

CURRICULUM VITAE

Dr. Giridhar Maji

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Personal Statement

A dedicated, detailed and capable researcher with more than fifteen years of experience in industry, research and teaching. Extensively published in the areas of social network analysis and epidemic propagation in reputed SCI(E) journals, with related expertise in *Influential spreader identification*, and *Influence Maximization*. *Information security*, especially, *Steganography* is another research interest with substantial publications in the security journals. A confident presenter at conferences and teacher in classrooms and online mode, able to explain complex information to audiences of all levels.

Research Interests: *Data Analytics, Predictive Data Mining, Recommender systems, Complex network analysis, Information security and Steganography*

Thesis Title: *Data Driven Methodologies For Business Modelling And Intelligence*

Google Scholar Profile: <https://scholar.google.co.in/citations?user=gW9euvwAAAAJ>

Institute Work Profile: <https://sites.google.com/site/asansolgovtpolytechnic/courses/department-of-electrical-engineering/giridhar-maji>

(a) Educational Qualification

University of Calcutta	Kolkata, IN	Information Technology	Ph.D., 2023
University of Calcutta	Kolkata, IN	Comp.Sc.& Applications	M.Tech., 2015
ICFAI University	Tripura, IN	Marketing	MBA, 2014
National Institute of Technology	Durgapur, IN	Electrical Engineering	B.Tech., 2007

(b) Research & Work Experience

13/08/2018 – 20/01/2022	Head of the Department, EE, Asansol Polytechnic, India
16/01/2014 – Present	Lecturer, Asansol Polytechnic, Asansol, India
15/11/2010 – 2014	Associate Projects, Cognizant Technology Solutions, USA
11/07/2007 – 10/11/2010	Assistant System Engineer, Tata Consultancy Services, India

(c) Editorial & Review Activities

Academic Editor :

PLOS ONE: eISSN:1932-6203; <https://journals.plos.org/plosone/>, Indexed by: Scopus, WOS, PubMed (Since January, 2023)

Member of Editorial Review Board :

International Journal of Information Security and Privacy (IJISP): ISSN:1930-1650; Indexed by: Scopus, ESCI (Since 2019)

Reviews for the following :

1. *Complexity, Wiley-Hindawi*: ISSN: 1076-2787; Indexed by: WoS, Scopus, SCIE (Reviewer since 2023)
2. *Scientific Reports, Springer-Nature*: ISSN: 2045-2322 (online); Indexed by: WoS, Scopus, SCIE (Reviewer since 2023)
3. *Chaos, Solitons & Fractals, Elsevier*: ISSN: 0960-0779; Indexed by: WoS, Scopus, SCI (Reviewer since 2022)
4. *Applied Mathematical Modelling, Elsevier*: ISSN: 0307-904X; Indexed by: Scopus, SCIE (Reviewer since 2022)
5. *IEEE Transactions on Circuits and Systems I: Regular Papers* :ISSN: 1558-0806 (online), 1549-8328 (print); Indexed by : SCI (Reviewer since 2022)
6. *Journal of Computational Science, Elsevier*: ISSN: 1877-7503; Indexed by: Scopus, SCIE (IF-5.336) (Reviewer since 2022)
7. *International Journal of Information Technology & Decision Making (IJITDM), World Scientific*: ISSN: 0219-6220 (print) | 1793-6845 (online); Indexed by: Scopus, SCIE, DBLP (Reviewer since 2021)
8. *Soft Computing (SOCO), Springer*: ISSN:1432-7643; Indexed by: Scopus, SCIE, DBLP (Reviewer since 2021)
9. *Expert Systems With Applications, Elsevier*: ISSN:0957-4174; Indexed by: Scopus, SCIE, SCI (Reviewer since 2020)
10. *Nonlinear Dynamics, Springer*: ISSN:1573-269x Indexed by: SCI, Scopus, SCIE
11. *Journal of The Institution of Engineers (India): Series B*: ISSN:2250-2106; Indexed by:

Scopus, SCImago (Reviewer since 2018)

12. *International Journal of Information Security and Privacy (IJISP)*: ISSN:1930-1650; Indexed by: Scopus, ESCI (Reviewer since 2018)
13. *International Journal of Software Innovation (IJSI)* : ISSN: 2166-7160 Indexed by: Web of Science Emerging Sources Citation Index (ESCI), SCOPUS, INSPEC.
14. *Cogent Economics & Finance, Taylor & Francis*: ISSN: 2332-2039; Indexed by: Scopus, ESCI (Reviewer since 2022)
15. *Indonesian Journal of Electrical Engineering and Computer Science*: ISSN: 2502-4752; Indexed by: Scopus, ESCI (Reviewer since 2021)

PC Member and Reviewer :

- *Technical Committee Member of 2023 International Conference on Computational Intelligence and Communication System (CCICS-2023), to be held in Central China Normal University, Wuhan, China, on December 28 – 29, 2023*
- *Reviewer of 2023 The 5th International Conference on Computational Intelligence in Pattern Recognition (CIPR-2023), be held in Saltlake, Kolkata, India, from May 27 – 28, 2023*
- *PC Member of 2023 International Conference on Computer Engineering and Artificial Intelligence (ICCEAI 2023), be held in Qingdao, Shandong, China, from July 7 to 9, 2023*
- *PC member and reviewer for 3rd International Conference on Emerging Technologies in Data Mining and Information Security, Kolkata, India, February 23-25, 2022 (IEMIS 2022)*
- *Member of Technical Program Committee of International Conference on Bio and Neuroinformatics model, methods and Algorithms, Kolkata, Dec 6-7, 2021 (ICBNA 2021)*
- *Member of Advisory Program Committee of International Conference on Cyber Intelligence and Information Retrieval, Kolkata, May 20-21, 2021 (CIIR 2021)*
- *PC Member of 2021 International Conference on Computer Engineering and Artificial Intelligence (ICCEAI 2021), Shanghai, China, from August 27 to 29, 2021*
- *PC member and reviewer for International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2020)*

(d) Professional Membership

Life member of Institution of Engineers (India) [M 157506-0]

(e) Awards & Recognitions

- 2015 University second rank holder during M. Tech at University of Calcutta
- 2014 & 2015 Qualified UGC NET Lecturership two times
- 2013 Guiding Star award at Congizant Technology Solutions for training new Joiners
- 2012 Dream Team award at Congizant Technology Solutions for the best project team
- 2010 Client Appreciation at Tata Consultancy Services
- 2008 Oracle Certified Java Professional (Java 1.5)
- 2004 Merit certificate during B. Tech at NIT Durgapur

(f) Publications

International Journals

1. Giridhar Maji and Soumya Sen. Ranking influential nodes in complex network using edge weight degree based shell decomposition. *Journal of Computational Science*, page 102179, 2023. doi: 10.1016/j.jocs.2023.102179.
2. Giridhar Maji, Sharmistha Mandal, and Soumya Sen. Identification of city hotspots by analyzing telecom call detail records using complex network modeling. *Expert Systems with Applications*, page 119298, 2022. doi: 10.1016/j.eswa.2022.119298.
3. Giridhar Maji and Soumya Sen. Finding optimal transport route and retail outlet location using mobile phone location data. *International Journal of Software Innovation (IJSI)*, 10 (1):1–20, 2022. doi: 10.4018/IJSI.301226.
4. Sharmistha Mandal, Giridhar Maji, Sunirmal Khatua, and Rajib K Das. Cost minimizing reservation and scheduling algorithms for public clouds. *IEEE Transactions on Cloud Computing*, 11(2):1365–1380, 2021. doi: 10.1109/TCC.2021.3133464.
5. Giridhar Maji, Animesh Dutta, Mariana Curado Malta, and Soumya Sen. Identifying and ranking super spreaders in real world complex networks without influence overlap. *Expert Systems with Applications*, 179:115061, 2021. doi: 10.1016/j.eswa.2021.115061.
6. Giridhar Maji, Debomita Mondal, Nilanjan Dey, Narayan C Debnath, and Soumya Sen. Stock prediction and mutual fund portfolio management using curve fitting techniques. *Journal of Ambient Intelligence and Humanized Computing*, 12(10):9521–9534, 2021. doi: 10.1007/s12652-020-02693-6.
7. Giridhar Maji, Sharmistha Mandal, and Soumya Sen. Cover image independent image steganography in spatial domain using higher order pixel bits. *Multimedia Tools and Applications*, 80:15977–16006, 2021. doi: 10.1007/s11042-020-10298-6.
8. Giridhar Maji and Sharmistha Mandal. A forward email based high capacity text steganography technique using a randomized and indexed word dictionary. *Multimedia Tools and Applications*, pages 1–21, 2020. doi: 10.1007/s11042-020-09329-z.

9. Giridhar Maji, Sharmistha Mandal, and Soumya Sen. A systematic survey on influential spreaders identification in complex networks with a focus on k-shell based techniques. *Expert Systems with Applications*, 161:113681, 2020. doi: 10.1016/j.eswa.2020.113681.
10. Giridhar Maji, Amrita Namtirtha, Animesh Dutta, and Mariana Curado Malta. Influential spreaders identification in complex networks with improved k-shell hybrid method. *Expert Systems with Applications*, 144:113092, 2020. doi: 10.1016/j.eswa.2019.113092.
11. Giridhar Maji. Influential spreaders identification in complex networks with potential edge weight based k-shell degree neighborhood method. *Journal of Computational Science*, 39: 101055, 2020. doi: 10.1016/j.jocs.2019.101055.
12. Giridhar Maji, Sharmistha Mandal, and Soumya Sen. Dual image-based dictionary encoded data hiding in spatial domain. *International Journal of Information Security and Privacy (IJISP)*, 14(2):83–101, 2020. doi: 10.4018/IJISP.2020040105.
13. Debomita Mondal, Giridhar Maji, Takaaki Goto, Narayan C Debnath, and Soumya Sen. A data warehouse based modelling technique for stock market analysis. *International Journal of Engineering & Technology*, 3(13):165–170, 2018.

Book chapters and full length conference publications

14. Lalmohan Dutta, Giridhar Maji, and Soumya Sen. A study on spatiotemporal topical analysis of twitter data. In *Emerging Technology in Modelling and Graphics*, pages 699–711. Springer, 2020.
15. Sharmistha Mandal, Sk Shahryar Saify, Anurita Ghosh, Giridhar Maji, Sunirmal Khatua, and Rajib K Das. An approach to cost minimization with ec2 spot instances using vm based migration policy. In *International Conference on Distributed Computing and Internet Technology*, pages 96–110. Springer, 2022.
16. Giridhar Maji, Lalmohan Dutta, and Soumya Sen. Targeted marketing and market share analysis on pos payment data using dw and olap. In *Emerging Technologies in Data Mining and Information Security*, pages 189–199. Springer, 2019.
17. Giridhar Maji, Sharmistha Mandal, Narayan C Debnath, and Soumya Sen. Pixel value difference based image steganography with one time pad encryption. In *2019 IEEE 17th International Conference on Industrial Informatics (INDIN)*, volume 1, pages 1358–1363. IEEE, 2019.
18. Giridhar Maji, Sharmistha Mandal, Narayan C Debnath, and Soumya Sen. A novel delivery model to expand e-commerce customers based on telecom data mining. In *CATA*, pages 336–344, 2019.
19. Achyut Ghosh, Soumik Bose, Giridhar Maji, Narayan Debnath, and Soumya Sen. Stock price prediction using lstm on indian share market. In *Proceedings of 32nd International Conference on*, volume 63, pages 101–110, 2019.
20. Lalmohan Dutta, Giridhar Maji, Partha Ghosh, and Soumya Sen. An integrated blood donation campaign management system. In *Contemporary Advances in Innovative and Applicable Information Technology*, pages 133–143. Springer, 2019.
21. Giridhar Maji, Sharmistha Mandal, Soumya Sen, and Narayan C Debnath. Dual image based lsb steganography. In *2018 2nd International Conference on Recent Advances in Signal Processing, Telecommunications & Computing (SigTelCom)*, pages 61–66. IEEE, 2018.

22. Giridhar Maji, Narayan C. Debnath, and Soumya Sen. Data warehouse based analysis with integrated blood donation management system. In *2018 IEEE 16th International Conference on Industrial Informatics (INDIN)*, pages 855–860. IEEE, 2018.
23. Giridhar Maji, Soumya Sen, and Amitrajit Sarkar. Share market sectoral indices movement forecast with lagged correlation and association rule mining. In *IFIP International Conference on Computer Information Systems and Industrial Management*, pages 327–340. Springer, 2017.
24. Giridhar Maji, Sharmistha Mandal, Soumya Sen, and Narayan C Debnath. A conceptual model to implement smart bus system using internet of things (iot). pages 1–12, 2017.
25. Giridhar Maji, Sharmistha Mandal, Souvik Bhattacharya, and Soumya Sen. Designing combo recharge plans for telecom subscribers using itemset mining technique. In *2017 IEEE International Conference on Industrial Technology (ICIT)*, pages 1232–1237. IEEE, 2017.
26. Giridhar Maji and Soumya Sen. Data warehouse based analysis on cdr to retain and acquire customers by targeted marketing. In *2016 5th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions)(ICRITO)*, pages 221–227. IEEE, 2016.
27. Giridhar Maji and Soumya Sen. A data warehouse based analysis on cdr to depict market share of different mobile brands. In *2015 Annual IEEE India Conference (INDICON)*, pages 1–6. IEEE, 2015.

(g) References

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