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(국문/영문)강연제목: 의료 영상과 인공지능을 이용한 암의 진단과 예후 예측 / Cancer diagnosis and prognosis prediction using medical images and artificial intelligence

Abstract(영문):

Recent advancements in imaging technology and analysis methods have led to an analytic framework known as radiomics. This framework extracts comprehensive high-dimensional features from medical imaging data and performs data mining to build analytical models for improved clinical decision-support. Its features include many categories spanning hand-crafted feature (1st order statistics, texture, shape etc.) and deep feature; thus, it can provide abundant information for precision medicine. Many studies of radiomics have shown promising results in the assessment of pathological features, prediction of treatment response, and stratification of risk groups. Herein, we aimed to provide a general overview of radiomics procedures, discuss technical issues and explain various clinical applications.

Brief Biosketch (간단한 이력, 연구/대외활동 소개,국문/영문)

Dr. Hwan-ho Cho is currently an assistant professor at the department of medical artificial intelligence at Konyang University since 2022. He got his Ph.D. from Sungkyunkwan University at Suwon, Republic of Korea in 2021. He had postdoc training under Dr. Hyunjin Park at Sungkyunkwan University. During his Ph.D. course and postdoc at Sungkyunkwan University, he focused on the radiomics based interpretable medical artificial intelligence, especially on cancer diagnosis, chemotherapy response and patients' prognosis prediction models. His current research topics include tumor habitat analysis, cerebrovascular structure analysis and transfer learning applications using medical imaging-based artificial intelligence.