Distinguished Speaker

Dr. Ophir Frieder

Georgetown University, Washington, DC

> *Friday, March 31, 2023, 11am*
> *Olin Life Sciences Building, Room 130*

Title: Computational Intelligence for Health

Abstract: We are just now slowly, physically recovering from the recent pandemic; mentally we have a long journey ahead of us, and many are touting a looming mental health crisis. Thus, initially, we describe a web-intelligent, social-media monitoring approach for depression detection and continue with a presentation of a patented, licensed, and proprietary intelligent agent that identifies behavioral deviancy, an early warning for potential mental health concerns. We then turn our attention towards web-intelligent monitoring of social media to detect physical disease outbreaks and describe the implications of such surveillance schemes to healthcare planning for a major children-focused hospital. We conclude by, once again, focusing on patented, licensed, and proprietary intelligent agent technology this time to screen for covid via the use of surrogates. Other medically oriented mining and search applications are briefly mentioned.

Bio of the Speaker: Ophir Frieder focuses on scalable information processing systems with particular emphasis on health informatics. He is a Fellow of the AAAS, ACM, AIMBE, IEEE, and NAI, an Inaugural Member of the ACM SIGIR Academy, and a Member of Academia Europaea and the European Academy of Sciences and Arts. He was awarded the Association for Information Science and Technology (ASIS&T) Research in Information Science Award for medical informatics and the IEEE Edward J. McCluskey Technical Achievement Award for scalable information systems. Heavily involved with industrial efforts, he is the Lead Science and Technology Advisor for Aurora Forge and Chief Scientific Officer of Invaryant, Inc. He is a member of the computer science faculty at Georgetown University and the biostatistics, bioinformatics, and biomathematics faculty in the Georgetown University Medical Center.

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