Department of Statistics & Computer Science
Faculty of Science / University of Peradeniya



Dr. Erunika O. Dayartna

B.Sc. (Perad.), Ph.D. (Keio, Japan)

Senior Lecturer

malavi@pdn.ac.lk
spkmlv@gmail.com
+94 81 239 (4260)
+94 76 698 6500
#

Higher Education Qualifications

PhD

Keio University
Japan
(2015)

BSc

University of Peradeniya - Sri Lanka
(2010)

BSc

University of Peradeniya
Sri Lanka
(2010)

 © 2022, Faculty of Science, UoP

Awards, Scholarships, Memberships & Fellowships

Member of Internet Engineering Task Force (IETF)

 © 2022, Faculty of Science, UoP

Positions Held



Nothing to show under this subheading !!!

 © 2022, Faculty of Science, UoP

My Teachings

- AS473: Advance Computer Networks
- CS201: Data Structures
- CS205: Computer Architecture
- CS412: Mobile and Pervasive Computing
- CS413: Data and Network Security
- CS414: Software Project Management
- SC414: Foundation to Computer Architecture
- SC573: Computer Architecture

Research Interests (Research Fields/ Projects)

Computer Networks, Internet, Mobile Networks, Wireless Sensor Networks, Internet of Things, Mobile cloud computing, Network simulation, Software Defined Networks (SDN), Mobility protocols

Ongoing Research and Projects

- **Middleware for computational offload for Mobile Computing**
- **Autonomous System level topology mapping techniques**
- **Implementation and comparison of wireless sensor network protocols**
- **NS3 simulation of wireless sensor networks**
- **Smart Surveillance Systems**

© 2022, Faculty of Science, UoP

Key Publications

IEICE Transactions on Information and Systems - (2015)

Intra-AS performance analysis of distributed mobility management schemes,

IEICE Transactions on Communications - (2014)

Impact of multiple home agents placement in mobile IPv6 environment,

Conferences

8th International Conference on Mobile Computing and Ubiquitous Networking (ICMU 2015)

HELD AT : Institute of Electrical and Electronics Engineers Inc. - (2015 Mar 13)
TOPIC : *"Performance evaluation of host-based mobility management schemes in the internet",* ***Erunika, O.*** *, Kaneko, K. & Teraoka, F.,*

Proceedings of 2013 IEEE 37th Annual Computer Software and Applications Conference (COMPSAC)

- (July 2013)
TOPIC : *"Multiple Home Agent Placement Considerations Based on Internet Service Provider Perspective in mobile IPv6",* ***O. Erunika****, K. Kaneko, and F. Teraoka,*

6th SLIIT research Symposium 2011

TOPIC : *"Toward the Optimization of Master Worker Approach in Grid Computing",* ***H. R. O. E. Dayarathne*** *and S. R. Kodituwakku,*

Peradeniya Research Sessions (PURSE), Sri Lanka

HELD AT : University of Peradeniya, SL - (December 2010)
TOPIC : *"Toward the Optimization of Master Worker Approach in Grid Computing (abstract)",* ***H. R. O. E. Dayarathne*** *and S. R. Kodituwakku,*

My Publications

Please goto the website.

https://sci.pdn.ac.lk/scs/staff/Erunika-Dayaratna

© 2022, Faculty of Science, UoP