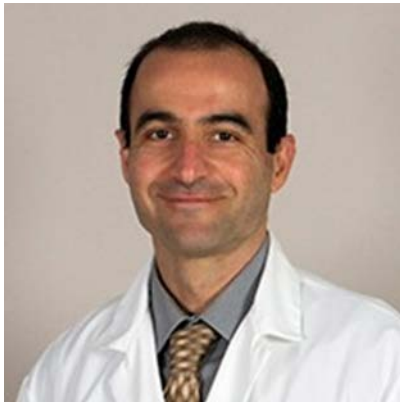


BIOENGINEERING

PRESENTS

Systems Biology & Radiology: Incremental Steps Towards Hierarchical Imaging and Functional Modeling



WEDNESDAY, October 11, 2017

1:00 – 2:00 PM

2101 ENGINEERING V

Neema Jamshidi, M.D., Ph.D.

UCLA

Assistant Professor, Department of Radiological Sciences

ABSTRACT:

Advances in biotech capabilities have enabled a dizzying array of measurements from sub-cellular level to the organ/tissue level and behold the promise of great advances in medicine. However reaping any type of translational benefit for diagnosis, prognosis, and treatment of disease require,

- 1) Placing the data in a meaningful (biological) context
- 2) Development of predictive models with some mechanistic insights

This talk will explore some examples in which incremental steps have been made towards these goals through elucidation of the genotype-phenotype relationship as applied to precision medicine objectives, i.e. the rational diagnosis and treatment of medical conditions. In other words, can we use cellular as well as clinical imaging technologies to build predictive models of disease that can eventually guide patient diagnosis and treatment?

BIOGRAPHY:

Dr. Jamshidi is an Assistant Professor in the Department of Radiological Sciences at UCLA. He received his MD and PhD in Bioengineering at UC San Diego, followed by an Internal Medicine internship at UC San Diego. He completed his residency in Diagnostic Radiology followed by Vascular and Interventional Radiology fellowship at UCLA.