

Prof. AHMET OĞUZ AKYÜZ

Personal Information

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Education Information

Doctorate, University Of Central Florida, Computer Science, United States Of America 2003 - 2007

Under Graduate, Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering, Turkey 1999 - 2003

Foreign Languages

English, C1 Advanced

Research Areas

Computer Sciences, Computer Graphics, Computer Graphics, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2014 - Continues

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2011 - 2014

Research Assistant, University Of Central Florida, Department Of Computer Science, 2003 - 2007

Advising Theses

Akyüz A. O. , Semi dynamic light maps, Post Graduate, B.ÖZTÜRK(Student), 2019

AKYÜZ A. O. , DEEP JOINT DEINTERLACING AND DENOISING FOR SINGLE SHOT DUAL-ISO HDR RECONSTRUCTION, Post Graduate, U.ÇOĞALAN(Student), 2019

Akyüz A. O. , Visibility of dct quantization noise for high dynamic range images, Post Graduate, S.BEGÜM(Student), 2019

AKYÜZ A. O. , Image based solar position editing and relighting, Post Graduate, M.TÜRE(Student), 2018

AKYÜZ A. O. , Visual privacy protection using false colors, Doctorate, S.ÇİFTÇİ(Student), 2017

AKYÜZ A. O. , The state of the art in HDR deghosting and an objective HDR image deghosting quality metric, Doctorate, O.TARHAN(Student), 2016

AKYÜZ A. O. , AKAR G., GPU based infrared signature modeling and scene simulation, Post Graduate, Ç.KAVAK(Student), 2014

AKYÜZ A. O. , A subjective evaluation of tone mapping and exposure fusion algorithms in standard and small screen display devices, Post Graduate, M.LEVENT(Student), 2013

Articles Published in Journals that Entered SCI, SSCI and AHCI indexes

- **Deep Joint Deinterlacing and Denoising for Single Shot Dual-ISO HDR Reconstruction**
Cogalan U., AKYÜZ A. O.
IEEE TRANSACTIONS ON IMAGE PROCESSING, vol.29, pp.7511-7524, 2020 (Journal Indexed in SCI)
- **Automatic saturation correction for dynamic range management algorithms**
Artusi A., POULÍ T., BANTERLE F., AKYÜZ A. O.
SIGNAL PROCESSING-IMAGE COMMUNICATION, vol.63, pp.100-112, 2018 (Journal Indexed in SCI)
- **A Reliable and Reversible Image Privacy Protection Based on False Colors**
ÇİFTÇİ S., Akyuz A. O. , Ebrahimi T.
IEEE TRANSACTIONS ON MULTIMEDIA, vol.20, pp.68-81, 2018 (Journal Indexed in SCI)
- **Privacy protection of tone-mapped HDR images using false colours**
ÇİFTÇİ S., AKYÜZ A. O. , PÍNHÉIRO A. M. G. , Ebrahimi T.
IET SIGNAL PROCESSING, vol.11, pp.1055-1061, 2017 (Journal Indexed in SCI)
- **A Proposed Methodology for Evaluating HDR False Color Maps**
Akyuz A. O. , KAYA O.
ACM TRANSACTIONS ON APPLIED PERCEPTION, vol.14, 2016 (Journal Indexed in SCI)
- **A Gamut-Mapping Framework for Color-Accurate Reproduction of HDR Images**
SÍKUDOVA E., POULÍ T., ARTUSÍ A., Akyuz A. O. , BANTERLE F., Mazlumoglu Z. M. , REINHARD E.
IEEE COMPUTER GRAPHICS AND APPLICATIONS, vol.36, pp.78-90, 2016 (Journal Indexed in SCI)
- **An Objective Deghosting Quality Metric for HDR Images**
TURSUN O. T. , AKYÜZ A. O. , Erdem A., Erdem E.
COMPUTER GRAPHICS FORUM, vol.35, pp.139-152, 2016 (Journal Indexed in SCI)
- **High dynamic range imaging pipeline on the GPU**
Akyuz A. O.
JOURNAL OF REAL-TIME IMAGE PROCESSING, vol.10, pp.273-287, 2015 (Journal Indexed in SCI)
- **The State of the Art in HDR Deghosting: A Survey and Evaluation**
Tursun O. T. , AKYÜZ A. O. , Erdem A., Erdem E.
COMPUTER GRAPHICS FORUM, vol.34, pp.683-707, 2015 (Journal Indexed in SCI)
- **A reality check for radiometric camera response recovery algorithms**
AKYÜZ A. O. , Genctav A.
COMPUTERS & GRAPHICS-UK, vol.37, pp.935-943, 2013 (Journal Indexed in SCI)
- **An evaluation of image reproduction algorithms for high contrast scenes on large and small screen display devices**
AKYÜZ A. O. , EKSERT M. L. , AYDIN M.
COMPUTERS & GRAPHICS-UK, vol.37, pp.885-895, 2013 (Journal Indexed in SCI)
- **Perceptual Evaluation of Tone-Reproduction Operators Using the Cornsweet-Craik-O'Brien Illusion**
Akyuez A. O. , Reinhard E.
ACM TRANSACTIONS ON APPLIED PERCEPTION, vol.4, 2008 (Journal Indexed in SCI)
- **Noise reduction in high dynamic range imaging**
Akyuez A. O. , Reinhard E.
JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION, vol.18, pp.366-376, 2007 (Journal Indexed in SCI)
- **Do HDR displays support LDR content? a psychophysical evaluation**
Akyüz A. O. , Fleming R., Riecke B. E. , Reinhard E., Buethoff H. H.
ACM TRANSACTIONS ON GRAPHICS, vol.26, 2007 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Color Preserving HDR Fusion for Dynamic Scenes**
Karadağ G., AKYÜZ A. O.
Journal of WSCG, 2012 (Refereed Journals of Other Institutions)

Books & Book Chapters

- **Çocuklara Programlama Nasıl Öğretilebilir?**
Akyüz A. O.
in: Prof. Dr. Emine Akyüz'e Armağan Akademisyenlikte 50 Yıl, Yasemin Karaman Kepenekçi, Pelin Taşkın, Editor, Pegem A Yayıncılık, Ankara, pp.66-73, 2018
- **Ghosting in HDR Video**
AKYÜZ A. O. , TURSUN O. T. , Telalovic J., Hadziabdic K.
in: High Dynamic Range Video Concepts Technologies and Applications, Alan Chalmers, Patrizio Campisi, Peter Shirley, Igor Olaizola, Editor, Elsevier, pp.3-44, 2016
- **Rendering**
Reinhard E., Khan E. A. , AKYÜZ A. O.
in: Wiley Encyclopedia of Computer Science and Engineering, Benjamin W. Wah, Editor, Wiley, pp.2412-2418, 2009
- **Color Imaging Fundamentals and Applications**
Reinhard E., Khan E. A. , AKYÜZ A. O. , Johnson G. M.
CRC Press (AK Peters), 2008

Refereed Congress / Symposium Publications in Proceedings

- **Compressed Exposure Sequences for HDR Imaging**
Sekmen S., AKYÜZ A. O.
27. International Conference in Central Europe on Computer Graphics, Visualization and Computer Vision, Pilsen, Czech Republic, 27 - 30 May 2019, pp.143-151
- **Semi-dynamic light maps**
Öztürk B., Akyüz A. O.
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- **Practical HDR A Simple and Effective Method for Merging High Dynamic Range Videos**
Akcora E., Banterle F., Corsini M., AKYÜZ A. O. , Scopigno R.
Proceedings of the 13th European Conference on Visual Media Production (CVMP 2016) - CVMP 2016, London, United Kingdom, 12 - 13 December 2016, pp.1-7
- **MediaEval 2015 Drone Protect Task Privacy Protection in Surveillance Systems Using False Coloring**
ÇİFTÇİ S., Korshunov P., AKYÜZ A. O. , Ebrahimi T.
MediaEval 2015 Workshop, Wurzen, Germany, 14 - 15 September 2015
- **Using False Colors to Protect Visual Privacy of Sensitive Content**
Ciftci S., Korshunov P., AKYÜZ A. O. , Ebrahimi T.
Conference on Human Vision and Electronic Imaging XX, San-Francisco, Costa Rica, 9 - 12 February 2015, vol.9394
- **Evaluating Deghosting Algorithms for HDR Images**
Tursun O. T. , AKYÜZ A. O. , Erdem A., Erdem E.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.1275-1278
- **Style based tone mapping for HDR images**
AKYÜZ A. O. , Hadımlı K., Aydınlılar M., Bloch C.
SIGGRAPH Asia 2013 Technical Briefs on - SA '13, Hong Kong, Hong Kong, 19 - 22 November 2013
- **SELECTIVE LOCAL TONE MAPPING**
Artusi A., AKYÜZ A. O. , Roch B., Michael D., Chrysanthou Y., Chalmers A.
20th IEEE International Conference on Image Processing (ICIP), Melbourne, Australia, 15 - 18 September 2013, pp.2309-2313
- **False color visualization for hdr images**
AKYÜZ A. O.
HDRi2013 - First International Conference and SME Workshop on HDR imaging, Porto, Portugal, 9 - 10 April 2013,

pp.26-30

Color Correction for Tone Reproduction

Pouli T., Artusi A., Banterle F., AKYÜZ A. O. , Seidel H. P. , Reinhard E.

Color and Imaging Conference, 21st Color and Imaging Conference Final Program and Proceedings, Albuquerque, United States Of America, 4 - 08 November 2013, pp.215-220

Evaluation of radiometric camera response recovery methods

Gençtav A., AKYÜZ A. O.

SIGGRAPH Asia 2011 Posters on - SA '11, Hong Kong, China, 12 - 15 December 2011

Photographically Guided Alignment for HDR Images

AKYÜZ A. O.

Eurographics 2011, Llandudno, United Kingdom, 11 - 15 April 2011, pp.73-74

Ghost Removal in High Dynamic Range Images

Khan E. A. , AKYÜZ A. O. , Reinhard E.

2006 International Conference on Image Processing, Atlanta Marriott Marquis, Atlanta, GA, USA, United States Of America, 8 - 11 October 2006, pp.2005-2008

Serum copper and zinc status in obstructive sleep apnea patients

Akyuz A., Yurdun T., Pelin Z., Ozogur S., Ercan O.

18th Congress of the European-Sleep-Research-Society, Innsbruck, Austria, 12 - 16 September 2006, vol.15, pp.71

Optical search for Supernova Remnants in two-spiral galaxies

Akyuz A., Balman S., Bhattacharya D., Sonbas E., Cekmecelioglu E.

Symposium on the X-ray Universe 2005, El Escorial, Spain, 26 - 30 September 2005, vol.604, pp.441-442

Supported Projects

AKYÜZ A. O. , Project Supported by Higher Education Institutions, Farklı Parlaklıktaki Resim Dizilerinin Yüksek Dinamik Aralıklı Resim Oluşturma Amacı İle Hizalanması, 2011 - 2013

Scientific Refereeing

DIGITAL SIGNAL PROCESSING, Journal Indexed in SCI-E, September 2019

SIGNAL PROCESSING-IMAGE COMMUNICATION, Journal Indexed in SCI-E, September 2019

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, İNFRARED YAZILIM ARGE DANIŞMANLIK MÜH. TİC. LTD. ŞTİ., Turkey, August 2019

EUSIPCO 2019, Conference Paper (Full Text), May 2019

EUSIPCO 2019, Conference Paper (Full Text), May 2019

EUSIPCO 2019, Conference Paper (Full Text), May 2019

TUBITAK Project, 1511 - TUBITAK Priority Fields Research Technology Development and Innovation PDP, SİMBT SİMÜLASYON BİLİM VE TEKNOLOJİLERİ MÜHENDİSLİK DANIŞMANLIK VE TİCARET LTD. ŞTİ., Turkey, May 2019

SIGNAL PROCESSING-IMAGE COMMUNICATION, Journal Indexed in SCI-E, April 2019

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, GEOİNSİGHT ARAŞTIRMA, YAZILIM VE DANIŞMANLIK LTD.ŞTİ., Turkey, March 2019

IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS, Journal Indexed in SCI-E, February 2019

Eurographics, Conference Paper (Abstract), February 2019

Eurographics, Conference Paper (Abstract), February 2019

Eurographics, Conference Paper (Abstract), February 2019

Eurographics, Conference Paper (Abstract), February 2019

TUBITAK Project, 1501 - Industry R & D Projects Support Program, MAY SİBER TEKNOLOJİ BİLİŞİM BİLGİSAYAR EĞİTİM DAN. YAZILIM TİC. SAN. A.Ş., Turkey, December 2018

Journal Of Imaging Science And Technology, Journal Indexed in SCI-E, November 2018

JOURNAL OF SENSORS, Journal Indexed in SCI-E, November 2018

ACM TRANSACTIONS ON GRAPHICS, SCI Journal, October 2018

IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS, SCI Journal, August 2018

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, COMPELLO BİLGİ TEKNOLOJİSİ HİZMETLERİ VE TİCARET A.Ş., Turkey, August 2018

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, ROTECHEVISION BİLİŞİM TİC. LTD. ŞTİ., Turkey, August 2018

SIGNAL PROCESSING-IMAGE COMMUNICATION, Journal Indexed in SCI-E, April 2018

Signal Processing-Image Communication, Journal Indexed in SCI-E, March 2018

Scientific Consultations

ÜLKEM A.Ş., Scientific Consultancy, Middle East Technical University, Faculty Of Engineering, Department Of Computer Engineering, Turkey, 2018 - 2019

ÜLKEM A.Ş., Scientific Consultancy, Middle East Technical University, Faculty Of Engineering, Department Of Computer Engineering, Turkey, 2017 - 2018

Citations

Total Citations (WOS):328

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