Arun Cyril Jose

Department of Computer Science
Indian Institute of Information Technology Kottayam
C/o IISER - Thiruvananthapuram Transit campus,
Computer Science Building, CET, Engineering College (P.O)
Trivandrum - 695016, Kerala, India.

Education

PhD in Computer Engineering:
Department of Electrical Electronics and Computer Engineering
University of Pretoria, South Africa.
Supervisor: Prof. Reza Malekian.
June 2014 – December 2017

MS in Forensic Computing
Coventry University, Coventry, United Kingdom.
January 2010 – January 2011

B.Tech in Computer Science and Engineering
Mahatma Gandhi (MG) University, Kerala, India.
July 2006 – May 2009

Google Scholar Profile

https://scholar.google.co.in/citations?user=Z6uzW08AAAAJ&hl=en

Publications

1. Kevin W. G. Cowdrey, Jaco de Lange, Reza Malekian, Johan Wanneburg, Arun Cyril Jose, "Applying Queueing Theory for the Optimization of a Banking Model," **Journal of Internet Technology**, vol. 19, no. 2 , pp. 381-389, March 2018. http://jit.ndhu.edu.tw/ojs/index.php/jit/article/view/1658

2. A. C. Jose, R. Malekian, "Improving Smart Home Security: Integrating Logical Sensing Into Smart Home," in **IEEE Sensors Journal**, vol. 17, no. 13, pp. 4269-4286, July1, 2017. *One of the 25 most downloaded Sensors Journal papers till date since the establishment of the Journal*. http://ieeexplore.ieee.org/document/7930376/

3. A.C Jose, R. Malekian, N. Ye, "Improving Home Automation Security; Integrating Device Fingerprinting Into Smart Home", **IEEE Access**, vol. 4, October 2016. http://ieeexplore.ieee.org/document/7563403/

4. A.C Jose, R. Malekian, "Smart Home Automation Security: A Literature Review", **Smart Computing Review**, Vol. 5, No. 4, pp. 269-285, August 31, 2015. http://www.smartcr.org/view/vol5no4.html

5. A. C. Jose, R. Malekian, Babedi B. Letswamotse, "Improving Smart Home Security: Integrating Behaviour Prediction Into Smart Home," **International Journal of Sensor Networks**. [*In Press*].

Research Interest

Smart Home Security

Device Fingerprinting

Logical Sensing from a Security Point of View

Behavior Prediction from a Security Point of View

Different online surveillance techniques

Security based social engineering

Completely anonymous communication over the internet

Professional Activities

Reviewer:

IEEE Access Journal with impact factor of 3.244.

IEEE Sensors Journal with impact factor of 2.51.

IEEE Transactions on Intelligent Transportation Systems with impact factor of 3.724.

Journal of Internet Technology with impact factor of 1.930.

KSII Transactions on Internet and Information Systems with impact factor of 0.452.

Scholarships Received

Awarded University of Pretoria, Postgraduate Doctoral Scholarship from 2014 - 2016 worth R 15,000.

Awarded University of Pretoria, Research Support Bursary from 2014 - 2016 worth R 195,000.

Awarded University of Pretoria, Special International Research Award from 2014 - 2016 worth R 10,400.

Awarded 2017, University of Pretoria, Research Support Bursary for exceptional fourth year PhD student worth R 35,000.

Work Experience

2015 – 2017: Teaching assistant for Postgraduate Students during the Post graduate block week. Assisted Prof. Reza Malekian with the class for Honours and Master's degree students and assisted with the student presentation of their novel ideas.

Workshops & Seminars Attended

Seven day Faculty Development Program on 'Machine Learning' held at Saintgits College of Engineering, Kerala, India from 18th June 2018 to 22nd June 2018.

THE IEEE SUMMIT - 5G IN FUTURE AFRICA: The role of IoT, cognitive radio and cybersecurity in networking the next billion, a full day workshop held at University of Pretoria in May 2017.

An Adhoc Wireless Communications Network to Monitor Fruits on Trees in a Rural Environment: A half day lecture by an IEEE AP-S Distinguished Lecturer, Professor Monai Krairiksh held at University of Pretoria October 2015.

Student-Supervisor Relationship-Roles and Responsibilities: A half day seminar under Prof. Bernard Slipper, held at University of Pretoria in May 2015.

Seminar on Ethics in Academic Life: A half day seminar held at University of Pretoria in May 2015.

Communicating Research to Non Academic Audience: A 2 hour lecture on how to communicate research to non-academic audience held at University of Pretoria during April 2015.

Workshop on Internet of Things (IoT) & Wireless sensor Networks (WSN): A one day workshop held at Council of Scientific & Industrial Research (CSIR) in Pretoria South Africa on March 2015.

MOSAIC2B: A Video/Data/Film sharing in remote areas through mobile Apps. A half day seminar held at University of Pretoria in 2014.

BLITZKRIEG-'09: A one day National level technical symposium on *Ethical Hacking*, organized by the Department of Computer Science and Engineering of St. Joseph College of Engineering and Technology, Pala, Kerala, India, held in 2009.