

**PhD Research Scholarship
& Research Fellowship
(2011 – 2013)**



School of Computer Science and Information Technology, RMIT Melbourne, Australia

Developing Smart Embedded Host-based Intrusion Detection Systems

Project Description

Many serious cyber attacks do not generate significant network traffic and new unknown versions of such attacks can easily penetrate network based intrusion detection system (NIDS). We aim to design innovative host-based IDS (HIDS), as a complement to the NIDS, to address this issue. This project will develop an intelligent hybrid IDS scheme to fuse multiple anomaly HIDS detection engines to significantly reduce the false alarm rate and increase the intrusion detection rate. This is a project funded by ARC (Australia Research Council) Linkage Grant.

Scholarship and Research Fellowship are available!

PhD Scholarship Position

An Australian Research Council APAI (Australia Postgraduate Award Industry) Scholarship is available to work on this project. The scholarship will be for the duration of three years, commencing 2011.

Criteria

The following are the criteria for the position:

- Australian Citizenship / Permanent Resident for 12 months
- Outstanding overseas applicants can also be considered and there exists a possibility of fee waiver and top up scholarship for outstanding overseas applicants.

Qualification:

- Bachelor degree in engineering or computer science (1st class honors preferred). A degree in mathematics with strong a computer science component is also welcome.

Knowledge and experience:

- Strong mathematics base particularly relevant to statistics
- Pattern recognition e.g., machine learning, data mining
- Computer Science: operating system, data structure and algorithm analysis, programming skills.

Research fellowship is also available for working on this project. Short term or long term academic visiting scholars are also welcome.

Application: A CV detailing your qualifications, experience and achievements is to be sent to: Associate Professor Jiankun Hu, School of Computer Science and IT, RMIT University Melbourne, VIC 3001. Tel: (03) 9925 9793
email: Jiankun@cs.rmit.edu.au; Homepage: <http://goanna.cs.rmit.edu.au/~jiankun/>

The successful PhD scholarship applicant is expected to start by March 2011.