Biomedical Informatics Grand Rounds
Wednesday, March 12, 2025
3:00 pm – 4:00 pm

Writing Middleware to Accelerate the Utilization of Health Care Data

Janos Hajagos, Ph.D.

Research Assistant Professor and Chief of Data Analytics
Department of Biomedical Informatics, Stony Brook University

Remote Access
Join Zoom Meeting https://stonybrook.zoom.us/j/95617197636?pwd=KytzZ2pVRG9SZGpKZUtpNXJISjNjZz09
Meeting ID: 956 1719 7636 Passcode: 924293

Bio: Dr. Janos G. Hajagos is Chief of Data Analytics and Research Assistant Professor in the Department of Biomedical Informatics at Stony Brook University. He is the lead data scientist across several quality initiatives at Stony Brook Medicine and for the Suffolk Care Collaborative's DSRIP award. Before his current position he was the Associate Director of Data Computation in the Division of Applied Informatics. There he was integral in several data analytic applications and the development of production web applications for the New York State Department of Health's Medicaid Program. Dr. Hajagos has published and presented his informatics work at a range of national conferences. He received his PhD in Ecology and Evolution in 2005 from Stony Brook University.

Abstract: Electronic databases derived from EHRs (Electronic Health Records) and administrative systems have opened up opportunities for clinical researchers to test novel hypotheses. While electronic databases are not new there has been a rapid growth in the number and breadth of these databases. In this talk, I will describe methodology for evaluating these databases in a systematic fashion. Several case examples will be developed during the talk. I will discuss how new data types such as notes and imaging are being integrated into these databases.

Educational Objectives:
1. Learn to evaluate the content of an electronic database and describe its subject area coverage.
2. Learn evaluate the limitations of the databases and how it can limit the type of clinical questions that can be answered.
3. Learn evaluate new data types, free text and imaging, that are being integrated into electronic databases and understand their limitations.