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강연제목: 최신 스펙트럴 CT 이미징 및 응용
(Recent spectral CT imaging and application)

Abstract:

As various diseases increase due to the aging of the population, the development of advanced medical imaging technology is greatly required for the improvement of public health and accurate diagnosis of diseases. Recently, in disease diagnosis using CT, multi-energy imaging technology has been applied to clinical practice, providing a new opportunity to increase diagnostic accuracy. In addition, various studies are being conducted to improve image quality and diagnostic accuracy through AI-based image processing, such as low-dose, high-resolution, noise removal, artifact reduction, and material decomposition. Therefore, through this lecture, I would like to introduce the general contents of the recent technology trends and clinical applications of spectra CT imaging.

Brief Biosketch

Dr. Kihong Son has been working since 2020 as a Senior Researcher in the ETRI Medical Information Research Section. He obtained bachelor's degree from the Department of Radiology at Yonsei University, master's degree from the Department of Radiological Cancer Medicine at UST, and PhD (2017) from the Department of Nuclear and Quantum Engineering at KAIST. He conducted research training at The University of Chicago (2013-2014) during the Ph.D. He served as a senior researcher at the Health & Medical Equipment Business of Samsung Electronics (2017-2020) and worked on CT medical imaging and AI model development. He is currently conducting R&D projects related to AI-based CBCT medical imaging reconstruction and multi-energy imaging processing.