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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Massachusetts Institute of Technology, Elektrik Mühendisliği Ve Bilgisayar Bilimi, Amerika Birleşik Devletleri 2006 - 2010
Yüksek Lisans, Massachusetts Institute of Technology, Elektrik Mühendisliği Ve Bilgisayar Bilimi, Amerika Birleşik Devletleri 2004 - 2006
Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 1999 - 2003

Yabancı Diller

Almanca, B2 Orta Üstü

Yaptığı Tezler

Doktora, Transforms for Prediction Residuals in Video Coding, Massachusetts Institute Of Technology, Elektrik Mühendisliği Ve Bilgisayar Bilimi, 2010
Yüksek Lisans, Reduction of Blockıng Artifacts Using Side Information, Massachusetts Institute Of Technology, Elektrik Mühendisliği Ve Bilgisayar Bilimi, 2006

Araştırma Alanları

Görüntü ve Video İşleme, Sinyal İşleme Kuramı ve Metotları

Akademik Unvanlar / Görevler

Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2017 - Devam Ediyor
Yrd.Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2012 -

2017
Öğretim Görevlisi Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2011 - 2012

Yönetilen Tezler

Kamişli F., A PIXEL-BY-PIXEL LEARNED LOSSLESS IMAGE COMPRESSION METHODWITH PARALLEL DECODING, Yüksek Lisans, S.GÜMÜŞ(Öğrenci), 2022
Kamişli F., DEEP IMAGE COMPRESSION WITH A UNIFIED SPATIAL AND CHANNEL CONTEXT AUTO-REGRESSIVE MODEL, Yüksek Lisans, A.SEFKAN(Öğrenci), 2022
Kamişli F., Image compression method based on learned lifting-based dwt and learned zerotree-like entropy model, Yüksek Lisans, U.BERK(Öğrenci), 2022
KAMIŞLI F., End-to-end learned image compression with normalizing flows for latent space enhancement, Yüksek Lisans, F.YAVUZ(Öğrenci), 2022
Kamışlı F., End-to-end learned image compression with conditional latent space modelling for entropy coding, Yüksek Lisans, A.BERKAY(Öğrenci), 2019
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KAMIŞLI F., Intra prediction with 3-tap filters for lossless and lossy video coding, Yüksek Lisans, S.RANJBAR(Öğrenci), 2016
KAMIŞLI F., Design of H.264/AVC compatible intra-frame video encoder on FPGA programmable logic devices, Yüksek Lisans, Ö.GÜNAY(Öğrenci), 2014
KAMIŞLI F., Development and comparison of transforms for prediction residuals of Markov-process-based intra prediction, Yüksek Lisans, N.TEKELİ(Öğrenci), 2014
KAMIŞLI F., Multiview video compression with 1-D transforms, Yüksek Lisans, B.KARASOY(Öğrenci), 2013

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. **A learned pixel-by-pixel lossless image compression method with 59K parameters and parallel decoding**
Gümüş S., KAMIŞLI F.
Multimedia Tools and Applications, cilt.83, sa.8, ss.22975-22993, 2024 (SCI-Expanded)
II. **Learned Lossless Image Compression Through Interpolation With Low Complexity**
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III. **Image compression with learned lifting-based DWT and learned tree-based entropy models**
Sahin U. B., KAMIŞLI F.
Multimedia Systems, cilt.29, sa.6, ss.3369-3384, 2023 (SCI-Expanded)
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V. **A low-complexity image compression approach with single spatial prediction mode and transform**
KAMIŞLI F.
SIGNAL IMAGE AND VIDEO PROCESSING, cilt.10, sa.8, ss.1409-1416, 2016 (SCI-Expanded)
VI. **On lossless intra coding in HEVC with 3-tap filters**
Alvar S. R., KAMIŞLI F.
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VII. **Multiview video compression with 1-D transforms**
Karasoy B., KAMIŞLI F.
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VIII. **Block-Based Spatial Prediction and Transforms Based on 2D Markov Processes for Image and Video Compression**
Kamisli F.
IEEE TRANSACTIONS ON IMAGE PROCESSING, cilt.24, sa.4, ss.1247-1260, 2015 (SCI-Expanded)

IX. **Recursive Prediction for Joint Spatial and Temporal Prediction in Video Coding**
Kamisli F.
IEEE SIGNAL PROCESSING LETTERS, cilt.21, sa.6, ss.732-736, 2014 (SCI-Expanded)

X. **Intra Prediction Based on Markov Process Modeling of Images**
Kamisli F.
IEEE TRANSACTIONS ON IMAGE PROCESSING, cilt.22, sa.10, ss.3916-3925, 2013 (SCI-Expanded)

XI. **1-D Transforms for the Motion Compensation Residual**
Kamisli F., Lim J. S.
IEEE TRANSACTIONS ON IMAGE PROCESSING, cilt.20, sa.4, ss.1036-1046, 2011 (SCI-Expanded)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. **An Artificial Neural Network Based Pixel-by-Pixel Lossless Image Compression Method**
Gumus S., Kamisli F.
2022 30th Signal Processing and Communications Applications Conference (SIU), Karabük, Türkiye, 15 - 18 Mayıs 2022, ss.1-4

II. **End-to-end learned image compression with conditional latent space modeling for entropy coding**
Yesilyurt A. B., Kamişli F.
28th European Signal Processing Conference, EUSIPCO 2020, Amsterdam, Hollanda, 24 - 28 Ağustos 2020, ss.501-505

III. **Single Image Noise Level Estimation Using Dark Channel Prior**
Yeşilyurt A. B., EROL A., KAMIŞLI F., ALATAN A. A.
2019 IEEE International Conference on Image Processing (ICIP), Taipei, Taiwan, 22 - 25 Eylül 2019

IV. **Coding Gain Optimized 8-Point DST with Fast Algorithm for Intra-frames in Video Coding**
Cilasun M. H., KAMIŞLI F.
European Signal Processing Conference (EUSIPCO), Rome, İtalya, 3 - 07 Ağustos 2018, ss.156-160

V. **Fast DST optimizations for intra-frame coding**
Cılasun M. H., KAMIŞLI F.
2018 26th Signal Processing and Communications Applications Conference (SIU), İzmir, Türkiye, 2 - 05 Mayıs 2018

VI. **Statistical Analysis and Directional Coding of Layer-based HDR Image Coding Residue**
Feyiz K., KAMIŞLI F., Zerman E., Valenzise G., Koz A., Dufaux F.
19th IEEE International Workshop on Multimedia Signal Processing (MMSP), Luton, Birleşik Krallık, 16 - 18 Ekim 2017

VII. **Statistical Analysis of Residue Signal for Backward Compatible HDR Image Coding**
KAMIŞLI F., Feyiz K., Koz A., Zerman E., Valenzise G., Dufaux F.
2017 25TH SIGNAL PROCESSING AND COMMUNICATIONS APPLICATIONS CONFERENCE (SIU), Antalya, Türkiye, 15 - 18 Mayıs 2017

VIII. **An efficient HW&SW design of H.264 video compression, storage and playback on FPGA devices for hand-held thermal imaging systems**
Gunay O., Ozsarac I., KAMIŞLI F.
Conference on Real-Time Image and Video Processing, California, Amerika Birleşik Devletleri, 10 - 11 Nisan 2017, cilt.10223

IX. **Losless Compression in HEVC with Integer to Integer Transforms**

KAMIŞLI F.
2016 IEEE Workshop on Multimedia Signal Processing (MMSP 2016), Montreal, Kanada, 21 - 23 Eylül 2016

X. **LOSSLESS COMPRESSION IN HEVC WITH INTEGER-TO-INTEGER TRANSFORMS**
KAMIŞLI F.
18th IEEE International Workshop on Multimedia Signal Processing (MMSP), Montreal, Kanada, 21 - 23 Eylül 2016

XI. **LOSSLESS INTRA CODING IN HEVC WITH INTEGER-TO-INTEGER DST**
KAMIŞLI F.
24th European Signal Processing Conference (EUSIPCO), Budapest, Macaristan, 28 Ağustos - 02 Eylül 2016, ss.2440-2444

XII. **Lossless Intra Coding in HEVC with Adaptive 3-Tap Filters**
Alvar S. R., KAMIŞLI F.
International Conference on Image, Vision and Computing (ICIVC), Portsmouth, Dominika, 3 - 05 Ağustos 2016, ss.124-128

XIII. **Improvement of Transform-Skip Mode in Lossy Intra Coding with 3-Tap Filters**
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XIV. **Intra-frame Coding with Recursive Intra Prediction and Adapted Block Transforms**
Tekeli N., KAMIŞLI F.
IEEE Visual Communications and Image Processing Conference, Valletta, Malta, 7 - 10 Aralık 2014, ss.185-188

XV. **TRANSFORMS FOR THE DISPARITY-COMPENSATED PREDICTION RESIDUALS**
Karasoy B., KAMIŞLI F.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Türkiye, 23 - 25 Nisan 2014, ss.168-171

XVI. **INTRA PREDICTION BASED ON STATISTICAL MODELING OF IMAGES**
Kamisli F.
IEEE Visual Communications and Image Processing (VCIP), California, Amerika Birleşik Devletleri, 27 - 30 Kasım 2012

Metrikler

Yayın: 27
Atıf (WoS): 82
Atıf (Scopus): 102
H-İndeks (WoS): 5
H-İndeks (Scopus): 5