla S., Gunturk B. K.
2005 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, VOLS 1-5, pp.853-856
- XL. **Handling exposure time in multi-frame image restoration**
Gunturk B. K.
2005 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, VOLS 1-5, pp.865-868
- XLI. **Image acquisition modeling for super-resolution reconstruction**
Gevrekci M., Gunturk B. K.
2005 INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP), VOLS 1-5, pp.2157-2160
- XLII. **Super-resolution reconstruction from differently exposed images**
Gunturk B. K.
PROCEEDINGS OF THE SIXTH IASTED INTERNATIONAL CONFERENCE ON SIGNAL AND IMAGE PROCESSING, pp.625-629
- XLIII. **Multi-frame information fusion for gray-scale and spatial enhancement of images**
Gunturk B. K., Altunbasak Y., Mersereau R.
2003 INTERNATIONAL CONFERENCE ON IMAGE PROCESSING, VOL 2, PROCEEDINGS, pp.319-322
- XLIV. **Eigenface-based super-resolution for face recognition**
Gunturk B. K., Batur A., Altunbasak Y., Hayes M., Mersereau R.
2002 INTERNATIONAL CONFERENCE ON IMAGE PROCESSING, VOL II, PROCEEDINGS, pp.845-848
- XLV. **Color plane interpolation using alternating projections**
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2002 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, VOLS I-IV, PROCEEDINGS, pp.3333-3336
- XLVI. **Gray-scale resolution enhancement**
Gunturk B. K., Altunbasak Y., Mersereau R.
2001 IEEE FOURTH WORKSHOP ON MULTIMEDIA SIGNAL PROCESSING, pp.155-160
- XLVII. **Bayesian resolution-enhancement framework for transform-coded video**
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2001 INTERNATIONAL CONFERENCE ON IMAGE PROCESSING, VOL II, PROCEEDINGS, pp.41-44
- XLVIII. **A multi-frame blocking artifact reduction method for transform-coded video**

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2001 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, VOLS I-VI,
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