



Biomedical Informatics Grand Rounds



Janos Hajagos, PhD

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Building a Just-In-Time COVID-19 Data Commons at Stony Brook Medicine

Wednesday, April 22, 2020 3 pm—4 pm

Abstract:

On March 17th, 2020 there were 84 reported cases of Covid-19 in Suffolk County and in two weeks this number had risen to 5,791 cases. Today, April 21, the number of confirmed cases stands at 28,057. The increasing number of cases has put stress on the local health system in the county. The Department of Biomedical Informatics began a process of building out an infrastructure for capturing clinical details on Covid-19 patients treated within the Stony Brook Medicine Clinical Network. The efforts have grown to capture a wide range of data elements including laboratory tests, medications, past diagnosis history, full text of clinical notes, and radiology images. We are all also capturing real-time, every 15 minutes, and detailed daily information. I will outline how this data is being curated and mapped to answer clinical and research questions on the disease.

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. Dr. Hajagos's current areas of research in biomedical informatics can be divided into two areas. The first is applying machine learning approaches to quantify patterns of health care utilization. This includes the application of graph databases and algorithms to EMR and administrative health care data sets. The second is the application of semantic technologies to bridge disparate sources of information. Dr. Hajagos has been developing tools to adapt and utilize the UMLS to find novel links between basic science researchers and clinicians.

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