J. Dinal Herath

Contact Information

Full Name: Jerome Dinal Herath Muthukumaranage
email: jherath1 AT binghamton DOT edu dinalherath.com

Education

State University of New York - Binghamton, NY, USA

Ph.D., Computer Science, August 2017 - Present (GPA: 3.93/4.00)

University of Colombo, Sri Lanka

B.S., Computational Physics (Major), July 2017 (GPA: 3.66/4.00)

Chartered Institute of Marketing(CIM), United Kingdom

Professional Postgraduate Diploma in Marketing, May 2015

St. Joseph's College, Colombo, Sri Lanka

Primary education, Ordinary Levels(O/Ls), Advance Levels(A/Ls), 2011

Publications

1. Adita Kulkarni*, **J. Dinal Herath***, Anand Seetharam, Arti Ramesh **(* Joint First Authors)**. "DeepChannel: Wireless Channel Quality Prediction using Deep Learning". In: IEEE Transactions in Vehicular Technology (TVT-2019).[**Submitted & Under Review**]
2. Dinuni Fernando, Siddharth Kulshrestha, Nitin Mahadik, Yanzhe Ma, **J. Dinal Herath**, Changxin Bai Ping Yang, Guanhua Yan, Shiyong Lu. "SciBlock: A Blockchain-Based Tamper-Proof Non-Repudiable Storage for Scientific Workflow Provenance". In: IEEE International Conference on Distributed Computing Systems (ICDCS-2019).[**Submitted & Under Review**]
3. **J. Dinal Herath**, Anand Seetharam, Arti Ramesh."A Deep Learning Model for Wireless Channel Quality Prediction". In: IEEE International Conference on Communications (ICC-2019).[**Accepted**]
4. **J. Dinal Herath** and Anand Seetharam."A Markovian Model for Analyzing Opportunistic Request Routing in Wireless Cache Networks". In: IEEE Transactions in Vehicular Technology (TVT-2018).
5. **J. Dinal Herath** and Anand Seetharam."Analyzing Opportunistic Request Routing in Wireless Cache Networks". In: IEEE International Conference on Communications (ICC-2018).
6. **J. Dinal Herath** and K. Jayananda."Simulation of Symmetric and Asymmetric movement gaits for Lateral Undulation in Serial Snake Robots". In: 2017 International Conference on Computational Modeling & Simulation (ICCMS-2017).
7. **J. Dinal Herath** and K. Jayananda."Comparison of Serial and Parallel Snake Robots for Lateral Undulation Motion Using Gazebo". In: 2016 IEEE International Conference on Information and Automation for Sustainability (ICIAfS-2016).

Awards and Scholarships

- Student travel grant to attend ACM/IEEE Symposium on Architectures for Networking and Communications (ANCS-2018).
- NSF Student travel grant to attend IEEE International Conference on Communications (ICC-2018).
- Winner of Dr. Sarath Gunapala Gold Medal for Computational Physics, University of Colombo, Sri Lanka (2017).
- Recipient of MIND(Munasinghe Institute for Development) Scholarship, Sri Lanka (2015-2016).

Experience

- Graduate Teaching Assistant, Watson School of Engineering & Applied Science, SUNY Binghamton. (Fall-2018, Spring-2019)
- Graduate Research Assistant, Watson School of Engineering & Applied Science, SUNY Binghamton.(Fall-2017, Spring-2018, Summer-2018)
- Temporary Lecturer, Department of Physics, University of Colombo, Sri Lanka.(2017)
- Assistant Head Prefect, St. Joseph's college, Sri Lanka. (2011-2012)

Skills

Programming Skills:

- C, Java, Python, Tensorflow, Solidity, Matlab, Gazebo, Scilab

Modeling Skills & Platforms:

- Markovian Models, Optimizations, Deep Learning, Ethereum-Blockchain, Mathematical Modeling