UPM
UNIVERSITI PUTRA MALAYSIA
BERILMU BERBAKTI

INSPEM WEEKLY SEMINAR

Date & Time

15 March 2019, Friday @ 3.15 pm

Venue

Al-Farabi Seminar Room, Second Floor, INSPEM

Presenter

Zurita Ismail

Research Officer, Laboratory of Computational Sciences & Mathematical Physics, INSPEM

Topic

Community Structure in Graphs - Case Study of UPM Co-authorship Network from 2007-2010

Abstract

Community structure is a typical structure found in social networks. A community (cluster or module) is a part of a network (group of nodes) where internal connections are denser than external ones. Uncovering communities helps us to understand the structure of the network, to identify cohesive subgroups and to draw a readable map of the network. Using the first four years period UPM Research University dataset from 2007-2010 in journal publications, we constructed a co-authorship network representing collaborations between authors and coauthors. We apply different community detection techniques in order to examine the structure of the co-authorship network dataset.

Keywords: Graph Theory, Complex Networks, Social Networks, Community