

Teacher's Profile

General Information

Name : Krishna Daripa
Designation : Asst. Professor
Head of the Department
Department : Computer Science
Institute Name : Sarsuna College
Contact details : Email-
krishnadaripa123@gmail.com



Institutional Address-
Computer Science Department
Sarsuna College, 4/HB/A,
Ho-Chi-Minh Sarani
Sarsuna Upanagari
Sarsuna
Kolkata 700061

Specialization : Algorithm Design, Graph Algorithms

Academic Qualification

Degree	University	Year	Remarks
B.Sc. (Hons.) Computer Science	The University of Burdwan	2012	Ranked 1 st in the University
M.Sc. Computer Science	Visva-Bharati University	2014	Ranked 1 st in the University
Ph.D.	Visva-Bharati University	Pursuing	

Special Achievements:

- ✓ Ranked 1st in the University of Burdwan in B.Sc. Computer Science Honours.
- ✓ Ranked 1st in the Visva-Bharati University in M.Sc. Computer Science.
- ✓ Awarded **INSPIRE** Fellowship by the **Department of Science and Technology (DST), Govt. of India.**

Additional qualification:

- ✓ Qualified **Graduate Aptitude Test in Engineering, GATE.**
- ✓ Qualified **State Eligibility Test, SET.**
- ✓ Qualified **National Eligibility Test, NET.**

Professional Information

- ✓ Joined Sarsuna College in the year 2016.
- ✓ Teaching Undergraduate and **Post Graduate** courses in the Computer Science department of Sarsuna College since 2016.
- ✓ Working as Head of the Computer Science Department of Sarsuna College since April, 2018.
- ✓ Working as AISHE Nodal Officer of Sarsuna College since 2018-2019.
- ✓ Working as Convener of Sarsuna College Admission Committee since 2019-2020.

Member of Scientific, Professional Societies and others:

- ✓ Life Member of **Computer Society of India, CSI.**

- ✓ Member of **Post Graduate Board of Studies** in Computer and Information Science, **University of Calcutta**.
- ✓ Reviewed research articles of the journal **IEEE Transactions on Reliability**.
- ✓ Reviewed research articles of the journal **SN Computer Science**.
- ✓ Reviewed research articles of the journal **Soft Computing**.
- ✓ Reviewed research articles of the journal **Journal of Intelligent & Fuzzy Systems**.
- ✓ Reviewed research articles of the journal **Journal of Mathematics**.

Research Publication

Journal/Conference Publication:

- ✓ S. Roy, **K. Daripa** and A. K. Datta, "*K-Terminal Reliability of d-Trapezoid Graphs*" in **IEEE Transactions on Reliability**, vol. 65, no. 3, pp. 1240-1247, Sept. 2016, doi: 10.1109/TR.2016.2570555, <https://doi.org/10.1109/TR.2016.2570555> .
- ✓ A. Sarkar, **K. Daripa**, M. Z. Khan and A. Noorwali, "*Cloud enabled Blockchain-based secured communication in mutual intelligent transportation using neural synchronization*", **Vehicular Communications**, Volume 38, 2022, 100533, ISSN 2214-2096, <https://doi.org/10.1016/j.vehcom.2022.100533>, (<https://www.sciencedirect.com/science/article/pii/S2214209622000808>)
- ✓ **K. Daripa**, "*Spanning cactus existence in generalized Petersen graphs*" **Innovations in Systems and Software Engineering** (2022). <https://doi.org/10.1007/s11334-022-00494-y>

- ✓ A. Sarkar, **K. Daripa**, M. Z. Khan and A. Noorwali, “*An efficient group synchronization of chaos-tuned neural networks for exchange of common secret key*”, **Soft Computing**, 2023, ISSN 1433-7479, <https://doi.org/10.1007/s00500-023-08808-3> , (<https://link.springer.com/article/10.1007/s00500-023-08808-3>) .
- ✓ C. Debnath, **K. Daripa**, R. Mondal and A. K. Datta, “*Spanning Cactus Existence, Optimization and Extension in Windmill Graphs*” In: Das, N., Binong, J., Krejcar, O., Bhattacharjee, D. (eds) Proceedings of International Conference on Data, Electronics and Computing. ICDEC 2022. **Algorithms for Intelligent Systems**. 2023, Springer, Singapore. ISBN 978-981-99-1508-8 https://doi.org/10.1007/978-981-99-1509-5_5 . (https://link.springer.com/chapter/10.1007/978-981-99-1509-5_5)
- ✓ **K. Daripa**, C. Debnath and A. Karmakar, “*Spanning Cactus Existence Problem on Flower Snark Graphs*” In: Dasgupta, K., Mukhopadhyay, S., Mandal, J.K., Dutta, P. (eds) Computational Intelligence in Communications and Business Analytics. CICBA 2023. **Communications in Computer and Information Science**, vol 1956. Springer, Cham. ISBN 978-3-031-48878-8 https://doi.org/10.1007/978-3-031-48879-5_6 (https://link.springer.com/chapter/10.1007/978-3-031-48879-5_6)
- ✓ **K. Daripa**, “*Spanning cactus in Desargues graph*” in Intelligent Application of Recent Innovation in Science & Technology, IARIST-2K22 (Accepted & presented, yet to be published).

Organizing/Program/Technical Committee Member:

- ✓ Technical Committee member of 1st NATIONAL HACKATHON on *Self-Reliance Based Intelligent India Hackathon (SRIIH 2021)* Organized By **Computer Society of India, Kolkata Chapter** in association with JIS Group Educational Initiatives on the Theme **Post COVID-19 Future World**.

- ✓ Reviewer of *International Conference on Human-Centric Smart Computing (ICHCSC) 2022*, Organized by the University of Engineering & Management, Jaipur, India.
- ✓ Rapporteur of *International Conference on Computational Intelligence & Computing (ICCIC2020ne)* Organized by S R Group of Institutions, Jhansi, (U.P), IETE Kolkata Centre, ESRF Kolkata, Electro-Inventor Hindmotors with Technical Sponsorships IEEE CAS (USA) Kolkata Section, IET(UK) Kolkata Network.

Conference/Workshop/others:

- ✓ Short term training program on *Reliability and Safety Analysis*, organized and hosted by Department of Applied Mathematics, Indian School of Mines, **IIT (ISM) Dhanbad**.
- ✓ *Social Transformation –Digital way*, 52nd Annual Convention, **Computer Society of India, CSI** in conjunction with **National IT Congress**.
- ✓ *IEEE CIS -Intel AI Academy* workshop jointly organized by **Intel** and **IEEE CIS** Kolkata Chapter hosted by Machine Intelligence Unit, Indian Statistical Institute, **ISI Kolkata**.
- ✓ *Some New Research Directions in Machine Learning & Machine Intelligence*, in Technical Collaboration with **IEEE Computational Intelligence Society**, Kolkata Chapter, organized and hosted by Department of Computer & System Sciences, **Visva-Bharati University**.
- ✓ International Seminar on *Intelligent Computing*, in Technical Collaboration with **IEEE Computational Intelligence Society** Kolkata Chapter, at Department of Information Technology, **Jadavpur University**.
- ✓ *Introduction to algorithms with special emphasis to graph algorithms*, Organized by Department of Applied Mathematics with Oceanology and Computer Programming, Vidyasagar University and **Academy of Discrete Mathematics and Applications ADMA**.
- ✓ *Application of Python in Big Data, Natural Language Processing and Social Network Analysis*, organized and hosted by Department of Computer & System Sciences, **Visva-Bharati University**.
- ✓ One day workshop on Syllabus for Computer Science (Honours and General) under CBCS jointly organized by Councils for Under Graduate Studies & Under Graduate Board of Studies in Computer Science, University of Calcutta and Department of Computer Science, The Bhawanipur Education Society College

- ✓ Seminar on Computational Intelligence (CI) organized and hosted by Department of Computer Science, Vivekananda College
- ✓ Seminar on Internet of Things (IOT), EVOLVERE 2019, organized by New Alipore College in collaboration with A K Choudhury School of Information Technology, University of Calcutta.
- ✓ International webinar on “*Remote Sensing: Latest Trends and Perspectives*” Organized by **Computer Society of India**, Student Branch, Assam University, Silchar, in association with Department of Computer Science & Engineering, **Assam University, Silchar**.
- ✓ **2020 Second Doctoral Symposium on Intelligence Enabled Research (DoSIER 2020)**, technically sponsored by **IEEE Computational Intelligence Society**, Kolkata Chapter and organized by **Visva Bharati University**, Santiniketan, India.
- ✓ International Faculty Development Program on “*Technologies for societal needs. Real time Applications of AI, ML and Research Initiatives*” Jointly organized by Department of Computer Science and Engineering, **Karunya Institute of technology and Sciences**, Tamil Nadu, India & Department of Computer Science and Engineering, **North Eastern Regional Institute of Science and Technology**, Arunachal Pradesh, India.
- ✓ International Webinar on “*Advances in Machine Learning*” organized by Department of Computer Science in collaboration with IQAC, **West Bengal State University**, Barasat, West Bengal, India.
- ✓ **IEEE Computational Intelligence Society Distinguished Lecture** sponsored by the **IEEE Computational Intelligence Society** under its Distinguished Lecturer Program jointly organized by the Department of Computer Sciences, **University of Gour Banga** and **IEEE Computational Intelligence Society**, Kolkata Chapter.
- ✓ International webinar on “*State of the art and future of Text Mining*” organized by the Department of Computer and System Sciences, Siksha Bhavana, **Visva-Bharati University**, Santiniketan and technically sponsored by **IEEE Computational Intelligence Society**, Kolkata Chapter.
- ✓ **IEEE Computational Intelligence Society Distinguished Lecture Program** on “*Recent Advances in Swarm Intelligence and Robotics*” organized by the Department of Information Technology, **RCC Institute of Information Technology**, Kolkata, India in association with **IEEE Computational Intelligence Society (CIS)** Kolkata Chapter.

- ✓ IEEE Computational Intelligence Society Distinguished Lecture Program on “*How big is too big? Clustering in (static) BIG DATA with the Fantastic 4*”, organized by the Department of Computer & System Sciences, **Visva-Bharati**, India in association with **IEEE Computational Intelligence Society (CIS)** Kolkata Chapter.
- ✓ Invited Lecture Series on “*National Education Policy, 2020: Higher education, Research and Innovation*” organized by Vidyasagar University Teachers’ Association (VUTA), **Vidyasagar University**, Midnapore, West Bengal.
- ✓ International Webinar on “*Understanding Conflict: Internal and International, through the Lens of Natural Language Processing*”, organized by the Department of Computer Science and Engineering, **NIT Patna**, India in association with **IEEE Computational Intelligence Society (CIS)** Kolkata Chapter.
- ✓ National Webinar on “Importance of Soft-skill Development in the age of New Normal” organized by Computer Society of India, Kolkata Chapter.
- ✓ IEEE Distinguished Lecturers on “**Decision Science Inspired by Nature**”, organized by the Department of Computer Science and Engineering, **NIT Patna**, India in association with **IEEE Computational Intelligence Society (CIS)**, Kolkata Chapter.
- ✓ International Conference on “*Computational Intelligence in Communications and Business Analytics (CICBA-2021)*” organized by Department of Computer & System Sciences, **Visva-Bharati University**.
- ✓ International Webinar titled “*Wi-Fi 7 - Leading Wi-Fi to Next Generation Intelligent Wireless Networks*” organized by the Department of Computer and System Sciences, **Visva-Bharati**, India in association with **IEEE Computational Intelligence Society (CIS)** Kolkata Chapter.
- ✓ IEEE CIS Distinguished Lecturers on “*Evolutionary Machine Learning*” organized by the Department of Computer and System Sciences, **Visva-Bharati**, India in association with **IEEE Computational Intelligence Society (CIS)** Kolkata Chapter and **IEEE** Kolkata section.
- ✓ Webinar on “*Cyber Security Requirements In The National Critical Infrastructure*” organized by **Computer Society of India**, Kolkata Chapter.
- ✓ International Seminar on “*Research Methodology - Contemporary Challenges (RMCC 2022)*” Organized By **Assam University**, Silchar in Technical Collaboration With IEEE Kolkata Section & CSI Student Branch, Assam University.

- ✓ National Seminar on “*Computational Intelligence and Internet of Things*” organized by University of Calcutta.
- ✓ Webinar on “*Contemporary Advances in Computational Intelligence*” organized by the Department of Computer and System Sciences, **Visva-Bharati**, India in association with **IEEE Computational Intelligence Society (CIS)** Kolkata Chapter.
- ✓ IEEE Computational Intelligence Society (CIS) Distinguished Lecture Program (DLP) on “*Evolutionary Multi Objective Optimization and some of its Applications in Image Processing*” organized by the Department of Computer and System Sciences, **Visva-Bharati**, India in association with **IEEE Computational Intelligence Society (CIS)** Kolkata Chapter.