WORKSHOP

COINs16

Designing Networks for Innovation and Improvisation

rome, italy | 8.jun - 11.jun 2016

Università di Roma
Tor Vergata

DIPARTIMENTO
DI INGEGNERIA
DELL'IMPRESA
"MARIO LUCERTINI"

MENS DISCENDO
ALITUR

Measuring the dynamics of social networks with condor

Peter A. Gloor is a Research Scientist at the Center for Collective Intelligence at MIT's Sloan School of Management where he leads a project exploring Collaborative Innovation Networks. He is also Founder and Chief Creative Officer of software company galaxyadvisors, a Honorary Professor at University of Cologne, a lecturer at Aalto University in Helsinki, and Distinguished Visiting Professor at P. Universidad Católica de Chile. Earlier he was a partner with Deloitte and PwC, and a manager at UBS. He got his Ph.D in computer science from the University of Zurich and was a Post-Doc at the MIT Lab for Computer Science.

WORKSHOP	MEASURING THE DYNAMICS OF SOCIAL NETWORKS WITH CONDOR
WORKSHOP LENGTH	2 HOURS
INSTRUCTOR	• **PETER A. GLOOR**, MIT Center for Collective Intelligence, pgloor@mit.edu,cci.mit.edu/pgloor
	• **HAUKE FUEHRES**, hauke.fuehres@uni-bamberg.de University of Bamberg. https://www.unibamberg.de/sna/team/hauke-fuehres/

This workshop gives an introduction to Condor, an easy-to-use dynamic semantic social network analysis tool, which automatically imports many types of communication data such as e-mail, Twitter, Blogs, Wikipedia, and Facebook, converting it into social networks for longitudinal network, content and sentiment analysis.

CONDOR CONSISTS OF FOUR PARTS

1. A series of fetchers to directly load data from e-mail, for example from gmail or Exchange, from Twitter, from Google, Wikipedia, and Facebook.
2. Interactive preprocessing functions to modify and reduce the graph, filter by content and by structure, annotate by geocode, merge multiple e-mail addresses, and create modified graphs.
3. Visualization functions, to show the static network, a dynamic movie of the network over time, geographical word maps, and different views for structure, content, and sentiment of actors.
4. Export functions to export time series of all variables for later longitudinal analysis in statistics packages such as R or SPSS (or Excel).The workshop will explain how to use the Condor software to visualize, monitor and track brands, products, and topics on the Internet, and how to analyze organizations through their e-mail networks. It provides many examples and case studies of how to apply social network analysis for prediction of trends from online social media and to improve organizational performance by optimizing communication and collaboration by mining email.

WHAT YOU WILL LEARN

After the workshop you will be capable of:
• Coolhunting on the Internet using Twitter, Blogs, and Facebook for trends and trendsetter.
• Analyzing structure, dynamics, and content of E-Mail.
• Understanding the six honest signals of collaboration, a list of key metrics to measure temporal team dynamics: central leadership, rotating leadership, balanced contribution, responsiveness, honest sentiment, and shared context.
• Exporting time series and other communication data to statistics packages.

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What to bring to the workshop

Bring along your laptop to experiment with Condor. Alternatively feel free to just lean back and watch. Information about software download and Condor manual, videos, and draft manuscript of a new Condor book are available online at https://sites.google.com/site/coincourse16a/presentations

Condor runs on Windows, Mac, and Linux, and needs Java and MySQL installed. The Twitter fetcher needs Twitter API keys, the Google CSE fetcher needs Google CSE API keys, it is recommended to obtain these keys before the course (see installation instructions in the manual).

DOWNLOAD CONDOR AND THE CONDOR MANUAL
from http://guardian.galaxyadvisors.com/guardian
(workshop participants can extend their demo license to a free one-year academic license in the course