

Indiana University-Purdue University Indianapolis

Department of Mathematical Sciences

STATISTICS SEMINAR

12:15pm—1:15pm, Tuesday, September 10, 2019
LD 265

Speaker: Dr. Huanmei Wu, Chair of the Department of BioHealth Informatics
School of Informatics and Computing, IUPUI

Title: Artificial Intelligent in Biomedical Informatics

Abstract:

This presentation will brief summarize the past, present, and future of the application of Artificial intelligence (AI) in medicine and healthcare. Heterogeneous biomedical data, such as genomics, transcriptomics, proteomics, medical images, vital signals, and electronic medical records (EMR), are routinely acquired in clinic and research centers for disease characterization and patient outcomes. Algorithms and artificial intelligence in integrating these resources and exploring further of the under-exploited data will expedite innovative biomarker discovery. This talk will present sample applications of the integrative analysis in radiomics and immunomics. A holistic framework for omics data management and analysis will also be introduced which will provide a convenient tool for researchers with all levels of bioinformatics skills to perform big data analysis.

Bio:

Dr. Huanmei Wu received her B.S. in Chemistry from Tsinghua University (Beijing, China) and Ph.D. in Computer Science from Northeastern University (Boston, MA). She is currently the Chair of the Department of BioHealth Informatics at Indiana University School of Informatics and Computing - Indianapolis. Dr. Wus background has served her well in multidisciplinary research, leading to projects that explore the roles and applications of data management and analytics to medical and life science research. Sample research projects are in personalized health, precision medicine, genomics/proteomics data mining, and integrative prediction.