Moonmoon Mohanty

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EDUCATION

PhD candidate in Electrical and Communication Engineering 2021–Present
Indian Institute of Science, Bangalore
CGPA: 8.6/10 (current)
Advisor: Prof. Parimal Parag

Master of Science in Electrical and Computer Engineering 2015–2017
Ajou University, South Korea
CGPA: 9.6/10
Advisor: Prof. Kim Jae-Hyun

Bachelor of Technology in Electronics and Communication Engineering 2005–2009
C.V. Raman College of Engineering, Odisha
Percentage: 8.6/10

RESEARCH EXPERIENCE

Working in Distributed Systems Lab, IISc Bangalore, under the guidance of Prof. Parimal Parag.

Worked in Winner Lab under the guidance of Prof. Kim Jae Hyun on resource allocation for spectrum efficiency enhancement of 802.11ac WLAN.

PROFESSIONAL EXPERIENCE

L1 engineer, Network operations center Sep 2013 – May 2014
CompuCom

Transmission optimisation engineer Feb 2010 – Aug 2012
Nokia Siemens Networks

COURSES

Random Processes, Matrix Theory, Stochastic Processes and Queuing Theory, Communication Networks, Wireless Networks, Basic Analysis, Reinforcement Learning, Mean field analysis.

TEACHING EXPERIENCE

Taught E2 202: Random Processes as a graduate teaching assistant. Aug 2022 – Dec 2022

AWARDS AND HONORS

1. Recipient of **CNI Fellowship:** 2022-2023, 2023-2024.
2. **Gold best paper award:** IEEE Seoul Section, Student Paper Contest 2016, Dec. 2016.
3. **Best paper award:** KICS, Nov. 2016. Best Paper Award.

COMPUTER PROFICIENCY

Programming Languages: Python
Operating Systems: Linux, Windows
Version Control: GitHub
Typesetting: LaTeX
Tools: MATLAB

PUBLICATIONS

Published/Accepted

1. M. Mohanty, G. Bolar, P. Patil, U. Devi, F. George, P. Moogi, and P. Parag. Deferred prefill for throughput maximization in LLM inference. Workshop on Machine Learning and Systems (EuroMLSys), Rotterdam, Netherlands, pp. 100–106, Mar 31, 2025.
2. M. Mohanty, G. Gautam, V. Aggarwal, P. Parag. "Analysis of fork-join scheduling on heterogeneous parallel servers", IEEE/ACM Transactions on Networking, Volume 32, Issue 6, July 2024.
3. A. Priya, R. Choudhury, S. Patni, H. Sharma, M. Mohanty, K. Narayanam, U. Devi, P. Moogi, P. Patil, P. Parag. "Energy-minimizing workload splitting and frequency selection for guaranteed performance over heterogeneous cores", e-Energy 2024, Singapore.

4. M. Mohanty, J. K. Kim, J. H. Kim. "Grouping-Based Resource Allocation Scheme for Spectral Efficiency Enhancement of OFDMA WLAN Systems", The Korean Institute of Communications and Information Sciences, Jeju Island, pp. 210-211, Jun 2016.
5. M. Mohanty, J. K. Kim and J. H. Kim. "Resource Allocation Scheme for Spectral Efficiency Enhancement of OFDMA WLAN Systems", in proceedings of ICEIC 2017, Phuket, Thailand, 11-14 Jan 2017.

PATENT "OFDMA wireless LAN system resource allocation method for higher spectral efficiency." Korea Patent number 10-1881348.