

INKA announces three Mega Journal acceptances with three different research topics — NATURE Scientific Reports / PLOS ONE / IEEE Journal of Biomedical and Health Informatics

The chair of Intelligent Catheters and Image Guided Therapies (www.inka-md.de) at the Otto-von-Guericke-University (www.ovgu.de) is happy to announce that three of the independent research topics of INKA have been accepted by the largest (NATURE Scientific Reports — NSR — Impact factor 4.259), second largest (PLOS ONE - Impact Factor 2.806), and the third (out of 57) highest ranked Health Information Management journal (IEEE Journal of Biomedical and Health Informatics— J-BHI — Impact Factor 3.85).

The INKA team of Prof. Michael Friebe already received a research price last year for its work on audio emission measurements in combination with the medical device - tissue interactions in Minimal Invasive Surgeries (MIS). The continued research, headed by the Post-Doc Alfredo Illanes was now accepted by the Editors of NSR titled “*Novel clinical device tracking and tissue characterization using proximally placed audio signal acquisition and processing*” and co-authored by Axel Boese, Ivan Maldonado, Ali Pashazadeh, Anna Schaufler, Nassir Navab (TU München), and Michael Friebe. The exciting results of PhD student Rainer Landes on Photodynamic Therapies (PDT) with the title “*Fiber-optic filter fluorometer for emission detection of Protoporphyrin IX and its direct precursors – A preliminary study for improved Photodynamic Therapy applications*” was already his second journal paper as part of his doctoral thesis work. Co-authored by Alfredo Illanes, Daniela Goeppner (University Giessen), Harald Gollnick (OVGU Faculty of Medicine), and Michael Friebe this paper shows ways on how to make local and personalised PDT therapies more effective also for catheter based applications inside the human body. PLOS ONE will publish the paper in the next couple of weeks.

And lastly the joint research between the group of Prof. Debdoot Sheet of the Indian Institute of Technology in Kharagpur lead to the J-BHI paper titled “*Anatomical Structure Segmentation in Ultrasound Volumes using Cross Frame Belief Propagating Iterative Random Walks*” authored by Debarghya China, Alfredo Illanes (INKA), Prabal Poudel (INKA), Michael Friebe (INKA), Pabitra Mitra, and Debdoot Sheet.

All papers are open access and available to everyone.

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