Translational AI Center (TrAC) Seminar - Fall 2021

Iddo Friedberg
October 28 at 12:00 noon
https://iastate.zoom.us/s/9378976918

What can an AI competition do for you?

In an era of high throughput biology, we increasingly rely on AI for classification of protein structure prediction to genome annotation. Moreover, AI methods are making their way into biomedicine and agriculture for diagnosing diseases and improving productivity. Yet how reliable are such methods? One way to both critique and improve AI methods is by competitions. I will discuss AI competitions in the biological sciences, with an emphasis on the latest results in protein structure and function prediction, as well as success stories and cautionary tales.

Short Bio

Iddo Friedberg is an Associate Professor in the department of Veterinary Microbiology and Preventive Medicine. He received his PhD from the Hebrew University of Jerusalem, and his postdoctoral training at the Sanford Prebys Burnham Medical Discovery Institute in La Jolla, California. He joined Iowa State university in 2015. His lab is applying computational methods to study metagenomics, protein sequence-structure-function connections, antimicrobial resistance, genome structure evolution, and CRISPR site prediction. He is a member of the Board of Directors of the International Society for Computational Biology and an organizer of the Critical Assessment of protein Function Annotation group, a consortium of 60 labs that is working to improve methods for protein function prediction.