Bodhisattwa Baidya

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Biography

Bodhisattwa Baidya, a mentor at AIEYS, is a passionate aviation enthusiast and research scholar from Kolkata, India. With degrees in Computer Applications, he's pursuing a Ph.D. in Computer Science at Ramakrishna Mission Vidyamandira while working as a Teaching Assistant. His expertise lies in drone security, cryptography, and AI-enabled drones, with research published in IEEE. As an FPV drone pilot, he brings practical experience to his academic work. Bodhisattwa is a member of Qoptars Pvt Ltd and the International Association of Engineers (IAENG). He actively engages in scholarly activities as a book editor and reviewer, with many publications pending. He has received recognition as a C20 Delegate, won an Inter-College Technical Quiz Championship at IIT Delhi, and earned a Young Researcher Certificate from AIEYS and ICETI. Bodhisattwa is also a sought-after keynote speaker at international conferences, solidifying his reputation in the field.

Education

Ramakrishna Mission Vidyamandira,Belur Math,India, **Phd in Computer Science** — June 2024 – Present

- **Coursework:** Wireless AD-Hoc Network,UAV Security,Research Methodology

Amrita Vishwa Vidyapeetham,India, **Master of Computer Application** — August 2021 – July 2023

- **Coursework:** Machine Learning,SDN,Computer Architecture

Experience

Member, International Association of Engineers Member(IAENG) – Hong Kong — September 2024 – Present

Mentor, AI-Explain You Science (AI-EYS) — October 2004 – Present

Teaching Assistant,Ramakrishna Mission Vidyamandira,Belur Math,India — July 2024 – Present

Drone Developer, Qoptars Pvt Ltd. — February 2022 – Present

Summer Internship,Oil and Natural Gas Corporation Ltd (ONGC) — August 2019 – October 2019

Publications

(1)Baidya, Bodhisattwa, and P. K. Binu. "An Efficient Path Selection in Software Defined UAV Network." In 2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT), pp. 1-7. IEEE, 2023.
(2)Baidya, B., Mondal, A., Abdullah, S. H., Tawfiq, A. T., Arshi, O. (2024). Quantum-Resistant UAV System Using Lattice-Based Key Agreement Protocol. In Proceedings of the 4th International Conference on Advances in Communication Technologies and Computer Engineering (ICACTCE'24), Springer(Accepted)
(3)B. Baidya, A. Mondal, S. Manna, G. Das, A. Santra, and A. Chakraborty, "Enhanced UAV Tracking through Multi-Sensor Fusion and Extended Kalman Filtering," in 2024 Sixth Doctoral Symposium on Intelligence Enabled Research (DoSIER 2024),(Accepted)
(4)Bodhisattwa Baidya and Atanu Mondal, "Quantum-Resistant Lattice-Based Cryptography for Secure UAV Communications," Smart Systems and Wireless Communication(SSWC2024), Springer(Accepted)
(5)Baidya, B., Mondal, A., Hundekari, S., Khan, I. U., S N, P., Kaushik, K. (2024). Quantum Lattice: Securing UAV Swarms in the Post-Quantum Era. In Proceedings of the 2nd International Conference on Pervasive Computing Advances and Applications (PerCAA-2024),IET(Accepeted)
(6)Baidya, B., Mallick, S., Mondal, A., Anamalamudi, S. (2024). Energy-Efficient UAV Path Planning using PSO-ABC algorithm in Obstacle-Rich Environments. In Proceedings of the 22nd OITS International Conference on Information Technology (OCIT 2024).IEEE(Accepted)