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Publications:

Block-Based Gradient Descent for Local Backlight Dimming and Flicker Reduction

Burini, N., Mantel, C., Nadernejad, E., Korhonen, J., Forchhammer, S. & Pedersen, J. M. 2014 In : *Journal of Display Technology*. 10, 1, p. 71-79

Publication: Research - peer-review › Journal article – Annual report year: 2013

Complex diffusion process for noise reduction

Nadernejad, E. & Barari, A. 2014 In : *Electrical Engineering*. 96, 2, p. 175-181

Publication: Research - peer-review › Journal article – Annual report year: 2013

Modeling the leakage of LCD displays with local backlight for quality assessment

Mantel, C., Korhonen, J., Pedersen, J. M., Bech, S., Nadernejad, E., Burini, N. & Forchhammer, S. 2014 In : *Proceedings of SPIE, the International Society for Optical Engineering*. 9014, 6 p., 90140M

Publication: Research - peer-review › Conference article – Annual report year: 2014

Adaptive deblocking and deringing of H.264/AVC video sequences

Nadernejad, E., Burini, N. & Forchhammer, S. 2013 *2013 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*. IEEE, p. 2508-2512 (I E E E International Conference on Acoustics, Speech and Signal Processing. Proceedings).

Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Adaptive local backlight dimming algorithm based on local histogram and image characteristics

Nadernejad, E., Burini, N., Korhonen, J., Forchhammer, S. & Mantel, C. 2013 In : *Proceedings of SPIE, the International Society for Optical Engineering*. 8652, p. 86520V 13 p.

Publication: Research - peer-review › Conference article – Annual report year: 2013

A new method for image segmentation based on Fuzzy C-means algorithm on pixonal images formed by bilateral filtering

Nadernejad, E. & Sharifzadeh, S. 2013 In : *Signal, Image and Video Processing*. 7, 5, p. 855-863

Publication: Research - peer-review › Journal article – Annual report year: 2013

A new modified fast fractal image compression algorithm

Salarian, M., Nadernejad, E. & MiarNaimi, H. 2013 In : *Imaging Science Journal*. 61, 2, p. 219-231

Publication: Research - peer-review › Journal article – Annual report year: 2012

Controlling Power Consumption for Displays With Backlight Dimming

Mantel, C., Burini, N., Nadernejad, E., Korhonen, J., Forchhammer, S. & Pedersen, J. M. 2013 In : *Journal of Display Technology*. 9, 12, p. 933-941

Publication: Research - peer-review › Journal article – Annual report year: 2013

Enhancing Perceived Quality of Compressed Images and Video with Anisotropic Diffusion and Fuzzy Filtering

Nadernejad, E., Korhonen, J., Forchhammer, S. & Burini, N. 2013 In : *Signal Processing: Image Communication*. 28, 3, p. 222-240

Publication: Research - peer-review › Journal article – Annual report year: 2013

Flicker Reduction in LED-LCDs with Local Backlight

Nadernejad, E., Mantel, C., Burini, N. & Forchhammer, S. 2013 *2013 IEEE 15th International Workshop on Multimedia Signal Processing (MMSP)*. IEEE, p. 312-316

Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

High-speed MRF-based segmentation algorithm using pixonal images

Nadernejad, E., Hassanpour, H. & Naimi, H. M. 2013 In : *Imaging Science Journal*. 61, 7, p. 592-600

Publication: Research - peer-review › Journal article – Annual report year: 2012

Improvement of nonlinear diffusion equation using relaxed geometric mean filter for low PSNR images

Nadernejad, E. 2013 In : *Electronics Letters*. 49, 7, p. 457-458

Publication: Research - peer-review › Journal article – Annual report year: 2013

Modeling Power-Constrained Optimal Backlight Dimming for Color Displays

Burini, N., Nadernejad, E., Korhonen, J., Forchhammer, S. & Wu, X. 2013 In : *Journal of Display Technology*. 9, 8, p. 656-665

Publication: Research - peer-review › Journal article – Annual report year: 2013

Processing Decoded Video for LCD-LED Backlight Display: Post processing of decoded video and local backlight dimming for LCD technology with LED-based backlight

Nadernejad, E., Forchhammer, S. & Korhonen, J. 2013 Kgs. Lyngby: Technical University of Denmark. 279 p.

Publication: Research › Ph.D. thesis – Annual report year: 2014

Quality assessment of images displayed on LCD screen with local backlight dimming

Mantel, C., Burini, N., Korhonen, J., Nadernejad, E. & Forchhammer, S. 2013 *2013 Fifth International Workshop on Quality of Multimedia Experience (QoMEX)*. IEEE, p. 48-49

Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Using anisotropic diffusion equations in pixon domain for image de-noising

Nadernejad, E., Forchhammer, S. & Sharifzadeh, S. 2013 In : *Signal, Image and Video Processing*. 7, 6, p. 1113-1124

Publication: Research - peer-review › Journal article – Annual report year: 2012

How to evaluate objective video quality metrics reliably

Korhonen, J., Burini, N., You, J. & Nadernejad, E. 2012 *2012 Fourth International Workshop on Quality of Multimedia Experience (QoMEX)*. IEEE, p. 57-62

Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Image denoising using new pixon representation based on fuzzy filtering and partial differential equations

Nadernejad, E. & Nikpour, M. 2012 In : *Digital Signal Processing*. 22, 6, p. 913-922

Publication: Research - peer-review › Journal article – Annual report year: 2012

Image Dependent Energy-Constrained Local Backlight Dimming

Burini, N., Nadernejad, E., Korhonen, J., Forchhammer, S. & Wu, X. 2012 *Proceedings of ICIP 2012*. IEEE, p. 2797-2800 (International Conference on Image Processing. Proceedings).

Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Improving performance of wavelet-based image denoising algorithm using complex diffusion process

Nadernejad, E., Sharifzadeh, S. & Korhonen, J. 2012 In : *Imaging Science Journal*. 60, 4, p. 208-218

Publication: Research - peer-review › Journal article – Annual report year: 2012

Speedup of optimization-based approach to local backlight dimming of HDR displays

Burini, N., Nadernejad, E., Korhonen, J., Forchhammer, S. & Wu, X. 2012 In : *Proceedings of SPIE, the International Society for Optical Engineering*. 8436, p. 84360B

Publication: Research - peer-review › Journal article – Annual report year: 2012

A Novel Pixon-Based Image Segmentation Process Using Fuzzy Filtering and Fuzzy C-mean Algorithm

Nadernejad, E. & Barari, A. 2011 In : *International Journal of Fuzzy Systems*. 13, 4, p. 350-357

Publication: Research - peer-review › Journal article – Annual report year: 2012

Artifact reduction of compressed images and video combining adaptive fuzzy filtering and directional anisotropic diffusion
Nadernejad, E., Forchhammer, S. & Korhonen, J. 2011 *2011 3rd European Workshop on Visual Information Processing (EUVIP)*. IEEE, p. 24-29

Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Wavelet-based Image Enhancement Using Fourth Order PDE

Nadernejad, E. & Forchhammer, S. 2011 *2011 IEEE 7th International Symposium on Intelligent Signal Processing (WISP)*. IEEE, p. 116-121

Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

EMPLOYING SENSOR NETWORK TO GUIDE FIREFIGHTERS IN DANGEROUS AREA

Koohi, H., Nadernejad, E. & Fathi, M. 2010 In : *International Journal of Engineering*. 32, 2, p. 191-202

Publication: Research - peer-review › Journal article – Annual report year: 2010

Edge Detection Techniques: Evaluations and Comparison

Nadernejad, E., Sharifzadeh, S. & Hassanpour, H. 2008 In : *Applied Mathematical Sciences*. 2, 31, p. 1507-1520

Publication: Communication › Journal article – Annual report year: 2008

Image Restoration Using A PDE-Based Approach

Nadernejad, E., Hassanpour, H. & Miarnaimi, H. 2007 In : *International Journal of Engineering*. 20, 3, p. 225-236

Publication: Research - peer-review › Journal article – Annual report year: 2007

Improving Quality Of Fractal Compressed Images

Nadernejad, E., Hassanpour, H. & Salarian, M. 2007 *International Conference on Machine Vision, 2007*. IEEE, p. 56-61

Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Projects:

Kvalitets optimering af High Dynamic Range billeder og display

Forchhammer, S., Korhonen, J., Burini, N., Nadernejad, E. & Melgaard Pedersen, J.

01/02/2012 → 30/04/2013

Project

Processing of coded video for LCD technology with LED-based backlight

Nadernejad, E., Forchhammer, S., Korhonen, J., Berger, M. S., Lauze, F. B. & Skodras, A.

01/10/2010 → 15/01/2014

Project: PhD