Event information form

Event type	Workshop
Title	Introduction to network analysis in Python (NetPy)
Location	Lecture room 3 at UL-FRI, Večna pot 113, Ljubljana
Schedule	Tuesday, 10. 12. 2019 15:30 - 20:00 with breaks
Instructor	Lovro Šubelj
Assistant(s)[1]	/
Instructor description (max 100 words)	Lovro Šubelj is a researcher and lecturer in the field of network science and general data analysis. He is currently an assistant professor at the University of Ljubljana, and has over 10 years of professional and academic experience in network analysis. He is a coauthor of more than 60 scientific papers on network analysis, and has developed original network analysis methods and algorithms for companies such as Petrol and Celtra. Together with his fellow colleagues he is also organizing the only network analysis conference in Slovenia called NetSlo.
Instructor Contact[2]	lovro.subelj@fri.uni-lj.si +386 40 754 356
Instructor Website	http://lovro.lpt.fri.uni-lj.si
Instructor T-Shirt size	M
Assistant(s) T-Shirt size(s)	/
Event description, target audience, including any prerequisites (max 150 words)	This workshop is primarily aimed at Python programmers, either academics, professionals or students, that wish to learn the basics of modern network science and practical analyses of complex real networks, such as social, information and biological networks. Familiarity with the basics of probability theory, statistics and linear algebra is strongly encouraged. The workshop is based on the Masters level course Network analysis offered by the instructor at UL-FRI.
Event syllabus (max 150 words)	• From classical graph theory to modern network science. • Large-scale structure of real networks and graph models. • Measures of node importance and link analysis algorithms. • Network community, core-periphery and other structures.

[1] If there will be someone assisting you, please provide their name and surname.
[2] Email and mobile phone. Contact information will only be used for contacting the instructor for the purposes of organizing the event.

	• Network-based mining, visualization and some applications. • Hands-on: Network abstraction, node centrality, community detection, network mining and visualization etc.
Attendee equipment prerequisites	It is recommended that you bring a laptop with a working installation of Python, and the NetworkX and CDlib packages. Alternatively, you can work with any other network analysis package, such as igraph, graph-tool or SNAP.py. Finally, for the purposes of visualization of smaller networks, it is recommended to have a working installation of some network analysis software, such as Gephi or visone. Access to all the materials, code, and datasets will be provided to participants a couple of days before the workshop.
Maximum number of participants	20+

Required materials and equipment[3] and any other relevant information:

[3] Whiteboard/blackboard and overhead projector with HDMI/VGA input will be provided by default.