

Assoc. Prof. FATİH KAMIŞLI

Personal Information

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Education Information

Doctorate, Massachusetts Institute Of Technology, Elektrik Mühendisliği Ve Bilgisayar Bilimi, United States Of America
2006 - 2010

Post Graduate, Massachusetts Institute Of Technology, Elektrik Mühendisliği Ve Bilgisayar Bilimi, United States Of
America 2004 - 2006

Under Graduate, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü,
Turkey 1999 - 2003

Foreign Languages

German, B2 Upper Intermediate

Dissertations

Doctorate, Transforms for Prediction Residuals in Video Coding, Massachusetts Institute Of Technology, Elektrik
Mühendisliği Ve Bilgisayar Bilimi, 2010

Post Graduate, Reduction of Blocking Artifacts Using Side Information, Massachusetts Institute Of Technology, Elektrik
Mühendisliği Ve Bilgisayar Bilimi, 2006

Research Areas

Image and Video Processing, Signal Processing Theory and Methods

Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü,
2017 - Continues

Assistant Professor, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü,
2012 - 2017

Lecturer PhD, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2011 -
2012

Advising Theses

Kamişlı F., End-to-end learned image compression with conditional latent space modelling for entropy coding, Post Graduate, A.BERKAY(Student), 2019

KAMIŞLI F., Directional coding of backward compatible high dynamic range (HDR) image coding residues, Post Graduate, K.FEYİZ(Student), 2018

KAMIŞLI F., Intra prediction with 3-tap filters for lossless and lossy video coding, Post Graduate, S.RANJBAR(Student), 2016

KAMIŞLI F., Design of H.264/AVC compatible intra-frame video encoder on FPGA programmable logic devices /, Post Graduate, Ö.GÜNAY(Student), 2014

KAMIŞLI F., Development and comparison of transforms for prediction residuals of Markov-process-based intra prediction, Post Graduate, N.TEKELİ(Student), 2014

KAMIŞLI F., Multiview video compression with 1-D transforms, Post Graduate, B.KARASOY(Student), 2013

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Lossless Image and Intra-Frame Compression With Integer-to-Integer DST**
KAMIŞLI F.
IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, vol.29, no.2, pp.502-516, 2019
(Journal Indexed in SCI)
- II. **A low-complexity image compression approach with single spatial prediction mode and transform**
KAMIŞLI F.
SIGNAL IMAGE AND VIDEO PROCESSING, vol.10, no.8, pp.1409-1416, 2016 (Journal Indexed in SCI)
- III. **On lossless intra coding in HEVC with 3-tap filters**
Alvar S. R. , KAMIŞLI F.
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.47, pp.252-262, 2016 (Journal Indexed in SCI)
- IV. **Multiview video compression with 1-D transforms**
Karasoy B., KAMIŞLI F.
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.33, pp.14-28, 2015 (Journal Indexed in SCI)
- V. **Block-Based Spatial Prediction and Transforms Based on 2D Markov Processes for Image and Video Compression**
Kamisli F.
IEEE TRANSACTIONS ON IMAGE PROCESSING, vol.24, no.4, pp.1247-1260, 2015 (Journal Indexed in SCI)
- VI. **Recursive Prediction for Joint Spatial and Temporal Prediction in Video Coding**
Kamisli F.
IEEE SIGNAL PROCESSING LETTERS, vol.21, no.6, pp.732-736, 2014 (Journal Indexed in SCI)
- VII. **Intra Prediction Based on Markov Process Modeling of Images**
Kamisli F.
IEEE TRANSACTIONS ON IMAGE PROCESSING, vol.22, no.10, pp.3916-3925, 2013 (Journal Indexed in SCI)
- VIII. **1-D Transforms for the Motion Compensation Residual**
Kamisli F., Lim J. S.
IEEE TRANSACTIONS ON IMAGE PROCESSING, vol.20, no.4, pp.1036-1046, 2011 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **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 September 2019
- II. **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, Italy, 3 - 07 August 2018, pp.156-160

- III. **Fast DST optimizations for intra-frame coding**
Cilasun M. H. , KAMIŞLI F.
2018 26th Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- IV. **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, United Kingdom, 16 - 18 October 2017
- V. **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, Turkey, 15 - 18 May 2017
- VI. **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, United States Of America, 10 - 11 April 2017, vol.10223
- VII. **Lossless Compression in HEVC with Integer to Integer Transforms**
KAMIŞLI F.
2016 IEEE Workshop on Multimedia Signal Processing (MMSP 2016), Montreal, Canada, 21 - 23 September 2016
- VIII. **LOSSLESS COMPRESSION IN HEVC WITH INTEGER-TO-INTEGER TRANSFORMS**
KAMIŞLI F.
18th IEEE International Workshop on Multimedia Signal Processing (MMSP), Montreal, Canada, 21 - 23 September 2016
- IX. **LOSSLESS INTRA CODING IN HEVC WITH INTEGER-TO-INTEGER DST**
KAMIŞLI F.
24th European Signal Processing Conference (EUSIPCO), Budapest, Hungary, 28 August - 02 September 2016, pp.2440-2444
- X. **Lossless Intra Coding in HEVC with Adaptive 3-Tap Filters**
Alvar S. R. , KAMIŞLI F.
International Conference on Image, Vision and Computing (ICIVC), Portsmouth, Dominica, 3 - 05 August 2016, pp.124-128
- XI. **Improvement of Transform-Skip Mode in Lossy Intra Coding with 3-Tap Filters**
Alvar S. R. , KAMIŞLI F.
International Conference on Image, Vision and Computing (ICIVC), Portsmouth, Dominica, 3 - 05 August 2016, pp.114-118
- XII. **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 December 2014, pp.185-188
- XIII. **TRANSFORMS FOR THE DISPARITY-COMPENSATED PREDICTION RESIDUALS**
Karasoy B., KAMIŞLI F.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.168-171
- XIV. **INTRA PREDICTION BASED ON STATISTICAL MODELING OF IMAGES**
Kamışli F.
IEEE Visual Communications and Image Processing (VCIP), California, United States Of America, 27 - 30 November 2012

Citations

Total Citations (WOS):69

h-index (WOS):4