

## *Dr. Bibudhendu Pati*



**Designation:** Professor

**Qualification:** BE (CSE) Hons, ME (CSE), MBA (IT), Ph.D. (CSE) IIT Kharagpur

**Date of Birth:** 09.07.1974

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**Google Scholar:** <https://scholar.google.com/citations?user=PodFnXQAAAAJ&hl=en>

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**WOS:** <https://www.webofscience.com/wos/author/record/677442>

**SCOPUS:** <https://www.scopus.com/authid/detail.uri?authorId=56439232500>

**ResearchGate:** <https://www.researchgate.net/profile/Bibudhendu-Pati>

**DBLP:** <https://dblp.org/pid/128/3111.html>

### Area of Interest

- Internet of Things
- Wireless Sensor Networks
- Cloud Computing
- Advanced Computer Networks

### Courses taught

Computer Networks, Data Structure, Operating Systems, Microprocessor, Logic Design, Programming in C, Wireless Sensor Networks, Internet of Things, Artificial Intelligence, Research Methodology, Research and Publication Ethics

### Career

Professor (2021 – till date): Rama Devi Women's University, Bhubaneswar

Associate Professor (2018 – 2021): Rama Devi Women's University, Bhubaneswar

Professor (2018): S 'O' A Deemed to be University, Bhubaneswar

Associate Professor (2014-2018): C. V. Raman College of Engineering, Bhubaneswar

Assistant Professor (1998-2013): Seemanta Engineering College, Mayurbhanj

Assistant Manager, Systems (1996-1998): Tata Iron & Steel Co. Ltd. Jamshedpur

## Teaching Experience

28 years

## Research Experience

21 years

## Administrative/Executive Experience

1. Head, Department of Computer Science, Rama Devi Women's University, Bhubaneswar, Sept. 2022 to 2024
2. Warden, Hostels, Rama Devi Women's University, Bhubaneswar, 2024 – till date
3. Coordinator, Department of Math, Rama Devi Women's University, 2024- till date
4. Chairman, Department Research Committee, Department of Computer Science, Rama Devi Women's University, Bhubaneswar, 2022 - 2024
5. OIC, ICT Cell, Rama Devi Women's University, Bhubaneswar, Dec. 2020 to till date
6. Mentor, NAAC, All affiliated colleges under Rama Devi Women's University, Bhubaneswar, 2020 to till date
7. OIC, P.G. Admission, Rama Devi Women's University, Bhubaneswar, Dec. 2020 to 2024
8. Coordinator, University Research & Development Committee, Rama Devi Women's University, Bhubaneswar, Dec. 2020 - 2024
9. Coordinator, Department of Math, Rama Devi Women's University, Bhubaneswar, 2020-2022
10. Head, Department of Computer Science, Rama Devi Women's University, Bhubaneswar, 2018-2020
11. Chairman, Board of Studies, Department of Computer Science, Rama Devi Women's University, Bhubaneswar, 2018-2020
12. Coordinator, IQAC, Rama Devi Women's University, Bhubaneswar, 2018-2020
13. Chairman, Subject Research Committee, Department of Computer Science, Rama Devi Women's University, Bhubaneswar, 2019-2020
14. OIC, Outside Exam, Rama Devi Women's University, Bhubaneswar, 2019-2022
15. OIC, UGC, Rama Devi Women's University, Bhubaneswar, 2018-2020
16. Coordinator, Unnat Bharat Abhiyan (UBA), Rama Devi Women's University, Bhubaneswar, 2018-2020
17. OIC, Student I-Card, Rama Devi Women's University, Bhubaneswar, 2018- 2024
18. Deputy Co-ordinator, World Bank – Institutional Development Project (IDP), Rama Devi Women's University, Bhubaneswar, 2019-2020
19. OIC, National Academic Depository (NAD), Rama Devi Women's University, Bhubaneswar, 2018- 2020
20. Head, Department of Computer Science & Engineering, C. V. Raman College of Engineering, Bhubaneswar, 2014-2018
21. Coordinator, IQAC, C. V. Raman College of Engineering, Bhubaneswar, 2016-2017
22. Head, Department of MCA, Seemanta Engineering College, Mayurbhanj, 1998-2008
23. Assistant Manager, Systems (1996-1998): Tata Iron & Steel Co. Ltd. Jamshedpur

## Awards & Honours

Senior Research Fellow Award, CSIR, India  
Senior Research Fellow Award, MHRD, India  
Young Scientist Award, Indian Society of Technical Education, India  
Best Teacher Award, Computer Society of India

## Research Guidance

- ✓ PhD thesis supervised : **17 (Seventeen)**
- ✓ M Tech/M.Phil thesis supervised : **M.Tech: 36 (Thirty Six)/ M.Phil: 02 (Two)**
- ✓ M.Sc. thesis supervised : **28 (Twenty Eight)**

## Research Grants

| S. No | Title of the project                                                                   | Funding Agency       | Amount    | Sanction year & duration |
|-------|----------------------------------------------------------------------------------------|----------------------|-----------|--------------------------|
| 1     | Design of Cost Efficient Allocation Model for Resource Management in Cloud Environment | DST, Govt. of Odisha | 7.11Lakhs | 2022 (Three Years)       |

## Publications

## Patents

| Patent no.     | Patent type       | Patent title                                                                   | Year of filing | Name of Inventor(s)                           | Status    |
|----------------|-------------------|--------------------------------------------------------------------------------|----------------|-----------------------------------------------|-----------|
| 2020102321     | Australian Patent | DATALET: AN APPROACH TO MANAGE BIG VOLUME OF DATA IN CYBER FORAGED ENVIRONMENT | 2020           | B.Pati et al.                                 | Published |
| 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 at al. | Published |

## Journal publications (Scopus/SCI/WoS only)

1. D Sahoo, PK Parida, SP Baral, **B Pati** (2025). An innovative aggregation operator for enhanced decision-making: A study on interval-valued Pythagorean fuzzy soft sets in material selection, *Applied Soft Computing*, Vol. 117, pp. 112888, [Impact Factor: 7.2, SCOPUS]
2. M Mishra, P Choudhury, **B Pati** (2024). IoT enabled plant leaf disease segmentation and multi-classification using mayfly bald eagle optimization-enabled machine learning, *Multimedia Tools and Applications* 83 (21), pp. 59747-59781, [Impact Factor: 3.0, SCOPUS]
3. SK Cowlessur, A Basava, **B Pati** (2024) PIONEER: An interest-aware POI Recommendation Engine, *Computación y Sistemas* 28 (1), 179-188, [JCR Impact Factor: 0.6, SCOPUS]
4. Panigrahi C. R., Sahoo S., **Pati B.** (2024), IoMT-Enabled Smart Healthcare Models to Monitor Critical Patients Using Deep Learning Algorithms: A Review, *Computación y Sistemas* 28 (4) ISSN: 2007-9737, [JCR Impact Factor: 0.6, SCOPUS]
5. SR Behera, **B Pati**, S Parida (2024), PBB-LMFO: a levy flight integrated MFO inspired ensemble model for cancer diagnosis, *International Journal of Information Technology*, [SCOPUS]
6. P Mansingh, BK Pattanayak, **B Pati** (2024), Deep Learning-Based Sentiment Analysis for the Prediction of Alzheimer's Drugs, *Computación y Sistemas* 27 (4) pp. 979-989, [JCR Impact Factor: 0.6, SCOPUS]
7. R Mishra, R Satpathy, **B Pati**, D Mohapatra, P Mishra, G Palai (2024), Diabetic Retinopathy Image Classification and Blind-Ness Detection Using Deep Learning Techniques, *Machine Intelligence Research*, 18 (1), pp. 1056-1077. [SCOPUS]
8. T Mukherjee, **B Pati**, CR Panigrahi, S Beborita (2024), Performance modeling of composite fading channels: an application to wearable wireless communication systems, *Discover Electronics*, 1 (1), pp 16, [SCOPUS]
9. S K. Mahapatra, B. K. Pattanayak, **B. Pati** (2024), An IoE-SVM Based Statistical Investigation to Measure Effect of Air Pollutant Substances on Student's Attention Level, *Computación y Sistemas* 28 (2) pp. 401-420, [JCR Impact Factor: 0.6, SCOPUS]
10. D Sahoo, PK Parida, **B Pati** (2024), Efficient fuzzy multi-criteria decision-making for optimal college location selection: A comparative study of min-max fuzzy TOPSIS approach, *Results in Control and Optimization*, 15, [SCOPUS]
11. R Mishra, R Satpathy, **B Pati** (2024), Interpretable AI in Medical Imaging: Enhancing Diagnostic Accuracy through Human-Computer Interaction, *Journal of Artificial Intelligence and Systems* 6 (1), pp. 96-111, [SCOPUS]
12. Biswal A., Panigrahi C.R., Behera A., Nanda S., Weng T-H., **Pati B.**, and Malu C. (2024). Activity recognition for elderly care using genetic search, *Computer Science and Information Systems*, 3-3 ISSN: 2406-1018 [SCOPUS, SCI, Impact Factor:1.4]
13. Parida B.R., Rath A. K., **Pati B.**, Panigrahi C. R., Mohapatra H., Weng T-H., and Buyya R. (2024). SSEPC cloud: Carbon footprint aware power efficient virtual machine placement in cloud milieu, *Computer Science and Information Systems*, 18-18 ISSN: 2406-1018, [SCOPUS, SCI, Impact Factor:1.4]
14. Banerjee A., Nayak S. C., Panigrahi C. R., and **Pati B.** (2024). Clustering ensemble by clustering selected weighted clusters, *International Journal of Computational Science and Engineering*, 27 (2), 159-166 [SCOPUS]

15. Bebortta S., Senapati D., **Pati B.**, and Panigrahi C. R., (2024). Dynamic performance modeling framework for QoS-aware 5G-based IoT-edge systems, *International Journal of Information Technology*, 16, 2149–2160. <https://doi.org/10.1007/s41870-023-01716-7> ISSN:2511-2104 [SCOPUS]
16. A Pati, M Parhi, BK Pattanayak, **B Pati** (2023), IFCnCov: An IoT-based smart diagnostic architecture for COVID-19, *Software: Practice and Experience* 53 (11), pp. 2133-2162, [SCOPUS, SCI]
17. Nanda S., Panigrahi C. R., **Pati B.** (2023). Flood Prediction with Optimized Attributes and Clustering, *Computación y Sistemas* 27 (4) ISSN: 2007-9737, [JCR Impact Factor: 0.6, SCOPUS]
18. R Mishra, R Satpathy, **B Pati** (2023), Human Computer Interaction Applications in Healthcare: An Integrative Review, *EAI Endorsed Transactions on Pervasive Health and Technology* 9 (1) [SCOPUS]
19. B. R. Parida, A.K. Rath, **Pati B.**, Panigrahi C. R. (2023). Energy Efficient Virtual Machine Placement in Dynamic Cloud Milieu Using a Hybrid Metaheuristic Technique, *Computación y Sistemas* 27 (4) ISSN: 2007-9737, [JCR Impact Factor: 0.6, SCOPUS]
20. BC Pattanaik, BK Sahoo, **B Pati**, SR Laha (2023), Dynamic fault tolerance management algorithm for VM migration in cloud data centers, *International Journal of Intelligent Systems and Applications in Engineering*, 11(3), pp. 85-96, [SCOPUS]
21. Nanda S., Panigrahi C. R., **Pati B.**, Mohapatra P. (2023). SMedia: social media data analysis for emergency detection and its type identification, *International Journal of Computational Science and Engineering*, Inderscience, 26(4), pp. 385-396, [Impact Factor: 1.4 SCOPUS]
22. Sarkar J.L, Cowlessur S. K., Ramasamy V., **Pati B.**, Selvi T.M., Panigrahi C. R., Majumdar B., Verma R.K., and Qureshi N.M.F. (2023). FogCom: SDN-enabled fog node selection for early detection of communicable diseases, *Journal of King Saud University-Computer and Information Sciences*, 35 (6), 101432, [Impact Factor: 5.2 SCOPUS].
23. R Trivedi, **B Pati**, SK Rath (2023), gTravel: Weather-Aware POI Recommendation Engine for a Group of Tourists, *Computación y Sistemas* 27 (3) ISSN: 2007-9737, [JCR Impact Factor: 0.6, SCOPUS]
24. Panda B., Panigrahi C. R., **Pati B.** (2023). Patient reviews analysis using machine learning, *International Journal of Computational Science and Engineering*, Inderscience, [Impact Factor: 1.4 SCOPUS]
25. SK Mahapatra, BK Pattanayak, **B Pati** (2023), Attendance monitoring of masked faces using ResNext-101, *J. Stat. Manag. Syst*, 26 (1), 117-131, [SCOPUS]
26. SK Mahapatra, BK Pattanayak, B Pati, SR Laha, S Pattnaik, B Mohanty (2023), An IoT Based Novel Hybrid-Gamified Educational Approach to Enhance Student's Learning Ability, *International Journal of Intelligent Systems and Applications in Engineering*, 11(3), pp. 374-393, [SCOPUS]
27. Bebortta S., Senapati D., Panigrahi C. R., **Pati B.** (2022). An adaptive performance modeling framework for QoS-aware offloading in MEC-based IIoT systems, *IEEE Internet of Things Journal*. [Impact Factor: 8.2, SCOPUS]
28. P Mansingh, BK Pattanayak, **B Pati** (2022), Big Medical Image Analysis: Alzheimer's Disease Classification Using Convolutional Auto Encoder, *Computación y Sistemas* 26 (4) 1491-1501, [JCR Impact Factor: 0.6, SCOPUS]
29. Bebortta S., Senapati D., Panigrahi C. R., **Pati B.** (2022). An Adaptive Modeling and Performance Evaluation Framework for Edge-enabled Green IoT Systems, *IEEE*

- Transactions on Green Communications and Networking. [Impact Factor: 5.3, SCOPUS]
30. 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]
  31. 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]
  32. 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]
  33. 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) JCR, Impact Factor: 0.6 [SCOPUS]
  34. Trivedi R., **Pati B.**, Panigrahi C.R. (2022). wPOI: Weather-Aware POI Recommendation Engine. Computación y Sistemas, 26(2). JCR, Impact Factor: 0.6 [SCOPUS]
  35. 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]
  36. Parida S., **Pati B.**, SC Nayak, Panigrahi C. R.,Weng T-H. (2022). PE-DCA: Penalty elimination based data center allocation technique using guided local search for IaaS cloud, Computer Science and Information Systems. 19(2), pp. 679-707, [SCI, Impact Factor: 1.2, SCOPUS].
  37. R Mahakud, BK Pattanayak, **B Pati** (2022) Challenges and Solution for Identification of Plant Disease Using IoT and Machine Learning, Specialusis Ugdymas, 1 (43), 4789-4810, [SCOPUS]
  38. P Mansingh, BK Pattanayak, **B Pati** (2022), Early detection of Alzheimer's diseases through IoT, International journal of health sciences 6 (S4), pp. 3669-3685 [SCOPUS]
  39. R Mahakud, BK Pattanayak, **B Pati** (2022), Internet of things and multi-class deep feature-fusion based classification of tomato leaf disease, Indones. J. Electr. Eng. Comput. Sci 25 (2), pp. 995-1002 [SCOPUS]
  40. BC Pattanaik, BK Sahoo, **B Pati** (2022), Operative analysis of relevant factors affecting fault tolerance during load balancing using effective algorithms, NeuroQuantology 20 (9), 1702 [SCOPUS]
  41. 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, <http://dx.doi.org/10.1016/j.eij.2016.06.005>, ISSN: 1110-8665, Vol. 22(3). pp. 357-362 [SCOPUS, SCI, Impact Factor: 5.0]
  42. Nayak S., Panigrahi C. R., **Pati B.**, Nanda S., Hsieh Meng-Yen. Comparative Analysis of HAR Datasets using Classification Algorithms, Computer Science and Information Systems 2021, Pages: 43-43 <https://doi.org/10.2298/CSIS201221043N>, 19(1), ISSN: 1820-0214 (Print) 2406-1018 (Online) [SCOPUS, SCI, Impact Factor:1.4]
  43. 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 JCR, Impact Factor: 0.6 [SCOPUS]

44. 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]
45. 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 JCR, Impact Factor: 0.6 [SCOPUS]
46. Nanda S., Panigrahi C.R., **Pati B.** (2020), Emergency management systems using mobile cloud computing: A survey, *International Journal of Communication Systems*, e4619, 2020, [SCOPUS, SCI, Impact Factor: 1.717]
47. 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: 3.2]
48. 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]
49. 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]
50. 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]
51. 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 ISSN: 2007-9737, JCR, Impact Factor: 0.6 [SCOPUS]
52. 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: 3.4]
53. 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: 1.717]
54. 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]
55. 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]
56. 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: 1.7]
57. **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, Impact Factor: 0.7]
58. 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, Impact Factor: 0.7]
  59. 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: 7.5]
  60. Panigrahi C. R., Sarkar J. L., and **Pati B.** (2016). CPDA: A Conflict-free Periodic Data Aggregation Technique in Wireless Sensor Networks, Egyptian Informatics Journal, Elsevier, <http://dx.doi.org/10.1016/j.eij.2016.06.005>, ISSN: 1110-8665, [SCOPUS, SCI, Impact Factor: 5.0]
  61. **Pati B.**, Sarkar J. L., and Panigrahi C. R. (2016). ECS: An Energy Efficient Approach to Select Cluster-Head in Wireless Sensor Networks, Arabian Journal for Science and Engineering, Springer, DOI: 10.1007/s13369-016-2304-2, [SCOPUS, SCI, Impact Factor: 2.6]
  62. 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, [SCOPUS, Impact Factor: 0.7]
  63. 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]

## Book/book chapter Publications:

1. **Pati B.**, Panigrahi C.R., Mohapatra P., Li K-C (2024). Proceedings of the 7th International Conference on Advance Computing and Intelligent Engineering, ISBN 978-981-99-5015-7(**Edited Book**) [SCOPUS]
2. **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]
3. Sabut S.K., Ray A.K., **Pati B.**, Acharya U R. (2021) Proceedings of International Conference on Communication, Circuits, and Systems, Springer, ISBN-978-9813348653, 02 April 2021 [SCOPUS] (**Edited Book**)
4. 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 [SCOPUS] (**Edited Book**)
5. 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 [SCOPUS] (**Edited Book**)
6. 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[SCOPUS] (**Edited Book**)

7. 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 [SCOPUS] (**Edited Book**)
8. **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 [SCOPUS] (**Edited Book**)
9. **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 [SCOPUS] (**Edited Book**)
10. 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 [SCOPUS] (**Edited Book**)
11. **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 [SCOPUS]. (**Edited Book**)
12. Saeed K., Chaki N., **Pati B.**, Bakshi S., Mohapatra D. P., Progress in Advanced Computing and Intelligent Engineering, Springer, Vol. – I, 8 February 2018, ISBN: 978-9811068713 [SCOPUS]. (**Edited Book**)
13. Saeed K., Chaki N., **Pati B.**, Bakshi S., Mohapatra D. P., Progress in Advanced Computing and Intelligent Engineering, Springer, Vol. – II, 21 December 2017, ISBN: 978-9811068744 [SCOPUS]. (**Edited Book**)
14. Das S. K., Bebortta S., **Pati B.**, Panigrahi C.R., Senapati D. (2024), Profiling and Classification of IoT Devices for Smart Home Environments, Machine Learning for Cyber Physical System: Advances and Challenges, Springer Nature Switzerland, pp. 85-121.[SCOPUS]
15. RR Patro, R Patro, PK Giri, **B Pati** (2024), A PSO approach for two warehouse inventory problem with imperfect quality items and variable discount, Machine Intelligence, Tools, and Applications, pp. 116-127 [SCOPUS]
16. Bishi D.K., Padhi P., Panigrahi C.R., **Pati B.**, Rath C.C. (2023), Deep learning techniques for hepatocellular carcinoma diagnosis, Computational Intelligence in Cancer Diagnosis, Academic Press, pp. 317-336.[SCOPUS]
17. S Samarpita, R Mishra, R Satpathy, **B Pati** (2023), Security Issues and Privacy Challenges of Cyber-Physical System in Smart Healthcare Applications, Big Data Analytics in Intelligent IoT and Cyber-Physical Systems, pp. 73-87.[SCOPUS]
18. Rath M., Tripathy S. S., Tripathy N., Panigrahi C.R., **Pati B** (2023), Artificial Intelligence Incorporated in Business Analytics and Blockchain to Enhance Security, Computational Intelligence for Cybersecurity Management and Applications, CRC Press, pp. 123-145.[SCOPUS]
19. Rath M., Tripathy S. S., Tripathy N., Panigrahi C.R., **Pati B** (2023), Review of fog and edge computing–based smart health care system using deep learning approaches, Deep Learning in Personalized Healthcare and Decision Support, Academic Press, pp. 95-105.[SCOPUS]
20. Behera A.,Panigrahi C.R., Mishra A., **Pati B.**, and Mitra S. (2022), Movie Recommendations, Artificial Intelligence and Data Science In Recommendation System: Current Trends, Technologies and Applications, Bentham Science.[SCOPUS]
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## Participation in Conferences & Seminars

Program Committee: 14th International Conference on Cloud Computing: Services and Architecture (CLOUD 2025) May 24-25, 2025, Vancouver, Canada

Program Committee: 14th International Conference on Software Engineering and Applications (SEAS 2025), 15-16 March 2025, Vienna, Austria

Program Committee: 5th International Conference on Soft Computing, Artificial Intelligence and Machine Learning (SAIM 2024), April 27-28, 2024, Copenhagen, Denmark

Program Committee: 2nd International Conference on Innovations in Software Architecture and Computational Systems, 21-22 July 2022, Guru Nanak Institute of Technology, Kolkata

TPC Member: IEEE GLOBECOME, Spain, 7-11 December 2021.

TPC Member: IEEE ICC - International Conference on Communication, 14-23 June 2021

Program Committee: 3<sup>rd</sup> International Conference on Machine Learning & Applications (CMLA 2021) September 25-26, 2021, Toronto, Canada

Session Chair: 3rd International Conference on Communications, Circuits, and Systems, KIIT University, Bhubaneswar, 2021

TPC Member: ICDCN 4-7 January 2020, Kolkata.

National Workshop on Free and Open Source Tools for Software Engineering, JMeter: An Open Source Tool, NIT Rourkela, 14th May, 2015.

National Workshop on Recent Trends in Software Testing (RTST 2015), Regression Testing of OOPs, NIT Rourkela, 11-13th May, 2015.

Session Chair: IEEE International Conference on High Performance Computing Architecture (ICHPCA 2014), C. V. Raman College of Engineering, Bhubaneswar.

Session Chair: IEEE International Conference Intelligent Human Computer Interaction, IIT Kharagpur, India, December 27-29, 2012.

Session Chair: 3rd Intl. Conference on Advanced Computing, Networking, and Informatics (ICACNI'15), KIIT University, Bhubaneswar, June 23- 25, 2015.

Session Chair: IEEE ANTS 2015, 15-18th December, ISI, Kolkata.

Session Chair: IEEE International Conference on Man and Machine Interfacing (MAMI'15), C. V. Raman College of Engineering, Bhubaneswar, India, Dec. 17-19, 2015.

Session Chair: 5th IEEE Intl. Conference on Advances in Computing, Communications and Informatics (ICACCI'16), LNMIIT, Rajasthan, India, Sept. 21-24, 2016.

## Other information(s)

### Conference Publications (Presented/Published in proceedings):

1. Das S. K., Bebortta S., **Pati B.**, Panigrahi C.R., Senapati D. (2024), Profiling and Classification of IoT Devices for Smart Home Environments, Machine Learning for Cyber Physical System: Advances and Challenges, Springer Nature Switzerland, pp. 85-121.[SCOPUS]
2. R Mishra, R Satpathy, **B Pati** (2024), A Comparative Analysis on Deep Learning Approaches for Patient Data Privacy Using Electronic Health Record, IEEE 3rd Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology (ODICON), pp 1-6 [SCOPUS]
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## Organization of Conferences/Workshops

1. General Chair, 7th International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2022), Springer, Dec. 23-24, 2022.
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3. General Chair, 5th International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2020), Springer, Université des Mascareignes (UdM), Mauritius, Jun. 25-27, 2020.
4. General Chair, 4th International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2019), Springer, Rama Devi Women's University, Bhubaneswar, Dec. 21-23, 2019.
5. General 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. TPC Chair, 2nd International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2017), Springer, Central University of Rajasthan, Dec. 22-24, 2017.
7. General 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.