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기타소속: -

강연제목: 의료 정보 & 의학 빅데이터를 활용한 인공지능 연구 및 다양한 응용 /

Artificial Intelligence Research and Various Applications using Medical Information & Big
Data

Abstract:

As artificial intelligence technology has been developed and advanced, it has been applied to a variety of fields, from computer vision processing to natural language processing. In line with this trend, various studies utilizing AI technology have been conducted in the medical field. According to BIS research, as of 2018, Computed Tomography (CT) accounted for the highest proportion of medical AI technology application as an imaging device at 45.8%, followed by Magnetic Resonance Image (MRI) at 25.6%. Furthermore, as of 2018, image analysis accounted for the highest proportion of medical AI applied tasks at 70.4%. This paper will examine medical AI reconstruction techniques for low-dose X-ray CT systems in internal tomography imaging and medical AI analysis and detection techniques for unsuitable mammography images. The medical AI technologies applied to each medical imaging device showed better performance than existing technologies.

Brief Biosketch

2019 KAIST (공학박사)

2019-2020 박사후연구원, Los Alamos National Laboratory, NM, USA

2020-2022 박사후연구원, Harvard Medical School and Massachusetts General Hospital, MA, USA

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