

Publikationen

Zeitschriftenartikel und Konferenzbeiträge (Auswahl)

Zeitschriftenartikel

Optically tracked and 3D printed haptic phantom hand for surgical training system

Maier, Johannes, Maximilian Weiherer, Michaela Huber, and Christoph Palm
Quantitative Imaging in Medicine and Surgery 10.2, pp. 340–355. 2020

Real-time use of artificial intelligence in the evaluation of cancer in Barrett's oesophagus

Ebigbo, Alanna, Robert Mendel, Andreas Probst, Johannes Manzeneder, Friederike Prinz, Luis A. de Souza, João P. Papa, Christoph Palm, and Helmut Messmann
Gut, online first. *BMJ Publishing Group*, 2019

Computer-aided diagnosis using deep learning in the evaluation of early oesophageal adenocarcinoma

Ebigbo, Alanna, Robert Mendel, Andreas Probst, Johannes Manzeneder, Luis A. de Souza, João P. Papa, Christoph Palm, and Helmut Messmann
Gut 68, pp. 1143–1145. *BMJ Publishing Group*, 2019

A technical review of artificial intelligence as applied to gastrointestinal endoscopy: clarifying the terminology

Ebigbo, Alanna, Christoph Palm, Andreas Probst, Robert Mendel, Johannes Manzeneder, Friederike Prinz, Luis A de Souza, João P Papa, Peter Siersema, and Helmut Messmann
Endoscopy International Open 7.12, E1616–E1623. *Georg Thieme Verlag*, 2019

Imitating human soft tissue on basis of a dual-material 3D print using a support-filled metamaterial to provide bimanual haptic for a hand surgery training system

Maier, Johannes, Michaela Huber, Maximilian Weiherer, and Christoph Palm
Quantitative Imaging in Medicine and Surgery 9.1, pp. 30–42. *AME Publishing Company*, 2019

Force-feedback assisted and virtual fixtures based K-wire drilling simulation

Maier, Johannes, Jerome Perret, Michaela Huber, Martina Simon, Stephanie Schmitt-Rüth, Thomas Wittenberg, and Christoph Palm
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Barrett's esophagus analysis using infinity Restricted Boltzmann Machines

Passos, Leandro A., Luis A. de Souza, Robert Mendel, Alanna Ebigbo, Andreas Probst, Helmut Messmann, Christoph Palm, and João P. Papa
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Learning visual representations with optimum-path forest and its applications to Barrett's esophagus and adenocarcinoma diagnosis

Souza, Luis A. de, Luis C.S. Afonso, Alanna Ebigbo, Andreas Probst, Helmut Messmann, Robert Mendel, Christian Hook, Christoph Palm, and João P. Papa
Neural Computing and Applications, pp. 1–17. *SpringerNature*, 2019

A Deep Learning Algorithm for Prediction of Age-Related Eye Disease Study Severity Scale for Age-Related Macular Degeneration from Color Fundus Photography

Graßmann, Felix, Judith Mengelkamp, Caronline Brandl, Sebastian Harsch, Martina E. Zimmermann, Birgit Linkohr, Annette Peters, Iris M. Heid, Christoph Palm, and Bernhard H.F. Weber
Ophthalmology 125.9, pp. 1410–1420. *Elsevier*, 2018

A survey on Barrett's esophagus analysis using machine learning

Souza, Luis A. de, Christoph Palm, Robert Mendel, Christian Hook, Alanna Ebigbo, Andreas Probst, Helmut Messmann, Silke Weber, and Joao P. Papa
Computers in Biology and Medicine 96, pp. 203–213. *Elsevier*, 2018

Current standards and new concepts in MRI and PET response assessment of antiangiogenic therapies in high-grade glioma patients

Hutterer, Markus, Elke Hattingen, Christoph Palm, Martin Andreas Proescholdt, and Peter Hau
Neuro-oncology 17.6, pp. 784–800. *Oxford University Press*, 2015

IMAGENA: image generation and analysis—an interactive software tool handling LA-ICP-MS data

Osterholt, Tobias, Dagmar Salber, Andreas Matusch, J Sabine Becker, and Christoph Palm
International Journal of Mass Spectrometry 307.1, pp. 232–239. *Elsevier*, 2011

Bioimaging of metals by laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS)
Becker, J Sabine, Miroslav Zoriy, Andreas Matusch, Bei Wu, Dagmar Salber, Christoph Palm, and J Susanne Becker
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Towards ultra-high resolution fibre tract mapping of the human brain-registration of polarised light images and reorientation of fibre vectors
Palm, Christoph, Markus Axer, David Gräßel, Jürgen Dammers, Johannes Lindemeyer, Karl Zilles, Uwe Pietrzyk, and Katrin Amunts
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Evaluation of registration strategies for multi-modality images of rat brain slices
Palm, Christoph, Andrea Vieten, Dagmar Salber, and Uwe Pietrzyk
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Color texture classification by integrative co-occurrence matrices
Palm, Christoph
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Colour texture analysis for quantitative laryngoscopy
Ilgner, Justus FR, Christoph Palm, Andreas G Schütz, Klaus Spitzer, Martin Westhofen, and Thomas M Lehmann
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Color line search for illuminant estimation in real-world scenes
Lehmann, Thomas M and Christoph Palm
Journal of the Optical Society of America (JOSA) A 18.11, pp. 2679–2691. *Optical Society of America*, 2001

Konferenzbeiträge (peer-reviewed, Auswahl)

Semantic Lung Segmentation Using Convolutional Neural Networks
Chang, Ching-Sheng, Lin Jin-Fa, Ming-Ching Lee, and Christoph Palm
Bildverarbeitung für die Medizin 2020, pp. 75–80, 2020

Retrospective Color Shading Correction for Endoscopic Images
Weiherer, Maximilien, Martin Zorn, Thomas Wittenberg, and Christoph Palm
Bildverarbeitung für die Medizin 2020, pp. 14–19, 2020

Force-Feedback-assisted Bone Drilling Simulation Based on CT Data
Maier, Johannes, Michaela Huber, Uwe Katzky, Jerome Perret, Thomas Wittenberg, and Christoph Palm
Bildverarbeitung für die Medizin 2018, pp. 291–296, 2018

Barrett's Esophagus Identification Using Color Co-occurrence Matrices
Souza, Luis J. de, Alanna Ebigbo, Andreas Probst, Helmut Messmann, Joao P. Papa, Robert Mendel, and Christoph Palm
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Barrett's Esophagus Analysis Using Convolutional Neural Networks
Mendel, Robert, Alanna Ebigbo, Andreas Probst, Helmut Messmann, and Christoph Palm
Bildverarbeitung für die Medizin 2017, pp. 80–85, 2017

Barrett's Esophagus Analysis Using SURF Features
Souza, Luis J. de, Christian Hook, Joao P. Papa, and Christoph Palm
Bildverarbeitung für die Medizin 2017, pp. 141–146, 2017

Interactive Computer-assisted Approach for Evaluation of Ultrastructural Cilia Abnormalities
Palm, Christoph, Heiko Siegmund, Matthias Semmelmann, Claudia Grafe, Matthias Evert, and Josef A. Schroeder
Proc. SPIE 9785, *Medical Imaging 2016: Computer-Aided Diagnosis*, 97853N, 2016

GraphMIC - Medizinische Bildverarbeitung in der Lehre
Szalo, Alexander Eduard, Alexander Zehner, and Christoph Palm
Bildverarbeitung für die Medizin 2015, pp. 395–400, 2015

Porting FSL-Fastv4 to GPGPUs - Data-Parallel MRI Brain Segmentation in Clinical Use
Weber, Joachim, Christian Doenitz, Alexander Brawanski, and Christoph Palm
Bildverarbeitung für die Medizin 2015, pp. 389–394, 2015

GraphMIC: Easy Prototyping of Medical Image Computing Applications
Zehner, Alexander, Alexander Eduard Szalo, and Christoph Palm
Interactive Medical Image Computing (IMIC) Workshop, MICCAI 2015, 2015