

Adaptively under sampled, circular histogram based image processing for rotation invariant coin detection

Mölder, Ago; Märten, Olev; Saar, Tõnis BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia 2012 / p. 137-140 : ill

Adaptively undersampled image processing for fast multiline laser detection

Mölder, Ago; Märten, Olev; Saar, Tõnis; Land, Raul 2013 IEEE 8th International Symposium on Intelligent Signal Processing (WISP 2013) : proceedings 2013 / p. 60-64 : ill [CD-ROM]

An image processing algorithm for decoding line type code

Juurma, Märt 8th International Symposium "Topical Problems in the Field of Electrical and Power Engineering" : Doctoral School of Energy and Geotechnology. II : [Pärnu, January 11-16, 2010 : proceedings] 2010 / p. 193-197 : ill

An investigation of image processing techniques for substrate classification based on dominant grain size using RGB images from UAV

Arif, Mohammad Shafi M.; Gülch, Eberhard; **Tuhtan, Jeffrey Andrew**; Thumser, Philipp; Haas, Christian International journal of remote sensing 2017 / p. 2639-2661 : ill <https://doi.org/10.1080/01431161.2016.1249309> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Application of hyperspectral imaging in waste paper sorting

Juurma, Märt; Sillat, Mari-Liis; Tamre, Mart 16th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology III" : Pärnu, Estonia, January 16-21, 2017 2017 / p. 197-200 : ill http://www.ester.ee/record=b4650094*est

Application of Leddar to optimize image processing operations

Mets, Oliver; Piigli, Ervin 16th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology III" : Pärnu, Estonia, January 16-21, 2017 2017 / p. 209-210 : ill http://www.ester.ee/record=b4650094*est

Classification and denoising of objects in TEM and CT images using deep neural networks = Objektide klassifitseerimine ja müratustamine TEM ja KT kujutistelt sügavate närvivõrkude abil

Gupta, Anindya 2018 <https://digi.lib.ttu.ee/i/?9954> https://www.ester.ee/record=b5056535*est

Coin recognition using line scan camera

Gavrijaševa, Alina; Märten, Olev; Land, Raul; Reidla, Marko BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 161-164 : ill

Coin validation by electromagnetic, acoustic and visual features = Mündi valideerimine elektromagnetiliste, akustiliste ja visuaalsete tunnuste järgi

Gavrijaševa, Alina 2015 <https://digi.lib.ttu.ee/i/?2408> https://www.ester.ee/record=b4480613*est

Comparative investigation of disintegrated WC-Co powders by the methods of sieving and image processing

Mikli, Valdek; Kulu, Priit; Tümanok, Aleksei; Käerdi, Helmo Materials Engineering - 98 : materials of the VII-th International Baltic Conference, September 24-25, Jurmala, Latvia 1998 / p. 9-13: ill

A comparison of different vector quantization schemes for image coding

Vafin, Renat; Skoglund, Mikael; Linden, Jan; Skoglund, Jan Telekommunikatsioon '98 : rahvusvahelise telekommunikatsioonipäeva konverentsi ettekannete materjalid, 15. mai 1998 1998 / lk. 12-19: ill

The concept of information technology for ensuring accessibility to art objects for the visually impaired persons

Hovorushchenko, Tetiana; Voichur, Oleg; Hovorushchenko, Olha; **Boyarchuk, Artem**; Zasornova, Iryna IntellTSIS 2024 : 5th International Workshop on Intelligent Information Technologies and Systems of Information Security, March 28, 2024 : proceedings 2024 / p. 208-222 <https://ceur-ws.org/Vol-3675/> [Article at Scopus](#) [Conference Proceedings at Scopus](#)

Cross-correlation-based image matching of coins

Gavrijaševa, Alina; Mölder, Ago; Märten, Olev; Kyrkou, C.; Theocharides, T. BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia 2012 / p. 319-322 : ill

Cross-correlation-based image matching of coins

Gavrijaševa, Alina; Mölder, Ago; Märten, Olev Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK kuuenda aastakonverentsi artiklite kogumik : 3.-5. oktoobril 2012, Laulasmaa 2012 / p. 17-20 : ill

Databases and Information Systems : 14th International Baltic Conference, DB&IS 2020, Tallinn, Estonia, June 16-19, 2020 : Proceedings

2020 <https://doi.org/10.1007/978-3-030-57672-1>

Deep learning for detection of pavement distress using nonideal photographic images

Tepljakov, Aleksei; Riid, Andri; Pihlak, Rene; Vassiljeva, Kristina; Petlenkov, Eduard 2019 42nd International Conference on Telecommunications and Signal Processing (TSP) 2019 / p. 195-200 : ill <https://doi.org/10.1109/TSP.2019.8769086>

Dependence of multifractal analysis parameters on the darkness of a processed image

Martsepp, Merike; Laas, Tõnu; Laas, Katrin; **Priimets, Jaanis**; Tõkke, Siim; **Mikli, Valdek** Chaos, Solitons & Fractals 2022 / art. 111811 <https://doi.org/10.1016/j.chaos.2022.111811> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Die Lösung der Elementaraufgaben der Bildverarbeitung mit dem Rechner

Ajaots, Maido; Tamre, Mart; Põldmaa, Veiko OST-96 Symposium on Machine Design, [Stockholm], May 13-14, 1996 : program, abstracts 1996 / [1] S

Digitaalne signaali- ja pilditöötlus : harjutused

Ferenets, Rain 2007 http://www.ester.ee/record=b2244506*est

Digitaalne signaali- ja pilditöötlus : loengukonspekt

Lipping, Tarmo 2007 http://www.ester.ee/record=b2234022*est

Digitaalne signaalitöötlus : valitud FIR-filtrite disainimine

Ferenets, Rain 2011 http://www.ester.ee/record=b2737258*est

A digital measuring module for tool wear estimation

Otto, Tauno; Kurik, Lembit Annals of DAAAM for 2002 & proceedings of the 13th International DAAAM Symposium "Intelligent Manufacturing & Automation : Learning from Nature" : Vienna University of Technology, 23-26th October 2002, Vienna, Austria, European Union 2002 / p. 397-398 : ill

A digital measuring system for robot welding quality estimation

Otto, Tauno; Kurik, Lembit; Naams, Invar Proceedings of the 3rd International Conference Industrial Engineering - New Challenges to SME : 25-27 April 2002, Tallinn, Estonia 2002 / p. 128-129 : ill

Extraction of the variable width laser line

Mõlder, Ago; Märten, Olev; Saar, Tõnis; Land, Raul BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 157-160 : ill

Feasibility study : a DM3730-based data acquisition and processing solution

Mõlder, Ago; Reidla, Marko; Märten, Olev; Land, Raul EDERC 2012 : proceedings of the 5th European DSP in Education & Research Conference : 13-14 September 2012, Amsterdam, The Netherlands 2012 / p. 58-61
<https://ieeexplore.ieee.org/document/6532225>

Fingerprint recognition for distorted image applications using three-rate hybrid Kohonen neural network

Astrov, Igor; Tatarly, Sergei; Tatarly, Svetlana; **Rüstern, Ennu** Mathematical Methods and Computational Techniques in Research and Education : 7th WSEAS International Conference on Wavelet Analysis and Multirate Systems (WAMUS'07) : Arcachon, France, October 13-15, 2007 2007 / p. 122-126 <https://dl.acm.org/doi/abs/10.5555/1974885.1974887>

Fingerprint recognition for varied degrees of image distortion using three-rate hybrid Kohonen neural network

Astrov, Igor; Tatarly, Sergei; Tatarly, Svetlana Proceedings of 2008 International Conference on Audio, Language and Image Processing (ICALIP 2008 : Shanghai, China, July 7-9, 2008). 1 2008 / p. 363-369 <https://ieeexplore.ieee.org/document/4590098>

A 48 by 48 CMOS cellular neural network chip for image processing

Paasio, Ari; Kananen, Asko; Halonen, Kari; Porra, Veikko BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9, 1998, Tallinn, Estonia : proceedings 1998 / p. 87-88

FPGA based system for video compression and transmission over bluetooth

Gorev, Maksim; Ellervee, Peeter 53rd IEEE International Midwest Symposium on Circuits and Systems : Seattle, Washington, USA, August 1-4, 2010 : proceedings 2010 / p. 367-370 : ill <https://ieeexplore.ieee.org/document/5548853>

Golbaghi, F. K.; Eslahchi, M. R.; Rezghi, M. Image denoising by a novel variable-order total fractional variation model : [review]

Henno, Jaak Zentralblatt MATH 2021 / 1 p <https://zbmath.org/?q=an%3A1472.94006>

Hyperspectral image band selection using pooling

Liyanage, Dhanushka Chamara; Hudjakov, Robert; Tamre, Mart 15th International Conference Mechatronic Systems and Materials : MSM'2020 : The book of selected, peer reviewed papers presented at the 15th International Conference Mechatronic Systems and Materials MSM'2020, July 1-3, 2020, Bialystok, Poland 2020 <https://doi.org/10.1109/MSM49833.2020.9201714>

Hyperspectral imaging methods improve RGB image semantic segmentation of unstructured terrains

Liyanage, Dhanushka Chamara; Hudjakov, Robert; Tamre, Mart 15th International Conference Mechatronic Systems and Materials : MSM'2020 : The book of selected, peer reviewed papers presented at the 15th International Conference Mechatronic Systems and Materials MSM'2020, July 1-3, 2020, Bialystok, Poland 2020 / 5 p. ill <https://doi.org/10.1109/MSM49833.2020.9201738>

Image based counterfeit coin validation

Gavrijaševa, Alina; Märten, Olev BEC 2014 : 2014 14th Biennial Baltic Electronics Conference : proceedings of the 14th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 6-8, 2014, Tallinn, Estonia 2014 / p. 153-156 : ill

Image processing in the woodworking industry : challenges, solutions and platforms

Mölder, Ago; Märten, Olev Elektronika ir elektrotehnika = Electronics and electrical engineering 2011 / p. 43-46 : ill

Image processing solutions for precise road profile measurement systems = Pilditöötluse lahendused täpsetele tee profiili mõõtesüsteemidele

Mölder, Ago 2015 https://www.ester.ee/record=b4476678*est

Improved interpolation kernels for super resolution algorithms

Rasti, Pejman; **Orlova, Olga; Tamberg, Gert**; Ozcinar, Cagri 2016 Sixth International Conference on Image Processing Theory, Tools and Applications : IPTA 2016, Oulu, Finland, December 2016 2017 / [6] p. : ill <https://doi.org/10.1109/IPTA.2016.7820980>

Influence of non-refrigerated urine storage time on stability of urine particles

Pikta, Marika; Kleinson, Inge; Titova, Tatjana; Mishalagina, Polina; Dovgi, Jelena XVII Baltic Congress of Laboratory Medicine, September 5-7, 2024, Vilnius 2024 / p. 34 https://zurnalas.lmd.lt/sites/default/files/leidinys_balm_2024_spec_redaguotas.pdf

Infotehnoloogia. Sõnastik. Osa 30, Raalnägemine

Hanson, Vello; Tavast, Arvi; **Kalja, Ahto; Võhandu, Leo** 2003 https://www.ester.ee/record=b1763027*est

IR technology and image processing applied to flow investigation

Lähdeniemi, Matti; Ekholm, Ari; **Koppel, Tiit; Ainola, Leo** Machine vision news 2002 / p. 12

Kerra püütud valgus

Strandberg, Marek Inseneeria 2015 / lk. 10 : fot https://artiklid.elnet.ee/record=b2748895*est

Laser line detection with sub-pixel accuracy

Mölder, Ago; Märten, Olev; Saar, Tõnis; Land, Raul Elektronika ir elektrotehnika = Electronics and electrical engineering 2014 / p. 132-135 : ill <https://doi.org/10.5755/j01.eee.20.5.7114> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Lisamoodulid XV, XVI, XVII, XVIII

Luberg, Ago; Antoi, Meelis; Kivisalu, Einar; Lorenz, Birgy Tarkvaraarendus : informaatika valikkursus ja valikmoodulid gümnaasiumile 2023 <https://web.htk.tlu.ee/digitaru/tarkvara2/>

Liu, Chaoyu; Qiao, Zhonghua; Zhang, Qian. Multi-phase image segmentation by the Allen-Cahn Chan-Vese model : [review]

Henno, Jaak Zentralblatt MATH 2024 / 1 p. <https://zbmath.org/1545.94010>

Liu, Feng; Yan, Wei Qi. Visual cryptography for image processing and security. Theory, methods, and applications. Cham: Springer. xvi, 143 p. (2014) : [review]

Henno, Jaak Zentralblatt MATH 2015 / [1] p

Low-quality fingerprint recognition using three-rate hybrid Kohonen neural network [Electronic resource]

Astrov, Igor; Tatarly, Sergei; Tatarly, Svetlana; **Rüstern, Ennu** Proceedings of the 6th International Conference on Information, Communications and Signal Processing : ICICS 2007 : Singapore, December 10-13, 2007 2007 / [5] p. [CD-ROM] <https://ieeexplore.ieee.org/document/4449586>

Die Lösung der Elementaraufgaben der Bildverarbeitung mit dem Rechner

Ajaots, Mairo; Põldmaa, Veiko; Tamre, Mart OST-96 Symposium on Machine Design, [Stockholm], May 13-14, 1996 : proceedings 1996 / p. 113-119: ill https://www.ester.ee/record=b1033950*est

Masinõpe toetab maksimaalselt kiiret ja tõrgeteta tootmist

Alvela, Ain ohtuleht.ee 2024 [Masinõpe toetab maksimaalselt kiiret ja tõrgeteta tootmist](https://www.ester.ee/record=b1033950*est)

Matrix Profile based anomaly detection in streaming gait data for fall prevention

Gerazov, Branislav; Hadjieva, Elena; **Krivošei, Andrei; Sanchez, Fiorella Ines Soto; Rostovski, Jakob; Kuusik, Alar; Alam,**

Muhammad Mahtab 2023 30th International Conference on Systems, Signals and Image Processing (IWSSIP) 2023 / p. 1-5
<https://doi.org/10.1109/IWSSIP58668.2023.10180243>

Multirate approaches for engineering applications : computational strategies

Astrov, Igor 2015 https://www.ester.ee/record=b4533492*est

NB-IoT based visual smart waste management system

Zulqarnain Khan, Sikandar; **Hein, Haigo; Alam, Muhammad Mahtab; Le Moullec, Yannick; Päränd, Sven** 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 6 p. : ill <https://doi.org/10.1109/BEC56180.2022.9935601>

A new low-complexity patch-based image super-resolution

Rasti, Pejman; Nasrollahi, Kamal; **Orlova, Olga; Tamberg, Gert**; Ozcinar, Cagri; Moeslund, Thomas B.; Anbarjafari, Gholamreza IET computer vision 2017 / p. 567-576 : ill <https://doi.org/10.1049/iet-cvi.2016.0463> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Pavement distress detection with deep learning using the orthoframes acquired by a mobile mapping system

Riid, Andri; Lõuk, Roland; Pihlak, Rene; Tepljakov, Aleksei; Vassiljeva, Kristina Applied sciences 2019 / art. 4829, 22 p. : ill <https://doi.org/10.3390/app924829> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Pildinduse matemaatilistest aspektidest

Tamberg, Gert Aastaraamat 2002-2003 / Eesti Matemaatika Selts 2007 / lk. 30-60 : ill https://artiklid.elnet.ee/record=b1072770*est
https://www.ester.ee/record=b1226018*est

Pilditöötlus Photoscape Editoriga

Anderson, Andrus E-õppe uudiskiri 2009 / lk. 16-20 : ill

Processing of distorted fingerprints with use of three-rate hybrid kohonen neural networks

Astrov, Igor; Tatarly, S.; Tatarly, S.; **Rüstern, Ennu** Proceedings of the 8th International Conference on Signal Processing : ICSP'06 : Guilin, China, November 16-20, 2006 2006 / p. 2383-2386 <https://ieeexplore.ieee.org/document/4129338>

Processing of distorted fingerprints with use of three-rate hybrid kohonen neural networks [Electronic resource]

Astrov, Igor; Tatarly, S.; Tatarly, S.; **Rüstern, Ennu** Proceedings of the 8th International Conference on Signal Processing : ICSP'06 : Guilin, China, November 16-20, 2006 2006 / [4] p. [CD-ROM] <https://ieeexplore.ieee.org/document/4129338>

Reducible dictionaries for single image super-resolution based on patch matching and mean shifting

Rasti, Pejman; Nasrollahi, Kamal; **Orlova, Olga; Tamberg, Gert**; Moeslund, Thomas B.; Anbarjafari, Gholamreza Journal of electronic imaging 2017 / p. 023024-1 - 023024-8 : ill <https://doi.org/10.1117/1.JEI.26.2.023024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Simple analysis of gel images with IOCBIO Gel

Kütt, Jaak; Margus, Georg; Kask, Lauri; Rätsepso, Triinu; Soodla, Kärol; Bernasconi, Romain; Birkedal, Rikke; Järv, Priit; Laasmaa, Martin; Vendelin, Marko BMC Biology 2023 / art. 225 <https://doi.org/10.1186/s12915-023-01734-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Smart terrain perception using hyperspectral imaging = Hüperspektraal-pilditehnika maastiku nutikaks tajumiseks

Liyanage, Dhanushka Chamara 2021 https://www.ester.ee/record=b5472281*est <https://digikogu.taltech.ee/et/Item/e94dc880-2e42-4203-8ddf-9f26b4b0f301> <https://doi.org/10.23658/taltech.58/2021>

Song, Wei; Zheng, Yu; Fu, Chong; Shan, Pufang. A novel batch image encryption algorithm using parallel computing : [review]

Henno, Jaak Zentralblatt MATH 2020 / 1 p <https://www.zbmath.org/?q=an:07333047>

Statistical methods for ultrasound image segmentation = Ultrahelipiltide segmenteerimine statistiliste meetoditega

Li, Lin 2015 https://www.ester.ee/record=b4526723*est

Teeme fotokaga video

Jaanus, Martin Praktiline Arvutikasutaja 2007 / 10, lk. 24 https://artiklid.elnet.ee/record=b1060122*est

This fish does not exist : fish species dataset augmentation using stable diffusion

Dubrovinskaya, Elizaveta; Tuhtan, Jeffrey Andrew OCEANS 2023 - Limerick 2023 / 6 p.
<https://doi.org/10.1109/OCEANSLimerick52467.2023.10244720>

Three-dimensional cell counting based on two dimensional cross-section images

Anton, Johan; Saar, Tõnis Elektronika ir elektrotehnika = Electronics and electrical engineering 2011 / p. 89-94
<https://eejournal.ktu.lt/index.php/elt/article/view/455>

A two-stream context-aware ConvNet for pavement distress detection

Lõuk, Roland; Tepljakov, Aleksei; Riid, Andri 2020 43rd International Conference on Telecommunications and Signal Processing : TSP 2020, Milan, Italy, July 7-9, 2020 2020 / p. 270-273 : ill <https://doi.org/10.1109/TSP49548.2020.9163538>

Using STLs for effective in-field test of GPUs

Rodriguez Condia, Josie E.; Da Silva, Felipe Augusto; **Bagbaba, Ahmet Cagrl**; Guerrero-Balaguera, Juan-David; Hamdioui, Said; Sauer, Christian; Reorda, Matteo Sonza IEEE Design and Test 2023 / p. 109-117 <https://doi.org/10.1109/MDAT.2022.3188573> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Variable-resolution image processing for validation of coins

Märtens, Olev; Saar, Tõnis; Gavrijaševa, Alina; Mölder, Ago 2011 IEEE 7th International Symposium on Intelligent Signal Processing (WISP) : Floriana, Malta, September 19-21, 2011 : proceedings 2011 / p. 176-179: ill <https://ieeexplore.ieee.org/document/6051711>

Waste paper sorting using imaging spectroscopy

Põlder, Ahti; Juurma, Märt; Tamre, Mart 13th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 14-19, 2013 2013 / p. 283-284 : ill

What can self-organizing maps reveal about the structure of emotion concepts : an Estonian case study

Vainik, Ene; **Kirt, Toomas** First SALC Conference : First Conference of the Swedish Association for Language and Cognition (SALC) : Lund University, Nov. 29-Dec. 1, 2007 : book of abstracts 2007 / p. 106-107

Visuaalkujutise töötlemine arvutis. 5

Järg, Andrus; **Penjam, Jaan** Arvutustehnika ja Andmetöötlus 1995 / 2, lk. 14-24: ill

γ and α -(Fe, Ni) phase characterization using image processing and effect of phase formation on the P/M Fe(100-x)Ni(x) alloys properties

Singh, Neera; Pandey, Vaibhav; Srivastava, Gargi; Banerjee, Supriya; Parkash, Om; Kumar, Devendra Materials chemistry and physics 2020 / art. 122794 <https://doi.org/10.1016/j.matchemphys.2020.122794> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)