

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



## Dr. Erunika O. Dayartna

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

#### **Senior Lecturer**

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### **Higher Education Qualifications**



Keio University Japan (2015)



**BSc** 

University of Peradeniya - Sri Lanka (2010)



**BSc** 

University of Peradeniya Sri Lanka (2010)

# Awards, Scholarships, Memberships & Fellowships



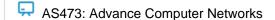
Member of Internet Engineering Task Force (IETF)

# **Positions Held**



Nothing to show under this subheading !!!

#### My Teachings



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

#### **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)

**TÒPÍC**: "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