

Dr. Chhabi Rani Panigrahi



Designation: Asst. Professor

Qualification: M.Tech (CSE), Ph.D (CSE) IIT Kharagpur

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SCOPUS: <https://www.scopus.com/authid/detail.uri?authorId=35810907800>

ResearchGate: <https://www.researchgate.net/profile/Chhabi-Panigrahi>

DBLP: <https://dblp.org/pid/60/9099.html>

Area of Interest

- Mobile Cloud Computing
- Machine Learning
- Testing Object Oriented Programs

Courses taught

Cloud Computing, Object Oriented Programming using C++, Database Systems & Implementations, Web Technologies, Programming in C and Data Structure, Soft Computing, Software Engineering, Operating Systems

Career

Assistant Professor (June 2018-present): Rama Devi Women's University, Bhubaneswar

Assistant Professor (2016-2018): Central University of Rajasthan, Rajasthan

Associate Professor (2013-2016): C. V. Raman College of Engineering, Bhubaneswar

Assistant Professor (2001-2012): Seemanta Engineering College, Mayurbhanj

Teaching Experience

22 years

Research Experience

15 years

Administrative/Executive Experience (only prominent/statutory roles including membership of academic council/syndicate/board of studies. Avoid mere membership in committees)

1. *Coordinator*, Department of Mathematics, Sept. 2022 to till date
2. *Member*, BoS, Department of Computer Science, Rama Devi Women's University, Bhubaneswar, 2018 to till date
3. *Member*, BoS, Department of Mathematics, Rama Devi Women's University, Bhubaneswar, 2023 to till date
4. *Co-ordinator*, e-Learning Centre, Rama Devi Women's University, Bhubaneswar, 1st July 2018 to Sept. 2022
5. *Nodal Officer*, All India Survey of Higher Education (AISHE), Rama Devi Women's University, Bhubaneswar, Dec. 2019 to Sept. 2022.
6. *Nodal Officer*, Association of Indian Universities (AIU), Rama Devi Women's University, Bhubaneswar, Dec. 2019 to Sept. 2022.
7. *OIC, University Website*, Rama Devi Women's University, Bhubaneswar, Feb. 2020 to Sept. 2022

Awards & Honors (including travel support award)

1. Fellowship during Ph.D, MHRD, India (2009-2013)

Research Guidance

- ✓ PhD thesis supervised : **02 (TWO)**
- ✓ M Tech/M.Phil thesis supervised : M. Tech:**06 (SIX)**, M. Phil: **02 (TWO)**
- ✓ M.Sc. thesis supervised : **35 (THIRTY FIVE)**

Research Grants (All research grants including seed funds)

S. No	Title of the project	Funding Agency	Amount	Sanction year & duration
1	An IoMT-Enabled Smart Healthcare Model to Monitor Critical Patients Using Deep Learning Algorithms	DST, Govt. of Odisha	9.22 Lakhs	2022 (Three Years)

Publications

Patents (Entire list of patents/copyrights etc.)

Patent no.	Patent type	Patent title	Year of filing	Name of Inventor(s)	Status
2020102321	Australian Patent	DATALET: AN APPROACH TO MANAGE BIG VOLUME	2020	B. Pati, C. Panigrahi <i>et al.</i>	Published

		OF DATA IN CYBER FORAGED ENVIRONMENT			
202131052675 A	Indian Patent	AN IOT BASED CHILD HEALTH MONITORING SYSTEM FOR RURAL AREA AND METHOD	2021	S.Nayak, S.Parida, B.Pati, C.Panigrahi <i>at al.</i>	Published

Journal publications (Give the entire list of publication in Scopus/SCI-WoS/UGC care only)

1. Panda B., **Panigrahi C. R.**, Pati B. (2023). Patient reviews analysis using machine learning, International Journal of Computational Science and Engineering, Inderscience [SCOPUS].
2. Bebortta S., Senapati D, **Panigrahi C.**, Pati B. (2022). An adaptive performance modeling framework for QoS-aware offloading in MEC-based IIoT systems, IEEE Internet of Things Journal [SCOPUS, SCI, Impact Factor: 10.238].
3. Behera A., Behera S., **Panigrahi C. R.**, Weng T-H. (2022). Using unstructured logs generated in complex large scale micro-service-based architecture for data analysis, International Journal of Business Intelligence and Data Mining, Inderscience, DOI: 10.1504/IJBIDM.2022.10043252 [SCOPUS].
4. Bebortta S., Senapati D, **Panigrahi C.**, Pati B. (2022). An adaptive modeling and performance evaluation framework for edge-enabled green IoT systems IEEE Transactions on Green Communications and Networking [SCOPUS, SCI, Impact Factor: 3.525].
5. Sarkar J.L., Ramasamy V, Majumder A., Pati B., **Panigrahi C. R.**, Wang W., Qureshi NMF, Su C., Dev K.(2022). I-Health: SDN-Based Fog Architecture for IIoT Applications in Healthcare, IEEE/ACM Transactions on Computational Biology and Bioinformatics, pp. 1-8, DOI: 10.1109/TCBB.2022.3193918 [SCOPUS].
6. Parida S., Pati B., Nayak S.C., **Panigrahi C. R.** (2022). eMRA: an efficient multi-optimization based resource allocation technique for infrastructure cloud, Journal of Ambient Intelligence and Humanized computing, pp. 1-19, Springer [SCOPUS].
7. Sarkar J.L., Majumder A., **Panigrahi C.R.**, Roy S., Pati B. (2022). Tourism recommendation system: a survey and future research directions, Multimedia Tools and Applications, pp. 1-45, Springer [SCOPUS].
8. Pattanaik S., Sahoo B.K., **Panigrahi C. R.**, Patnaik B.K., Pati B. (2022). Test Case Generation using Symbolic Execution, Computación y Sistemas, 26(2) [SCOPUS].
9. Trivedi R., Pati B., **Panigrahi C.R.** (2022). wPOI: Weather-Aware POI Recommendation Engine. Computación y Sistemas, 26(2) [SCOPUS].
10. Bebortta S., Dalabehera A.R., Pati B., **Panigrahi C.R.**, Nanda G.R., Sahu B., Senapati D. (2022). An intelligent spatial stream processing framework for digital forensics amid the COVID-19 outbreak. Smart Health, Elsevier [SCOPUS].
11. **Panigrahi C. R.**, Sarkar J. L., and Pati B. (2021). CPDA: A Conflict-free Periodic Data Aggregation Technique in Wireless Sensor Networks, Egyptian Informatics Journal, Elsevier, ISSN: 1110-8665, Vol. 22(3). pp. 357-362 [SCOPUS, SCI, Impact Factor: 3.943].

12. Nayak S., **Panigrahi C. R.**, Pati B., Nanda S., Hsieh Meng-Yen (2021). Comparative Analysis of HAR Datasets using Classification Algorithms, COMSIS Journal, 19(1) Pages: 43-43 [SCOPUS, SCI, Impact Factor: 1.167].
13. Sarkar J. L., Ramasamy V, Majumder A. , **Panigrahi C. R.**, Pati B., Saha A. K. (2021) SensMask: An Intelligent Mask for Assisting Patients During COVID-19 Emergencies. Computación y Sistemas, 25(3), pp. 483–492, ISSN 2007-9737 [SCOPUS]
14. **Panigrahi C. R.**, Sarkar J.L., Pati B., Buyya R., Mohapatra P., Majumder A. (2021), Mobile Cloud Computing and Wireless Sensor Networks: A review, integration architecture, and future directions, IET Networks, [SCOPUS].
15. Ramasamy V, Gomathy B, Sarkar J. L., **Panigrahi C. R.**, Pati B., Majumder A. (2021), DCQSH: Dynamic Conflict-Free Query Scheduling in Heterogeneous Networks during Emergency, Computación y Sistemas, 25(1), pp. 117-128 [SCOPUS].
16. Sarkar J.L., Majumder A., **Panigrahi C. R.**, Roy S. (2020), MULTITOUR: A multiple itinerary tourists recommendation engine, Journal of Electronic Commerce Research and Applications, Elsevier, 2020, [SCOPUS, SCI, Impact Factor: 6.014].
17. Banerjee A., Pujari A.K., Pati B., **Panigrahi C. R.** (2020), A new unsupervised method for boundary perception and word-like segmentation of sequence, International Journal of Computational Science and Engineering, Inderscience, DOI: 10.1504/IJCSE.2020.111437,23(3), pp. 286-295 [SCOPUS].
18. Rath M., Pati B., **Panigrahi C. R.**, Peng S-L.(2020),Control of Congestion and Traffic Lights Using Intelligent Approaches in Smart City, International Journal of Wireless and Mobile Computing, Inderscience, [SCOPUS].
19. Banerjee A., Pujari A.K., **Panigrahi C. R.**, Pati B., Nayak S.C. and Weng T-H (2020). A new method for weighted ensemble clustering and coupled ensemble selection, Connection Science Journal.[SCOPUS, SCI, Impact Factor: 1.042].
20. Nanda S., **Panigrahi C.R.**, Pati B. (2020), Emergency management systems using mobile cloud computing: A survey, International Journal of Communication Systems, e4619, [SCOPUS, SCI, Impact Factor: 2.047].
21. Ramasamy V., Gomathy B., Sarkar J.L., **Panigrahi C. R.**, Pati B., Majumder A. (2020). EMC2: An Emergency Management System Using Mobile Cloud Computing. IET Network, 9(2), pp.64-73. [SCOPUS, Impact Factor: 2.58].
22. Verma R. K., **Panigrahi C. R.**, Pati B., Joy Lal Sarkar (2019). mMedia: an Efficient Transmission Policy for Multimedia Applications Using Mobile Cloud Computing, International Journal of Sensors, Wireless Communications and Control, 9(1), pp. 32-44, ISSN: 2210-3279 [SCOPUS].
23. Verma R. K., **Panigrahi C. R.**, Pati B, Sarkar J. L., and Majumder A. (2019). A Mobile Cloudlet Assisted Architecture for Handling Multimedia Applications. Computacion y Sistemas, Vol. 23, No. 4, 1261-1273 [SCOPUS].
24. Mohapatra S., **Panigrahi C. R.**, Pati B., Mishra M. (2019). MSA: a task scheduling algorithm for cloud computing, International Journal of Cloud Computing, Inderscience [SCOPUS].
25. Nayak S.C., Parida S., Tripathy C., Mohanty S.,Pati B., **Panigrahi C. R.** (2019). Multicriteria decision-making techniques for avoiding similar task scheduling conflict in cloud computing, International Journal of Communication Systems, [SCOPUS, SCI, Impact Factor: 2.047].
26. Sarkar J.L., **Panigrahi C.R.**, Pati B., Saha A.K., Majumdar A. (2019). MAAS: A Mobile Cloud Assisted Architecture for Handling Emergency Situations. International Journal of Communication Systems, Wiley, [SCOPUS, SCI, Impact Factor: 2.047].

27. **Panigrahi C. R., Sarkar J. L., Tiwary M., Pati B., Mohapatra P.** (2019). DATALET: Approach to Manage Big Volume of Data in Cyber Foraged Environment. *Journal of Parallel and Distributed Systems*, Elsevier, vol. 131, pp. 14-28, ISSN: 0743-7315, [SCOPUS, SCI, Impact Factor: 3.734].
28. **Pati B., Panigrahi C. R., Sarkar J.L.** (2018). CETM: a conflict-free energy efficient transmission policy in mobile cloud computing. *International Journal of Communication Networks and Distributed Systems*, Inderscience, 20(2): pp. 129-142. [SCOPUS].
29. **Bisoyi S. K., Patnaik P., Pati B., and Panigrahi C. R.** (2018). Design and Analysis of a Stable AQM Controller for Network Congestion Control, *International Journal of Communication Networks and Distributed Systems*, Inderscience, 20(2), pp. 143-167, ISSN: 1754-3916. [SCOPUS].
30. **Panigrahi C. R., Sarkar J. L., Pati B.** (2018). Transmission in Mobile Cloudlet Systems with Intermittent Connectivity in Emergency Areas. *Digital Communications and Networks*, Elsevier, 4(1), pp. 69-75, ISSN: 2352-8648. [SCOPUS, SCIE, Impact Factor: 6.797].
31. **Pati B., Sarkar J. L., and Panigrahi C. R.** (2017). ECS: An Energy Efficient Approach to Select Cluster-Head in Wireless Sensor Networks, *Arabian Journal for Science and Engineering*, Springer, Vol. 42 (2), pp. 669-676, ISSN: 2191-4281 [SCOPUS, SCI, Impact Factor: 2.334].
32. **Rath M., Pattanayak B.K., Pati B., Panigrahi C. R., and Sarkar J. L.** (2016), Load Balanced Routing Scheme for MANET with Power Optimization, *International Journal of Communication Networks and Distributed Systems*, Inderscience, Vol. 19(4), ISSN:1754-3916, pp. 394-405, [SCOPUS].
33. **Panigrahi C. R. and Mall R.** (2015). Regression Test Size Reduction Using Improved Precision Slicing. *Innovations in Systems and Software Engineering (ISSE)*, A NASA Journal, Springer, ISSN: 1614-5046, Vol. 12(2), pp.153-159. [SCOPUS].
34. **Panigrahi C. R. and Mall R.** (2014). A Heuristic-Based Regression Test Case Prioritization Approach for Object-Oriented Programs. *Journal of Innovations in Systems and Software Engineering (ISSE)*, A NASA Journal, Springer, ISSN: 1614-5046, 10(3), 155-163. [SCOPUS].
35. **Panigrahi C. R. and Mall R.** (2013). An Approach to Prioritize the Regression Test Cases of Object-Oriented Programs. *Journal of CSI Transactions on ICT*, Springer, ISSN: 2277-9078, 1(2), pp. 159-173. [SCOPUS].
36. **Das H., Naik B., Pati B., Panigrahi C. R.** (2014). A Survey on Virtual Sensor Networks Framework. *International Journal of Grid and Distributed Computing*, ISSN: 2005-4262, 7(5), pp. 121-130. [SCOPUS].
37. **Panigrahi C. R. and Mall R.** (2012). A Hybrid Regression Test Selection Technique for Object-Oriented Programs. *Intl. Journal of Software Engineering and Its Applications (IJSEIA)*, ISSN: 1738-9984, 6(4), pp. 17-34. [SCOPUS].
38. **Panigrahi C. R. and Mall R.** (2010). Model-Based Regression Test Case Prioritization. *ACM SIGSOFT Software Engineering Notes*, 35(6), pp. 1-9. ISSN: 0163-5948, [SCOPUS].

Book/book chapter Publications **(entire list of books/book chapters)**

1. **Pati B., Panigrahi C.R., Mohapatra P., Li K-C** (2022) *Advanced Computing and Intelligent Engineering*, ISBN 978-9811922244, pp. 1-1089, 21 September 2022 (**Edited Book**) [SCOPUS]

2. *Misra R., Panigrahi C. R. and Bijayalaxmi P.* Principles of Software Engineering and System Design. Yes Dee Publishing Pvt Ltd, ISBN: 978-93-80381-65-7 [**Reference Book**].
3. *Panigrahi C.R., Pati B., Rath M., Buyya R.* (2021). Computational Modeling and Data Analysis in COVID-19 Research, Emerging Trends in Biomedical Technologies and Health informatics, CRC Press, pp. 1-270. eBook ISBN9781003137481, 10 May 2021(**Edited Book**) [SCOPUS].
4. *Panigrahi, C.R., Pati, B., Pattanayak, B.K., Amic, S., Li, K.-C.*, Advanced Computing and Intelligent Engineering, ISBN 978-981-334-299-6, pp. 1-915, 6 February 2021 (**Edited Book**) [SCOPUS]
5. *Panigrahi C.R., Pati B., Mohapatra P., Buyya R., Li K-C* (2020). Advanced Computing and Intelligent Engineering, Springer, ISBN-10: 981156583X, pp. 1-504,10 November 2020 (**Edited Book**) [SCOPUS]
6. *Panigrahi C.R., Pati B., Mohapatra P., Buyya R., Li K-C.* (2020). Advanced Computing and Intelligent Engineering, Springer, ISBN-10: 9811563527. pp. 1-439, 30 October 2020 (**Edited Book**) [SCOPUS]
7. *Pati B., Panigrahi C.R., Buyya R., Li K-C.* (2020). Advanced Computing and Intelligent Engineering, pp. 1-616, Springer, ISBN 978-981-15-1081-6, 6 March 2020 (**Edited Book**) [SCOPUS]
8. *Pati B., Panigrahi C.R., Buyya R., Li K-C.* (2020). Advanced Computing and Intelligent Engineering, Springer, ISBN: 978-981-15-1483-8, pp. 1-598, 4 March 2020 (**Edited Book**) [SCOPUS]
9. *Panigrahi C.R., Pujari A. K., Misra S., Pati B., Li K-C.* (2018). Progress in Advanced Computing and Intelligent Engineering, Springer, ISBN: 978-981-13-0223-7. pp. 1-609, 10 July 2018(**Edited Book**) [SCOPUS]
10. *Pati B., Panigrahi C.R., Misra S., Pujari A. K., Bakshi S. K.* (2019). Progress in Advanced Computing and Intelligent Engineering, Springer, Dec. 23-25, ISBN: 978-981-13-1708-8 , pp. 1-607, 8 January 2019 (**Edited Book**) [SCOPUS].
11. *Banerjee A., Mukherjee S., Panigrahi C.R., Pati B., Mall M.* (2021). Analysis of COVID-19 Data using Consensus Clustering Technique, CRC Press, pp. 17-28, eBook ISBN9781003137481, 10 May 2021 [SCOPUS]
12. *Nanda S., Panigrahi C. R., Pati B. Rath M., Weng T-S.* (2021), COVID-19 Risk Assessment Using the C4.5 Algorithm, Springer, pp. 61-74, 01 May 2021 ISBN: 978-3-030-68935-3 Online ISBN 978-3-030-68936-0 [SCOPUS]
13. *Ramasamy V, Panigrahi C.R., Sarkar J.L., Pati B., Majumder A., Rath M., Peng S-L.* (2021). Application of Deep Learning Strategies to Assess COVID-19 Patients, Springer, pp. 27-43, 01 May 2021, ISBN: 978-3-030-68935-3, Online ISBN 978-3-030-68936-0 [SCOPUS]
14. *Rath M., Pati B., Panigrahi C. R.* (2020), Swarm Intelligence as a Solution for Technological Problems associated with IoT, Elsevier, Paperback ISBN: 9780128182871 eBook ISBN: 9780128182888, 18th August 2020, pp. 21-45 [SCOPUS]
15. *Ramasamy V, Gomathy B, Obulesu O, J.L. Sarkar, Panigrahi C. R., B. Pati and A. Majumder* (2019), Machine Learning Techniques and Tools, Merits and Demerits, AAP, CRC Press. eBook ISBN9781003007210, pp.23-55, May 2020 [SCOPUS]
16. *Panigrahi C. R., Verma R. K., Sarkar J. L. and Pati B.* (2017), Energy-aware Issues for Handling Big Data in Mobile Cloud Computing, Mobile Big Data 2018, pp. 233-256, Springer, Print ISBN 978-3-319-67924-2, Online ISBN 978-3-319-67925-9 01, November 2017 [SCOPUS]

17. **Panigrahi C. R., Mall R., Pati B.** (2017). Chapter: Software Development Methodology for Cloud Computing and Its Impact, Resource Management and Efficiency in Cloud Computing Environments, IGI Global, ISBN13: 9781522517214, pp. 286-307 [SCOPUS]
18. **Misra R., Panigrahi C. R., Panda B., and Pati B.** (2016). Chapter: Software Design, Handbook of Research on Computational Simulation and Modeling in Engineering, IGI Global, ISBN: 978-1-4666-8824-7, pp. 416-456 [SCOPUS]
19. **Panigrahi C. R., Tiwary M., Pati B., and Das H.** (2015). Chapter: Big Data and Cyber Foraging: Future Scope and Challenges, Techniques and Environment for Big Data Analysis – Parallel, Grid, and Cloud Computing, Springer, pp. 75-100, Print ISBN 978-3-319-27518-5, Online ISBN: 978-3-319-27520-8, 06 February 2016 [SCOPUS]
20. **Behera A., Panigrahi C.R., Pati B.** (2021). Unstructured Log Analysis for System Anomaly Detection-A Study, Advances in Data Science and Management, Springer, pp. 497-509. DOI: 10.1007/978-981-16-5685-9_48. [SCOPUS].
21. **Sarkar JL, Majumder A, Panigrahi C.R., Ramasamy V, Mall R.** (2021). TRIPTOUR: A Multi-itinerary Tourist Recommendation Engine Based on POI Visits Interval, 12th International Conference on Computing Communication and Networking Technologies (ICCCNT), IEEE, pp. 1-7. [SCOPUS].
22. **Banerjee A., Pujari A. K., Panigrahi C. R., and Pati B.**(2021). Entropy Based Cluster Selection, 5th International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2020). Advanced Computing and Intelligent Engineering, Proceedings of ICACIE 2020, Springer, Singapore, 25-27 June 2020, pp. 313-321, Print ISBN 978-981-33-4298-9, Online ISBN: 978-981-33-4299-6, vol 1299, Université des Mascareignes (UdM), Mauritius [SCOPUS]
23. **Parida S., Pati B., Nayak S. C., and Panigrahi C.R.,** (2020). JOB-DCA: A Cost Minimizing Jaya Optimization-Based Data Center Allocation Policy for IaaS Cloud Model. Advanced Computing and Intelligent Engineering, Proceedings of ICACIE 2020, Springer, Singapore, 25-27 June, pp. 621-633, Print ISBN978-981-33-4298-9, Online ISBN: 978-981-33-4299-6, vol 1299, Université des Mascareignes (UdM), Mauritius [SCOPUS]
24. **Mohapatra S. D., Nayak S.C., Parida S., Panigrahi C.R., and Pati B.** (2020). COVTrac: Covid-19 Tracker and Social Distancing App, Advanced Computing and Intelligent Engineering, Proceedings of ICACIE 2020, 25-27 June 2020, pp. 607-619, Springer, Singapore, Print ISBN978-981-33-4298-9, Online ISBN: 978-981-33-4299-6, vol 1299, Université des Mascareignes (UdM), Mauritius [SCOPUS]
25. **Biswal A., Nanda S., Panigrahi C. R., Cowlessur S. K., and Pati B.** (2020). Human Activity Recognition Using Machine Learning: A Review, Advanced Computing and Intelligent Engineering, Proceedings of ICACIE 2020, Springer, Singapore, 25-27 June 2020, pp. 323-333, Print ISBN978-981-33-4298-9, Online ISBN: 978-981-33-4299-6, vol 1299, Université des Mascareignes (UdM), Mauritius [SCOPUS]
26. **Singh D., Pati B., Panigrahi C. R., and Swagatika S.** (2020), Security Issues in IoT and their Counter Measures in Smart City Applications, In Proc. of 3rd International Conference on Advanced Computing and Intelligent Engineering, ISBN-10: 9811514828, pp. 301-313. [SCOPUS].
27. **Verma R.K., Singh P., Panigrahi C.R., Pati B.** (2021). ISS: Intelligent Security System using Facial Recognition, Advanced Computing and Intelligent Engineering, Springer, ISBN 978-981-15-6583-0 [SCOPUS].
28. **Sharma S., Saha A. K., Ramasamy V, Sarkar J.L., and Panigrahi C. R.**(2020), hBOSOS: An Ensemble of Buttery Optimization Algorithm and Symbiosis Organisms Search for Global Optimization, In Proc. of 3rd International Conference on Advanced Computing and Intelligent Engineering, ISBN-10: 9811514828, pp. 579-588. [SCOPUS].

29. Mohapatra S., **Panigrahi C. R.**, Pati B., and Mishra M.(2020), A Comparative Study of Task Scheduling Algorithm in Cloud Computing, In Proc. of 3rd International Conference on Advanced Computing and Intelligent Engineering, ISBN-10: 9811514828. [SCOPUS].
30. Verma R. K., **Panigrahi C. R.**, Pati B., and Sarkar J.L. (2020), An Efficient Approach for Running Multimedia Applications Using Mobile Cloud Computing, In Proc. of 3rd International Conference on Advanced Computing and Intelligent Engineering, ISBN-10: 9811514828. [SCOPUS].
31. Banerjee A., Pujari A. K., **Panigrahi C. R.**, Pati B. (2021). Entropy Based Cluster Selection, Progress in Advanced Computing and Intelligent Engineering, Advances in Intelligent Systems and Computing 1299, https://doi.org/10.1007/978-981-33-4299-6_26, pp. 313-321.
32. Biswal A., Nanda S., **Panigrahi C. R.**, Cowlessur S. K., Pati B. (2021). Human Activity Recognition Using Machine Learning: A Review, Progress in Advanced Computing and Intelligent Engineering, Advances in Intelligent Systems and Computing 1299, https://doi.org/10.1007/978-981-33-4299-6_27, pp. 323-333.
33. Mohapatra S. D., Nayak S.C., Parida S., **Panigrahi C.R.**, Pati B. (2021). COVTrac: Covid-19 Tracker and Social Distancing App, Progress in Advanced Computing and Intelligent Engineering, Advances in Intelligent Systems and Computing 1299, https://doi.org/10.1007/978-981-33-4299-6_50, pp. 607-619.
34. Nanda S., **Panigrahi C. R.**, Pati B., and Mishra A. (2020). A Novel Approach to Detect Emergency using Machine Learning, Advanced Computing and Intelligent Engineering, Springer, ISBN 978-981-15-6352-2. [SCOPUS].
35. R. K. Verma, **Panigrahi C. R.**, Ramasamy V., B Pati, P. K. Prasad (2019), MBA: Mobile Cloud Computing Approach for Handling Big Data Applications, In Proc. of 2nd International Conference on Advanced Computing and Intelligent Engineering, Central University of Rajasthan, Springer, Dec. 23-25, ISBN:978-981-13-0223-7. [SCOPUS].
36. Pati B., Sarkar J. L., **Panigrahi C. R.**, Debberma, S., Trivedi R. (2018). E2G: A Game Theory Based Energy Efficient Transmission Policy in Mobile Cloud Computing, International Conference on Advanced Computing and Intelligent Engineering (ICACIE), Springer, C. V. Raman College of Engineering (Autonomous), Bhubaneswar, Dec. 21-23, ISBN:978-981-10-6871-3, pp. 667-684. [SCOPUS].
37. Verma R., Pati B., Sarkar J. L., **Panigrahi C. R.**, Das S. (2018). M2C: An Energy Efficient Mechanism for Computation in Mobile Cloud Computing, International Conference on Advanced Computing and Intelligent Engineering (ICACIE), Springer, C. V. Raman College of Engineering (Autonomous), Bhubaneswar, Dec. 21-23, ISBN: 978-981-10-6871-3. [SCOPUS].
38. Banerjee A., Pati B., **Panigrahi C. R.** (2018). SC2: A Selection Based Consensus Clustering Approach, International Conference on Advanced Computing and Intelligent Engineering (ICACIE), Springer, C. V. Raman College of Engineering (Autonomous), Bhubaneswar, Dec. 21-23, ISBN: 978-981-10-6871-3. [SCOPUS].
39. Pati B., Sarkar J. L., **Panigrahi C. R.** (2018). eCloud: An Efficient Transmission Policy for Mobile Cloud Computing in Emergency Areas. In Proc. of 4th Intl. Conference on Advanced Computing, Networking, and Informatics (ICACNI'16), AISC, Springer, NIT Rourkela, Sept. 22-24, 978-981-10-3375-9. [SCOPUS].
40. **Panigrahi C. R.**, Tiwary M., Pati B., Sarkar J. L. (2016). EEOA: Improving Energy Efficiency of Mobile Cloudlets Using Efficient Offloading Approach, In Proc. of 9th IEEE International Conference on Advanced Networks and Telecommunications Systems (IEEE ANTS'15), ISI Kolkata, DOI: 10.1109/ANTS.2015.7413617, Electronic ISBN:978-1-5090-0293-1, Dec. 15-18, pp. 1-6. [SCOPUS].

41. *Pati B., Sarkar J. L., Panigrahi C. R., Tiwary M.* (2016). ARTQS: An Advanced Real-Time Query Scheduling Approach in Wireless Sensor Networks, In Proc. of 1st IEEE International Conference on Green Computing and Internet of Things (ICGCIoT'15), GCET, Greater Noida, Delhi, DOI: 10.1109/ICGCIoT.2015.7380461, INSPEC Accession Number: 15703631, Electronic ISBN:978-1-4673-7910-6, Oct. 8-10, pp. 222-227. [SCOPUS].
42. *Mishra M., Panigrahi C. R., Sarkar J. L., and Pati B.* (2016). GECSA: A Game Theory Based Energy-Efficient Cluster-Head Selection Approach in Wireless Sensor Networks, In Proc. of IEEE International Conference on Man and Machine Interfacing (MAMI'15), C. V. Raman College of Engineering (Autonomous), Bhubaneswar, Odisha, INSPEC Accession Number: 15937554, Electronic ISBN:978-1-5090-0225-2 Dec. 17-19, pp. 1-4. [SCOPUS].
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45. *Bisoy S. K., Pati B., Panigrahi C. R., Patnaik P.* (2016). Analysis of TCP Variant Protocol Using Active Queue Management Techniques in Wired-Cum-Wireless Networks, International Conference on Computational Intelligence in Data Mining (ICCIDM 2016), Springer, KIIT University, Bhubaneswar, ISBN: 978-981-10-3874-7, pp. 439- 448. [SCOPUS].
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47. *Sarkar J. L., Panigrahi C. R., Pati B., and Prasath R.* (2016). MiW: An MCC-WMSN Integration Approach for Performing Multimedia Applications, In Proc. of 4th International Conference on Mining Intelligence and Knowledge Exploration (MIKE'16), Springer, Mexico City, Mexico, Nov. 13-19, pp. 83-92, ISBN 978-3-319-58129-3. [SCOPUS].
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50. *Panigrahi C. R., Sarkar J. L., Pati B., Tiwary M.* (2015). S2S: A Novel Approach for Source to Sink Node Communication in Wireless Sensors Networks, In Proc. of 3rd International Conference on Mining Intelligence and Knowledge Exploration (MIKE'15), Springer, IIIT Hyderabad, DOI: 10.1007/978-3-319-26832-3 38, ISBN: 978-3-319-26831-6, Dec. 9-11, pp. 406-414. [SCOPUS].
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53. **Panigrahi C. R., Tiwary M., Pati B., Prasath R.** (2014). Malware Detection in Big Data Using Fast Pattern Matching: A Hadoop based Comparison on GPU. In Proc. of 2nd International Conference on Mining Intelligence and Knowledge Exploration (MIKE 14), LNAI 8891, Springer, Ireland, Print ISBN: 978-3-319-13816-9, Dec. 10-12, pp. 407-416. [SCOPUS].
54. **Panigrahi C. R. and Mall R.** (2010). Model-Based Regression Test Case Prioritization. In Proc. of 4th International Conference on Information Science, Technology and Management (ICISTM), LNCS, Springer, Mar 10-12, 54(6), Print ISBN: 978-3-642-12034-3, Online ISBN: 978-3-642-12035-0, pp.380-385. [SCOPUS].

Participation in Conferences & Seminars (as invited/plenary/chair)

1. *Resource Person*, AICTE Training and Learning (ATAL) Academy Online Elementary FDP on “Smart City and Internet of Things (IoT)”, 22-26th Nov. 2021.
2. *Keynote Speaker*, 6th International Conference on Advanced Computing & Intelligent Engineering (ICACIE 2021), Springer, 23-24 Dec., 2021.
3. *Resource Person*, INDO-UK Workshop on Internet of Things, Open Issues in Mobile Cloud Computing, IIT Kharagpur, 16th December, 2017.
4. *Resource Person*, National Workshop on Free and Open Source Tools for Software Engineering, JMeter: An Open Source Tool, NIT Rourkela, 14th May, 2015.
5. *Resource Person*, National Workshop on Recent Trends in Software Testing (RTST 2015), Regression Testing of OOPs, NIT Rourkela, 11-13th May, 2015.
6. *Resource Person*, National Workshop on Free and Open Source Software Tools for Software Engineering, JMeter: An Open Source Tool , C. V. Raman College of Engineering, Bhubaneswar, 4th July, 2015.
7. *Resource Person*, National Workshop on Free and Open Source Software Tools for Software Engineering, JMeter: An Open Source Tool, C. V. Raman College of Engineering, Bhubaneswar, 20th July, 2016.

Other information(s)

Conference Services:

1. *Technical Committee Member*, IEEE International Conference on Communications, Workshop on communication, IoT and AI technologies to counter COVID-19 (COVI-COM), 14-18 June 2021, Montreal, Canada.
2. *Technical Committee Member*, 6th Symposium on Modelling and Simulation in Computer Sciences and Engineering (MSCSE 2020), Rhodes, Greece, 17-23 Sept., 2020.
3. *Technical Committee Member*, 5th Symposium on Modelling and Simulation in Computer Sciences and Engineering (MSCSE 2019), Rhodes, Greece, 23-28 Sept., 2019.

4. *WiE Co-chair*, 12th IEEE International Conference on Advanced Networks and Telecommunications Systems (IEEE ANTS'18), IIT Mandi, 2018.
5. *Technical Committee Member*, 4th Symposium on Modelling and Simulation in Computer Sciences and Engineering (MSCSE 2018), Rhodes, Greece, 13-18 Sept., 2018.
6. *WiE Co-chair*, 11th IEEE International Conference on Advanced Networks and Telecommunications Systems (IEEE ANTS'17), C. V. Raman College of Engineering (Autonomous), Bhubaneswar, Dec. 17-19, 2017.
7. *Program Committee Member*, Student Research Symposium (SRS'16), KIIT University, Bhubaneswar.
8. *Technical Program Committee Member*, 5th IEEE Intl. Conference on Advances in Computing, Communications and Informatics (ICACCI'16), LNMIIT, Rajasthan, India, Sept. 21-24, 2016.
9. *Technical Committee Member*, 3rd Symposium on Modelling and Simulation in Computer Sciences and Engineering (MSCSE'16), Rhodes, Greece, Sept. 19-25, 2016.
10. *Program Committee Member*, International Conference on Computational Intelligence in Data mining (ICCIDM'16), Springer, KIIT University, Bhubaneswar, India, 2016.
11. *Program Committee Member*, 4th International Conference on Machine Intelligence and Knowledge Exploration (MIKE'16), Springer, Centre for Computing Research (CIC) National Polytechnic Institute (IPN), Mexico City, Mexico, Nov. 13-19, 2016.
12. *International Program Committee Member*, International Conference on Computational Intelligence in Data mining (ICCIDM'15), Springer, RIT, India, Dec. 5-6, 2015.
13. *Program Committee Member*, 3rd International Conference on Machine Intelligence and Knowledge Exploration (MIKE'15), Springer, IIIT Hyderabad, Dec. 09-11, 2015.
14. *International Program Committee Member*, IEEE International Conference on Man and Machine Interfacing (MAMI'15), C. V. Raman College of Engineering, Bhubaneswar, India, Dec. 17-19, 2015.
15. *Technical Program Committee Member*, 4th International Conference on Advanced Computing, Communication, and Informatics (ICACCI'15), 2015.
16. *Technical Committee Member*, 2nd Symposium on Modelling and Simulation in Computer Sciences and Engineering (MSCSE'15), Rhodes, Greece, Sept. 23-29, 2015.
17. *Program Committee Member*, 2nd International Conference on Machine Intelligence and Knowledge Exploration (MIKE'14), Springer, University College Cork, Ireland, Dec. 10-12, 2014.
18. *Program Committee Member*, International Conference on Computational Intelligence in Data mining (ICCIDM'14), Springer, Veer Surendra Sai University of Technology, India, Dec. 20-21, 2014.
19. *Program Committee Member*, IEEE International Conference on High Performance Computing Architecture (ICHPCA'14), C. V. Raman College of Engineering, India, Dec. 12-14, 2014.
20. *Publicity Chair*, IEEE International Conference on High Performance Computing Architecture (ICHPCA'14), C. V. Raman College of Engineering, India, Dec. 12-14, 2014.

21. *Program Committee Member*, 1st International Conference on Machine Intelligence and Knowledge Exploration (MIKE'13), Springer, VHNSN College (Autonomous), Virudhunagar, India, Dec. 18-20, 2013.
22. *Organizing Member*, IEEE International Conference on Intelligent Human Computer Interaction (IHCI'12), IIT Kharagpur, India, Dec. 27-29, 2012.
23. *Organizing Member*, National Conference on Recent Trends on Information Technology, Seemanta Engineering College, Odisha, India, 2007.

Journal Services:

1. *Guest Editor*, International Journal of Communication Networks and Distributed Systems (IJCND), Inderscience, ISSN online: 1754-3924, 2016.
2. *Guest Editor*, International Journal of Computational Science and Engineering (IJCSE), Inderscience, ISSN online: 1742-7193, 2016.
3. *Reviewer*, Chapter of Book on Resource Management and Efficiency in Cloud Computing Environments, IGI Global, 2016.
4. *Reviewer*, IEEE Transactions on Cloud Computing, Special Issue on Cloud Networking, 2015.
5. *Reviewer*, International Journal of Communications Networks and Distributed Systems (IJCND), Inderscience.
6. *Reviewer*, Ain Shams Engineering Journal, Elsevier
7. *Reviewer*, International Journal of Computational Science and Engineering (IJCSE), Inderscience.

Organization of Conferences/Workshops

1. *Organizing Chair*, 7th International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2022), Springer, Dec. 23-24, 2022.
2. *General Chair*, 6th International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2021), Springer, Dec. 23-24, 2021.
3. *Organizing Chair*, 5th International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2020), Springer, Université des Mascareignes (UdM), Mauritius, Jun. 25-27, 2020.
4. *Organizing Chair*, 4th International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2019), Springer, Rama Devi Women's University, Bhubaneswar, Dec. 21-23, 2019.
5. *Organizing Chair*, 3rd International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2018), Springer, S'O'A Deemed to be University, Bhubaneswar, Dec. 21-23, 2018.
6. *WiE Co-chair*, 12th IEEE International Conference on Advanced Networks and Telecommunications Systems (IEEE ANTS'18), IIT Mandi, 2018.
7. *Organizing Chair*, 2nd International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2017), Springer, Central University of Rajasthan, Dec. 22-24, 2017.
8. *WiE Co-chair*, 11th IEEE International Conference on Advanced Networks and Telecommunications Systems (IEEE ANTS'17), C. V. Raman College of Engineering (Autonomous), Bhubaneswar, Dec. 17-19, 2017.

9. *Organizing Chair*, International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2016), Springer, C. V. Raman College of Engineering (Autonomous), Bhubaneswar, Dec. 21-23, 2016.
10. *Convener*, National Workshop on Free and Open Source Software Tools for Software Engineering (FOSSTSE 2016) in collaboration with IIT Kharagpur, C. V. Raman College of Engineering (Autonomous), Bhubaneswar, 20th July, 2016
11. *Convener*, National Workshop on Free and Open Source Software Tools for Software Engineering (FOSSTSE 2015) in collaboration with IIT Kharagpur, C. V. Raman College of Engineering (Autonomous), Bhubaneswar, 4th July, 2015.
12. *Co-convener*, National level Short term course (ICT based) on Mobile Computing, in collaboration with NITTTR Chandigarh, C. V. Raman College of Engineering (Autonomous), Bhubaneswar, Feb. 15-19, 2016.
13. *Co-convener*, National level Short term course (ICT based) on Wireless Networks, in collaboration with NITTTR Chandigarh, C. V. Raman College of Engineering (Autonomous), Bhubaneswar, Feb. 15-19, 2016.
14. *Convener*, National Workshop on Free and Open Source Software Tools for Software Engineering (FOSSTSE 2016) in collaboration with IIT Kharagpur, C. V. Raman College of Engineering (Autonomous), Bhubaneswar, 20th July, 2016.
15. *Convener*, National Workshop on Free and Open Source Software Tools for Software Engineering (FOSSTSE 2015) in collaboration with IIT Kharagpur, C. V. Raman College of Engineering (Autonomous), Bhubaneswar, 4th July, 2015.
16. *Co-convener*, Faculty Development Programme on Research Topics in Cloud Computing & Big Data (CCBD 2015), C.V. Raman College of Engineering (Autonomous), Bhubaneswar, Odisha, (1 week), 2015.
17. *Convener*, National Workshop on Cloud Computing (NWCC 2015), C. V. Raman College of Engineering (Autonomous), Bhubaneswar, (1 week), 2015.
18. *Co-coordinator*, Faculty Development Program on Cloud Computing and Big Data, C. V. Raman College of Engineering (Autonomous), Bhubaneswar, (1 week), 2015.