



**UAA Professional Development Seminar Series** 

## Al in Medical Applications with Small Datasets and Limited Labels

## Presented by Syed Muhammad Anwar Associate Professor UET Taxila

Recent advancements in machine learning are impacting the future of medical applications. The convergence of data science, radiology, computer science and clinical knowledge is opening up new avenues of research and innovation are finding ways to solve clinical problems using automated systems, which never existed before. Whitenowhave an abundance of such methods, the question we still face is how many of these would be able to translature not appropriate) toactual clinical practice. The presentation willwalk through a wider spectrum of medical image analysis problems benefiting from such advancements in artificial intelligence. We will also explore a large area of clinical practice that relies dimensional physiological data v such such as electroencephalography and electrocardiography which still mains to take full benefit of these advancements. In summating, presentation will highlight be building blocks for making the development of automatered intelligent systems fit for clinical practice

Syed Muhammad Anwareceiveda BSc. in Computer Engineering willbnors from University of Engineeing and Technology (UET) Taxila, Pakistan in 2000 5 aMSc. in Data Communications with Distinction and PhD in Electronic and Electrical Engineering from the University of Sheffield, UK in 2007 and 2012 respectively. He is servaing Associate Professor at Department of Software Engineering, UET Taxila. Currently, he is at the Center for Research in Conquer Vision, University of Central Florida, 20 Fulbright Fellowship. His research interests include machine learning, medical imaging, and homomorputer interaction. He has uthored more than 70 peereviewed articles and serves as Editor and reviewer at prestigious publications such as IEEE Access, IEEE JBHI, Note that the Center for Research interests include machine from various organtions to support his research.

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