Special Issue

Advances in Cancer Imaging: Evolving Role of Radiomics and Artificial Intelligence

Message from the Guest Editor

Non-invasive tumor diagnosis and classification has long been a crucial issue in clinical decision making. Among many methods available, imaging examinations via ultrasound, CT, MRI, PET, or SPECT are commonly adopted which provide anatomical/functional information on the tumor. Recently, radiomics and artificial intelligence (AI) provide new possibilities for imaging data interpretation and form an automatic pipeline for disease classification or segmentation. Radiomics, empowered by machine learning algorithms, can classify the tumor lesions only based on anatomical scans. Auto-segmentation by AI may facilitate early diagnoses and generate masks for radiomic analyses. Radiomics or AI studies based on multimodality imaging data (MRI plus PET, MRI plus CT, and so on) yield a better predictive performance. Hopefully, technically novel, clinically relevant, and meticulously designed studies on cancer imaging contribute to improved patient care.

Guest Editor

Dr. Shuncong Wang

Laboratory of Lipid Metabolism and Cancer, Biomedical Group, Campus Gasthuisberg, KU Leuven, 3000 Leuven, Belgium

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Editor-in-Chief

Prof. Dr. Andreas Kjaer
Department of Clinical Physiology, Nuclear Medicine & PET National University Hospital, Rigshospitalet, University of Copenhagen, Blegdamsvej 9, DK-2100 Copenhagen, Denmark

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