



Buddhadeb Pradhan

PERSONAL DETAILS

Address 1 Santoshpur Govt. Colony, Block-B, Santoshpur, Kolkata - 700142(Present)
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E-mail buddhadebpradhan@gmail.com/buddhadebpradhan@ieee.org
Father Banka Bihari Pradhan
Birth April 3, 1988

PROFESSIONAL PREPARATION

Doctor of Philosophy(Engineering) 2014-2020

Institute: National Institute of Technology Durgapur

Thesis Title : Coordinated Navigation of Multiple Mobile Robots

Degree Awarded Date: 31.01.2020

Master of Technology(Computer Science and Engineering) 2009-2011

University: Biju Patnaik University of Technology

Institute: National Institute of Science and Technology

CGPA : 9.03

Thesis Title : Grid Computing based Power Systems Extreme Event Screening : A Graph Theoretic Approach

Bachelor of Technology(Computer Science and Engineering) 2005-2009

University: West Bengal University of Technology

Institute: Calcutta Institute of Technology

CGPA : 8.08

Project Title : Searching an Unique Path Between a Source and Destination in MANET

XII 2005

West Bengal Council of Higher Secondary Education

Percentage : 75.6

X 2003

West Bengal Board of Secondary Education

Percentage : 86.13

WORK EXPERIENCE

Temporary Faculty

Feb 2020- June
2020

National Institute of Technology Jamshedpur

Academic and administrative responsibilities as well as guiding PG students for their project work

Assistant Professor

Mar 2012- Aug
2014

Budge Budge Institute of Technology, Kolkata

Academic and administrative responsibilities as well as guiding students for their project work

SKILLS

<i>Languages</i>	Bengali (Mother Tongue) English (fluent) Hindi (fluent)
<i>software</i>	MATLAB, ECLIPSE, GRIDSIM, PHPMYADMIN
<i>Programming</i>	C, C++, JAVA, HTML, JAVASCRIPT, PHP, PYTHON
<i>Research</i>	ROBOTICS, SOFT COMPUTING, BIG DATA, MACHINE LEARNING
<i>Interest</i>	

PUBLICATIONS

Journals

- K. H. K. Reddy, A. Kr. Luhach, **B. Pradhan**, J. K. Dash, D. S. Roy, A genetic algorithm for energy efficient fog layer resource management in context-aware smart cities, *Sustainable Cities and Society*, 2020,102428, ISSN 2210-6707. (IF:5.268)SCI
- M.W. Hussain, **B. Pradhan**, X.Z. Gao, K.H.K. Reddy, D.S. Roy, Clonal selection algorithm for energy minimization in software defined networks, *Applied Soft Computing*, Volume 96, 2020, 106617, ISSN 1568-4946. (IF:5.472)SCI
- **B. Pradhan**, V. Vijayakumar, S. Pratihar, D. Kumar, K. H. K. Reddy, D. S. Roy, A genetic algorithm based energy efficient group paging approach for IoT over 5G, *Journal of Systems Architecture*, 2020, 101878, ISSN 1383-7621. IF:2.552)SCI
- **B. Pradhan**, A. Nandi, N. B. Hui, D. S. Roy and J. J. P. C. Rodrigues, "A Novel Hybrid Neural Network-Based Multirobot Path Planning With Motion Coordination," in *IEEE Transactions on Vehicular Technology*, vol. 69, no. 2, pp. 1319-1327, Feb. 2020. doi: 10.1109/TVT.2019.2958197 (IF:5.339)SCI
- **Pradhan, Buddhadeb** ,Vijayakumar, V , Hui, Nirmal , Sinha Roy, Diptendu. (2019). Intelligent navigation of multiple coordinated robots. *Journal of Intelligent & Fuzzy Systems*, vol. 36, no. 5, pp 4413-4423. doi: 10.3233/JIFS-169996 (IF:1.637)SCIE.
- **B. Pradhan**, D. Sinha Roy and N.B. Hui, Motion planning and coordination of multi-agent systems, *International Journal of Computational Vision and Robotics*, vol. 8, no. 5, pp.492–508, 2018 **Scopus**.
- **Pradhan, B.**, Nayak, A. (2011). An Elegant Load Balancing Scheme in Grid Computing Using Grid Gain. *International Journal of Computer Science and Its Application*, Vol. 1 Issue 1, pp. 254-257.
- **B. Pradhan**, A. Nandi, N. B. Hui, D. S. Roy, G. Srivastava, A Game Theoretic Group Coordination Strategy for Multi Robot Navigation (Accepted at **Intelligent Service Robotics**)(Springer)(IF:1.547)SCI

Conferences

- **Pradhan B.**, Hui N.B., Roy D.S. (2020) Heuristic Coordination for Multi-agent Motion Planning. In: Khanna A., Gupta D., Bhattacharyya S., Snasel V., Platos J., Hassanien A. (eds) International Conference on Innovative Computing and Communications. Advances in Intelligent Systems and Computing, vol 1087. Springer, Singapore
- **B. Pradhan**, D. Sinha Roy, N. B. Hui, “Multi-Agent Navigation and Coordination using GA-Fuzzy Approach”, Advances in Intelligent Systems and Computing, vol. 817, pp. 793-805, 2019.
- K.Hemant K. Reddy, Manas Ranjan Patra, Diptendu Sinha Roy, **B Pradhan**, “An Adaptive Scheduling Mechanism for Computational Desktop Grid Using GridGain, Procedia Technology, Volume 4, 2012, pp. 573-578.
- **Pradhan B.**, Shial R.K., Sinha Roy D. (2012) Grid Computing Based NIC Infrastructure: A Step towards IT Enabled India, INDIA 2012, Visakhapatnam, India. Advances in Intelligent and Soft Computing, vol 132. Springer, Berlin, Heidelberg
- **B. Pradhan**, K. Hemant Reddy, D. S. Roy and D. K. Mohanta, “Intentional islanding of electric power systems in a grid computing framework: A graph-theoretic approach,” 2011 International Conference on Recent Trends in Information Systems, Kolkata, 2011, pp. 156-160.
- **B. Pradhan**, S. S. Paik, D. S. Roy and D. K. Mohanta, “A sustainable protection scheme for the Indian power system using grid computing: A graph-theoretic approach,” 2011 Annual IEEE India Conference, Hyderabad, 2011, pp. 1-6.
- **Buddhadeb Pradhan**, Ajay Nayak, “Harnessing the potential of Grid Computing using Grid Gain” in Proceedings of National Conference on Next Generation Communication and Computing, 2010, NMIET, Bhubaneswar.
- **B. Pradhan**, N.B. Hui, “Strategic Coordination and Navigation of Multiple Wheeled Robots” (Accepted at iNaCoMM2019)

AWARDS AND RESEARCH DISTINCTIONS

- Editorial Board Member of Journal of Computer Science Research
- Reviewer of Journal of Intelligent and Fuzzy Systems (IOS Press)
- Reviewer of IEEE Transactions on Mechatronics
- Programme Committee Member of International Conference on Big Data and Cloud Computing (ICBCC 2019)
- Programme Committee Member and reviewer of International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2018)
- Life Member of International Association of Engineers (IAENG)
- Member of American Society of Mechanical Engineers (ASME)
- Member of Institute of Electrical and Electronics Engineers (IEEE)
- Professional Member of Association for Computing Machinery (ACM)
- Member of Special Interest Group on Data Communications (SIGCOMM-ACM)

- Life Member of The Robotics Society (TROS)
- GATE Qualified at 2009 having 87.25 Percentile
- Best Paper Award received at SocProS 2017 held at IIT Bhubaneswar

REFERENCES

- Dr.Nirmal Baran Hui, Professor, Department of Mechanical Engineering , National Institute of Technology Durgapur, Email: nirmal.hui@me.nitdgp.ac.in
- Dr. Diptendu Sinha Roy, Associate Professor, Department of Computer Science and Engineering , National Institute of Technology Meghalaya, Email: diptendu.sr@nitm.ac.in
- Prof. Xiao-Zhi Gao, Professor, School of Computing, Kuopio Campus, University of Eastern Finland, Email: xiao-zhi.gao@uef.fi