Contribution ID: **56**   Type: **Invited talk (40 min)**

Network science and application to socio-economic systems

Thursday, 1 July 2021 09:00 (40 minutes)

Network science has been successfully applied in recent years in many worldwide systems and processes. These include financial systems [1,2] and social systems [3,4]. I will present and discuss some examples including (i) how network science can be useful to distinguish between fake news and real news [3], (ii) how to identify bottlenecks in urban traffic [5], (iii) how scientists switch between research topics during their career [4] and (iv) what are the advantages of working in fresh teams [6].

References:

[1] A. Majdandzic et al, Nature Physics 10 (1), 34 (2014); Nature Comm. 7, 10850 (2016)

[2] Y. Kobayashi et al, New J. of Physics, 21, 043038 (2019)

[3] Z. Zhao et al, EPJ Data Science 9 (1), 7 (2020)

[4] A. Zeng et al, Nature Communications 10 (1), 1-11 (2019)

[5] Daqing Li at al, PNAS 112, 669 (2015); G. Zheng et al, PNAS 116, 23 (2019)

[6] A. Zeng et al, Nature Human Behaviour, 1-9 (2021)

Primary author: HAVLIN, Shlomo (Bar-Ilan University)

Presenter: HAVLIN, Shlomo (Bar-Ilan University)

Session Classification: S1