

DIPARTIMENTO SALUTE DONNA E BAMBINO

“The New Era of Synthetic Data, Auto-MLs and Generative AI integration in Medicine”

Dr. Hooman H. Rashidi, MD, MS FCAP
Vice Chair of Technology Innovation & Computational Pathology
Robert. J. Tomsich Pathology and Laboratory Medicine Institute
(PLMI)
Director, PLMI's Center for Artificial Intelligence & Data Science



Dr. Rashidi combines his passion for patient care and education with his unique training in bioinformatics and machine learning (ML) to create innovative new tools and resources that improve clinical practice, research and education.

Dr. Rashidi's experience in bioinformatics dates back to his graduate years at UCSD which subsequently allowed him to serve as the principal author and editor of several popular bioinformatics textbooks. This background has also enabled him to develop various novel ML platforms. Before joining the Cleveland Clinic as the Director of PLMI's Center for Artificial Intelligence and Data Science & Vice Chair of Technology Innovation & Computational Pathology, he served as the Director of AI for University of California Davis Medical Center and Professor & Vice chair of informatics and Computational pathology (until Dec 2021), leading a large number of AI / ML studies with over 30 collaborators from multiple departments and various prominent institutions. These studies have led to numerous manuscripts in which he serves as the senior/corresponding author and has also led to several filed patents. One of his most exciting well established inventions is the proprietary Automated Machine Learning (Auto-ML) software MILO (Machine Intelligence Learning Optimizer). MILO's suite of applications include its powerful Auto-ML platform and 6 unique complimentary preprocessing and statistics Data Science Apps which have been licensed to several industry and academic institutions & serving as a powerful suite of data science tools for a large number of clinical, quality and educational projects.

Most recently, he has also developed a new powerful novel automated synthetic data generator known as STNG (Synthetic Tabular Neural Generator) that will be available soon to all (through Cleveland Clinic) to help revolutionize our research & quality study realm by addressing various data access and data optimization needs.

In addition to the above, Dr. Rashidi is also a known educator and the co-founder, developer, and senior editor of HematologyOutlines, a very popular online hematology atlas that is used internationally and endorsed by the American Society of Clinical Pathology.

Dr. Rashidi's efforts in the machine learning & digital space are widely recognized, as evidenced by his various national and international talks (at numerous prestigious conferences / institutions), his numerous editorial and reviewer roles, his various invited review articles in prominent journals & his continued national and local committee roles within this space.



AULA P56



27 giugno 2023



ore 17,00



Host: prof.ssa Silvia Bressan

**Chairs: prof.ssa Liviana Da Dalt,
prof. Giorgio Perilongo**

<https://unipd.zoom.us/j/83860720019?pwd=UEtrMXJnUWF3SnpvK2pGRm1EdDdiQT0>

I seminari si terranno in lingua inglese. La partecipazione è possibile anche via web ai link indicati.