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Topic: Machine Learning & Radiomics

Link or Room: C407

Abstract:

Digital revolution is started with the invention of computers. Computers automate the routine and systematic procedures in daily life. They decrease process error and need to human power for tasks. Inclusion of them in our daily life, bring many transformative technologies. One of such technologies is artificial intelligence. Artificial intelligence, shortly AI, is a broad notion which is usage of computers to model intelligent systems with minimal human effects, including manpower and coginitive abilities. Virtual branch of artificial intelligence is machine learning. Machine learning is a field of artificial intelligence that focuses on developing algorithms and models that allow computers to learn from data and improve their performance on specific tasks without being explicitly programmed. The application of AI is represented by mathematical algorithms, their performance is increased with experience. In this presentation, relationship between radiomics and machine learning will be given.