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Biography

Abstract. A social network is a graph made of nodes that are connected by one or more specific types of relationships, such as values, friendship, work. The goal of community detection in networks is to identify the communities by only using the information embedded in the network topology. Many methods have been developed for the community detection problem. These methods use tools and techniques from disciplines like physics, biology, applied mathematics, and computer and social sciences.

One of the special interests in social network analysis is discovering community structure. Community is a group of nodes that are tightly connected to each other and loosely connected with other nodes. Community detection is the process of network clustering into similar groups or clusters. Community detection has many applications including realization of the network structure, detecting communities of special interest, visualization , etc.

Eslam graduated from the Faculty of Computers and Information – Cairo University (FCI-CU) in 2007 with Excellent with Degree of Honour, He is working as a teaching assistant at FCI-CU, and He is a member in the scientific research group in Egypt (SRGE). His master topic is about "Community Detection within Social Networks"; He is investigating Nature-Inspired algorithms to detect communities within social networks.

He has a good programming experience using a variety of technologies; he is a certified Java programmer (2010) from Sun Microsystems, and IBM Certified Mobile Application Developer – IBM academic initiative (2014), he has worked in a variety of projects using the .Net development stack.

Research Interest

1) Social Networks Analysis
2) Data Mining
3) Machine Learning
4) Computer Vision

List of publications:

- E. A. Hassan, A. I. Hafez, A. Hassanien and A. A. Fahmy. "Community Detection Algorithm Based on Artificial Fish Swarm Optimization" In Intelligent Systems' 2014, pp. 509-521. Springer International Publishing, 2015.