In line with the strategic priorities of Digital Europe ICEP-2022 conference organizers offer a

workshop to promote computational social sciences and humanities

Engaging with literature review and structural equation modelling with Python and R

4 acad. hours

10 AM – 1:15 PM, 7th of April

Level:	easy, but all levels of expertise are welcome.
Audience:	researchers and doctoral students interested in literature reviews and / or structural equation modelling.
Type of workshop:	sharing practical "know how" and trying out various Python, R and GUI (graphical user interface) tools that help in the process of a literature review and in the second part getting acquainted with a completely different topic – a quantitative analysis methodology of structural equation modelling and its typical uses.
Venue:	Zoom link https://liedm.zoom.us/j/84154265591
Certificates:	registered participants for this workshop will get a certificate of the workshop attendance (4 acad. hours).
Before workshop:	register via the link and select 'workshop'; have your own laptops; install Anaconda to use Python notebooks; also, install R and then free RStudio Desktop.
Contact person:	Rimantas Rauleckas, email: rimantas.rauleckas@ktu.lt

Programme

Topic/subtopic	**Tools**
1. Topic: literature review (2 acad. hours)	
Keyword search in Scopus and Opencitation	Python packages *elsapy*, *opencitingpy*
Search string generation	R library *litsearchr*
Citation chasing and bibliographic network analysis via GUI	GUI: https://estech.shinyapps.io/citationchaser/ https://www.connectedpapers.com/ https://www.lens.org/lens/search/scholar/structured Python: *networkx*
Abstract screening with active learning AI algorithm	GUI: *abstraktr* Python: *asreview*
Text analysis: topic modelling	Python: *sklearn*, *gensim*
2. Topic: structural equation modelling (SEM) (2 acad. hours)	
Confirmatory factor analysis and structural equation modelling with covariance-based SEM	CB-SEM: R: *lavaan* Python: *semopy*
Structural equation modelling with partial least squares SEM	PLS SEM: R: *plspm*