A PhD position is available at UNSW Canberra in the area of dynamic social network analysis and complex systems. The PhD project will examine the selection mechanisms in the evolution of networks which can help to predict and manage the structural changes of the networks over time. This research aims to investigate quantitatively the network evolution processes during the evolution of real complex networks and also the behavioural attachment patterns of the actors who are affecting on the network changes. This requires the use of nature-inspired algorithms and techniques and further development of a theoretical framework for networks evolution and adaptation through the use of different multi-disciplinary theories. The findings of this study will have implication for decision makers and managers to facilitate or control the way networks evolve and resources flow through the network.

The candidate will be expected to have a background on network science and network analysis and be familiar with social science-related theories and concepts. A previous research experience and having achieved at least one journal or conference publication are essential. Some programming experience and a computational modelling background would be so helpful. The applicant will be expected to have the equivalent of a first-class honours degree from UNSW.

The successful applicant, subject to satisfying the admission requirements, will be awarded a UNSW Canberra Research Training Scholarship with an annual tax-free stipend of $26,392 (2014 rate). This scholarship is for a period of 3 years, subject to satisfactory progress reviews. The successful applicant would be expected to be available to commence their studies no later than Session 1, 2015 and must be on campus and enrolled at UNSW Canberra in the relevant PhD program by 31 March 2015. Applications will be accepted until a suitable candidate is found.

The Canberra campus of the University of New South Wales is located at the Australian Defence Force Academy (ADFA). ADFA is located in an Australian bushland setting less than five kilometres from the city centre and the Canberra airport.

The UNSW Canberra campus has a large and comprehensive library, state-of-the-art computing facilities, well-equipped and modern laboratories.

Canberra is a modern city chosen as Australia's national capital in 1908. Its name comes from the local Aboriginal word "Kamberra" meaning "meeting place". As Australia's capital city, Canberra is the focal point for activities and events that affect and influence the nation. It is the home of Federal Government and the public service, a focus for business and industry, home to the international diplomatic community, a place of study or just a great place to live.

Information on how to apply for admission, fees, scholarships and living in Canberra can be found at: http://www.unsw.adfa.edu.au/student/future/research.html

For further information, please contact:
Dr. Alireza Abbasi
Email: a.abbasi@adfa.edu.au
Phone: +61 2 6268 8058
School of Engineering and Information Technology
The University of New South Wales
Canberra ACT 2600 Australia