



Contribution ID: 10

Type: **not specified**

Analyzing complex networks of social systems: from scientists to social media bots

Tuesday 5 May 2026 15:00 (1 hour)

Social systems exhibit complex behavior, and more recently these systems have been studied using tools of network science and machine learning. In this talk, I will present various complex systems like scientists referring to literature either by citing them or simply referring to them as text or social media accounts coordinating towards spreading misinformation online. Diffusion of scientific knowledge led us to discover “hidden citations” that emerge when a scientific concept is discussed more frequently, it suffers significant credit loss measured by traditional citation metrics regardless of publishing venue and discipline. Similarly, popularity of social media influencers follows quantized patterns between popularity and influence. We also discuss when such systems disturbed by automated accounts and risks involved in manipulating public discourse. I hope to convince you that both these systems share unique characteristics that are of interest to Physicists and Computer Scientists.

Presenter: VAROL, Asst. Prof. Onur

Session Classification: Machine Learning and Data Analysis Session