

## 3rd Global Meeting on ONCOLOGY AND RADIOLOGY

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**Introduction to Artificial Intelligence Radiomics.****Samar El-Farra***Radiographers Society of Emirates - RASE. Board of Directors chairperson, UAE.*

**Background:** In this presentation, Artificial intelligence (AI) main knowledge and introduction to its components will be reviewed. As a focal point of attention in the medical imaging world, the linkage between the AI characteristics and tasks of AI in biomedical image analysis will be established. Radi-Omics has two components, radiology and Omics. Omics-based medicine and systems pathology are used for personalized and predictive medicine. Currently, there is a growing trend that couples AI with Radiomics (AIR) in medical imaging to extract more data from CT /MRI /PETCT /Plain X-Rays and Ultrasound that could possibly indicate patient specific diagnostic/prognostic information. Literature reports AIR statistical models to have promising prospects in more patient specific individualized diagnosis and management of, the brain, pituitary gland, lungs, heart, liver, kidneys and prostate. It is important for radiologists/radiographers to have at least the basic understanding of the AIR workflows, pre-requisites and challenges. A case review with focus on Chest diseases will be also evaluated and a conclusion on how to interpret reported AIR efficacy will eventually be provided.

**Biography**

Samar El-Farra is a Senior Fellow of the Higher education – UK, and an CMRITO member-Canada. She has completed terminal degrees in (CT) from Charles Strut University and in Artificial Intelligence For Radiographers from City University. She is the institutional manager of student assessment at the Higher Colleges of Technology, the Board of Directors chairperson at the Radiographers Society of Emirates and the representative council member to the ISRRT. She has published and presented more than 150 papers/presentations on higher education and radiography in reputed journals/conferences and has been serving as an editorial board chairperson for more than five years.

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