

Dr. Premkumar Chithaluru

Associate Professor

Education Qualifications: Doctor of Philosophy (Computer Science and Engin

Specialization: Wireless Sensor Networks

Regular (Tenure)

Salary – 7th CPC: 131400 - 217000

Gross salary per month – 217833



ADDRESS:

- D – Block -Room No 305

JNTUH ID:

7675-190505-115629

EMAIL:

chprem Kumar_it@mgit.ac.in

DATE OF JOINING:

21-05-2024

EXPERIENCE - 15 Years

- Teaching - 15
- Research -3
- Industry -0
- Others – 0

SUMMARY:

- Publications - 30
- Conferences - 14
- Patents – 0
- Books – 9
- Honors/Awards - 0

EVENTS:

- Organized - 0
- Attended - 0

LET'S MEET ON SOCIAL:

- <https://www.linkedin.com/in/dr-premkumar-chithaluru-49155818/>
- https://scholar.google.com/citations?hl=en&user=fHqGn7sAAAAJ&view_op=list_works&sortby=pubdate
- <https://www.scopus.com/authid/detail.uri?authorId=57201708482>

Membership of Professional Bodies:

1. IEEE
2. ACM
3. IAENG

Responsibilities Held at the Institution Level:

1. To promote the R&D for the institution's growth

Responsibilities Held at the Department Level:

1. Final Year Projects Coordinator
2. NBA Criteria 2 in charge

Research Guidance:

1. Two students were awarded Ph. D. (2021-22)

Honors/Awards Received:

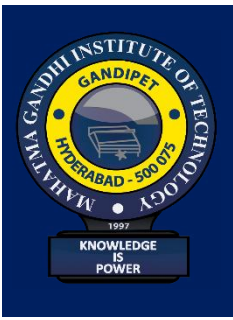
Not applicable

Courses Handled at Under Graduate /Post Graduate Level:

1. **UG:** Design Thinking, Cloud Computing, Operating System, COA
2. **PG:** Advanced Compiler Design, Cloud Computing, Next Generation Networks

Publications:

1. **Chithaluru, P., S. M. Afroj,** 2012. A Method for Automatic Accurate Image Registration Through Histogram-Based Image Segmentation and Translation (delineation). IJCST Vol. 3, Issue 3, July – Sept. **(SCOPUS, Q3)**
2. P Srikanth, **Chithaluru, P.,** Shivam Rawat, 2014. Super Virtualization Structural Model for Centralized and Distributed Server Management. IJCST Vol. 5, Issue 4, Spl-1 Oct-Dec. **(SCOPUS, Q3)**
3. Satyam Pandey, Umesh Singh Tomar, **Chithaluru, P.,** 2014. Security Issues in SCADA Functionality over Physical & Logical Framework. IJCST Vol. 5, Issue 4, Spl-1 Oct-Dec. **(SCOPUS, Q3)**
4. **Chithaluru, P.,** P Srikanth, M Vijaya Kamal, 2015. Raid-5 Strategy in Virtual Hybrid Cloud (R5 VHC). International Research Journal of Management Sociology & Humanities (IRJMSH), Vol. 6 Issue- 6. **(SCOPUS, Q3)**
5. Ravinder Kumar, **Chithaluru, P.,** 2016. Universal Language Translator Using Raspberry Pi. International Journal of Engineering Research in Computer Science and Engineering (IJERCSE) Vol 3, Issue 1, January. **(SCOPUS, Q3)**



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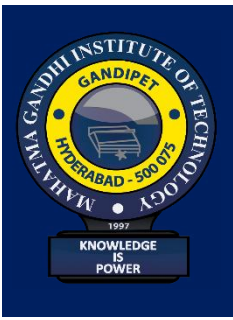
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- <https://www.scopus.com/authid/detail.uri?authorId=57201708482>

6. **Chithaluru, P.**, Amit Verma, Ravi Prakash, 2016. Secure Reach Routing Algorithm Using Keyless Encryption. I J C T A, 9(11) 2016, pp. 5369-5376. **(SCOPUS, Q3)**
7. **Chithaluru, P.**, Rohit Joshi, Preeti Pathak & Naveen Garg, 2017. Temperature and Power Efficient Scheduling for Cloud Data Centers: Green Approach. Communication and Computing Systems – Prasad et al. (Eds). Taylor & Francis Group. **(SCOPUS, Q3)**
8. **Chithaluru, P.**, Ravi Prakash, Anuj Awasthi & Sagar Uppal, 2017. Booster's implementation over SCADA architecture. Communication and Computing Systems – Prasad et al. (Eds). Taylor & Francis Group. **(SCOPUS, Q3)**
9. **Chithaluru, P.**, Utkarsh Yadav, Saumya Srivastava, 2018. Big data – Social Data Analysis-Improvisation of social data analysis to boost E-Commerce. IJASCSE Vol. 6 issue 9. **(SCOPUS, Q3)**
10. Ravi Prakash, **Chithaluru, P.**, Deepak Sharma and P. Srikanth, 2019. Implementation of Trapdoor Functionality to Two-Layer Encryption and Decryption by Using RSA-AES Cryptography Algorithms. Nanoelectronics, Circuits and Communication, Springer Nature Singapore Pte Ltd. DoI: 10.1007/978-981-13-0776-8_8. **(SCOPUS, Q3)**
11. **Chithaluru, P.**, Rajeev Tiwari, and Kamal Kumar. "AREOR–Adaptive ranking-based energy-efficient opportunistic routing scheme in Wireless Sensor Network." Computer Networks 162 (2019): 106863. **(SCI, Q1, IF: 5.493)**
12. **Chithaluru, P.**, Rajeev Tiwari, and Kamal Kumar, "Performance Analysis of Energy Efficient Opportunistic Routing Protocols in Wireless Sensor Network" International Journal of Sensors, Wireless Communications, and Control, 1-18 (18), 2020. **(SCOPUS, Q3)**
13. **Chithaluru, P.**, Fadi Al-Turjman, Manoj Kumar, and Thompson Stephan. "I-AREOR: An Energy-balanced Clustering Protocol for implementing Green IoT in smart cities." Sustainable Cities and Society (2020): 102254. **(SCI, Q1, IF: 10.696)**
14. **Chithaluru, P.**, Rajeev Tiwari, and Kamal Kumar. "ARIOR: Adaptive Ranking Based Improved Opportunistic Routing in Wireless Sensor Networks." Wireless Personal Communications (2020): 1-24. **(SCI, Q1, IF: 2.017)**
15. Ramakuri, Sravanth K., **Chithaluru, P.**, and Sunil Kumar. "Eyeblink Robot Control Using Brain-Computer Interface for Healthcare Applications" International Journal of Mobile Devices, Wearable Technology, and Flexible Electronics (IJMDWTFE) 10, no. 2 (2021): 38-50. **(SCOPUS, Q3)**



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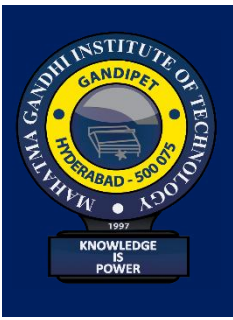
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16. **Chithaluru, P.**, Mohammad S. Khan, Manoj Kumar, and Thompson Stephan. "ETH-LEACH: An energy enhanced threshold routing protocol for WSNs." International Journal of Communication Systems: e4881, 2021. **(SCI, Q1, IF: 1.882)**
17. **Chithaluru, P.**, Al-Turjman, F., Stephan, T., Kumar, M. and Mostarda, L., 2021. Energy-efficient blockchain implementation for Cognitive Wireless Communication Networks (CWCNs). Energy Reports, 7, pp.8277-8286. **(SCI, Q1, IF: 4.937)**
18. **Chithaluru, P.**, F. Al-Turjman, M. Kumar and T. Stephan, "MTCEE-LLN: Multilayer Threshold Cluster-Based Energy-Efficient Low-Power and Lossy Networks for Industrial Internet of Things," in IEEE Internet of Things Journal, vol. 9, no. 7, pp. 4940-4948, April 1, 2022, DOI: 10.1109/JIOT.2021.3107538. **(SCI, Q1, IF: 10.236)**
19. **Chithaluru, P.**, S. Kumar, A. Singh, A. Benslimane and S. K. Jangir, "An Energy-Efficient Routing Scheduling Based on Fuzzy Ranking Scheme for Internet of Things," in IEEE Internet of Things Journal, vol. 9, no. 10, pp. 7251-7260, 15 May 15, 2022, DOI: 10.1109/JIOT.2021.3098430. **(SCI, Q1, IF: 10.236)**
20. **Chithaluru, P.**, Stephan, T., Kumar, M. and Nayyar, A., 2022. An enhanced energy-efficient fuzzy-based cognitive radio scheme for IoT. Neural Computing and Applications, 34(21), pp.19193-19215. **(SCI, Q1, IF: 5.102)**
21. Joshi, D., **Chithaluru, P.**, Singh, A., Yadav, A., Elkamchouchi, D.H., Pérez-Oleaga, C.M. and Anand, D., 2022. A Novel Large-Scale Stochastic Pushback Design Merged with a Minimum Cut Algorithm for Open Pit Mine Production Scheduling. Systems, 10(5), p.159. **(SCI, Q2, IF: 2.895)**
22. Jain, A., Singh, J., Kumar, S., Florin-Emilian, T., Traian Candin, M. and **Chithaluru, P.**, 2022. Improved Recurrent Neural Network Schema for Validating Digital Signatures in VANET. Mathematics, 10(20), p.3895. **(SCI, Q1, IF: 2.592)**
23. Joshi, D., **Chithaluru, P.**, Singh, A., Yadav, A., Elkamchouchi, D.H., Breñosa, J. and Anand, D., 2022. An Optimized Open Pit Mine Application for Limestone Quarry Production Scheduling to Maximize Net Present Value. Mathematics, 10(21), p.4140. **(SCI, Q1, IF: 2.592)**
24. Yadav, A., **Chithaluru, P.**, Singh, A., Joshi, D., Elkamchouchi, D.H., Pérez-Oleaga, C.M. and Anand, D., 2022. An Enhanced Feed-Forward Back Propagation Levenberg–Marquardt Algorithm for Suspended Sediment Yield Modeling. Water, 14(22), p.3714. **(SCI, Q2, IF: 3.530)**
25. Yadav, A., **Chithaluru, P.**, Singh, A., Albahar, M.A., Jurcut, A., Álvarez, R.M., Mojada, R.K. and Joshi, D., 2022. Suspended Sediment Yield



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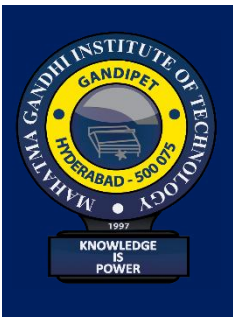
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- <https://www.scopus.com/authid/detail.uri?authorId=57201708482>

Forecasting with Single and Multi-Objective Optimization Using Hybrid Artificial Intelligence Models. *Mathematics*, 10(22), p.4263. **(SCI, Q1, IF: 2.592)**

26. Joshi, D., Ali Albahar, M., **Chithaluru, P.**, Singh, A., Yadav, A. and Miro, Y., 2022. A Novel Approach to Integrating Uncertainty into a Push Re-Label Network Flow Algorithm for Pit Optimization. *Mathematics*, 10(24), p.4803. **(SCI, Q1, IF: 2.592)**
27. **Chithaluru, P.**, F. AL-Turjman, M. Kumar and T. Stephan, "Computational Intelligence Inspired Adaptive Opportunistic Clustering Approach for Industrial IoT Networks," in *IEEE Internet of Things Journal*, DOI: 10.1109/JIOT.2022.3231605. **(SCI, Q1, IF: 10.236)**
28. **Chithaluru, P.**, F. AL-Turjman, M. Kumar and T. Stephan, Energy-balanced neuro-fuzzy dynamic clustering scheme for green & sustainable IoT based smart cities, *Sustainable Cities and Society*, Volume 90, 2023, 104366, ISSN 2210-6707, <https://doi.org/10.1016/j.scs.2022.104366>. **(SCI, Q1, IF: 10.696)**
29. Yadav A, Ali Albahar M, **Chithaluru P.**, Singh A, Alammari A, Kumar GV, Miro Y. Hybridizing Artificial Intelligence Algorithms for Forecasting of Sediment Load with Multi-Objective Optimization, *Water*, 15(3), 2023. **(SCI, Q2, IF: 3.530)**
30. Pradhan, A. K., Das, K., Mishra, D., and **Chithaluru, P.**, Optimizing CNN-LSTM hybrid classifier using HCA for biomedical image classification, *Expert Systems*, e13235, 2023. <https://doi.org/10.1111/exsy.13235>. **(SCI, Q2, IF: 2.812)**
31. **Chithaluru, P.**, Singh, A., Mahmoud, M.S., Kumar, S., Mazón, J.L.V., Alkhayyat, A. and Anand, D., 2023. An enhanced opportunistic rank-based parent node selection for sustainable & smart IoT networks. *Sustainable Energy Technologies and Assessments*, 56, p.103079. **(SCI, Q1, IF: 7.632)**
32. **Chithaluru, P.**, Singh, A., Dhattewal, J.S., Sodhro, A.H., Albahar, M.A., Jurcut, A. and Alkhayyat, A., 2023. An Optimized Privacy Information Exchange Schema for Explainable AI Empowered WiMAX-based IoT Networks. *Future Generation Computer Systems*. **(SCI, Q1, IF: 7.307)**
33. **Chithaluru, P.**, Al-Turjman, F., Stephan, T., Kumar, M. and Kumar, S., 2023. An optimized bio-inspired localization routing technique for sustainable IIoT networks & green cities. *Sustainable Cities and Society*, p.104722. **(SCI, Q1, IF: 11.7)**
34. Tiwari, R., **Chithaluru, P.**, Kumar, K., Kumar, M. and Stephan, T., 2023. A cooperation federated forwarder selection technique for maximizing network lifetime in wireless sensor network. *Sādhanā*, 48(3), p.135. **(SCI, Q2, IF: 1.6)**



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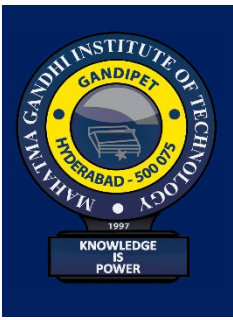
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- <https://www.scopus.com/authid/detail.uri?authorId=57201708482>

35. Kumar, S., Singh, A., Benslimane, A., **Chithaluru, P.**, Albahar, M.A., Rathor, R.S. and Álvarez, R.M., 2023. An optimized intelligent computational security model for interconnected blockchain-IoT system & cities. *Ad Hoc Networks*, p.103299. **(SCI, Q1, IF: 4.8)**
36. Moparthi, N.R., Krishna, B., **Chithaluru, P.**, Morarjee, K. and Kumar, M., 2023. An improved energy-efficient cloud-optimized load-balancing for IoT frameworks. *Heliyon*. **(SCI, Q1, IF: 4)**
37. **Chithaluru, P.**, Uyyala, R., Singh, A., Alfarraj, O., Lopez, L.A., Khatak, S. and Alkhayyat, A.H., 2024. A Lightweight Energy-Efficient Routing Scheme for Real-Time WSN-VANET-Based Applications. *IEEE Transactions on Consumer Electronics*. **(SCI, Q1, IF: 4.6)**
38. Kiran Kumar, G., K Prashanth, S., Padmalatha, E., Venkata Krishna Reddy, M., Rama Devi, N., Abualigah, L., **Chithaluru, P.** and Kumar, M., 2024. An optimized meta-heuristic clustering-based routing scheme for secured wireless sensor networks. *International Journal of Communication Systems*, p.e5791. **(SCI, Q2, IF: 2.1)**
39. Tumula, S., Rama Devi, N., Ramadevi, Y., Padmalatha, E., Uyyala, R., Abualigah, L., **Chithaluru, P.** and Kumar, M., An enhanced bio-inspired energy-efficient localization routing for mobile wireless sensor network. *International Journal of Communication Systems*, p.e5803. **(SCI, Q2, IF: 2.1)**
40. Narsimhulu, **P.**, **Chithaluru, P.**, Al-Turjman, F., Guda, V., Inturi, S., Stephan, T. and Kumar, M., 2024. An intelligent FL-based vehicle route optimization protocol for green and sustainable IoT connected IoV. *Internet of Things*, 27, p.101240. **(SCI, Q1, IF: 5.9)**
41. Uyyala, R., Bojjagani, S., Sharma, N.K., **Chithaluru, P.** and Akuri, S.R.C.M., 2024. Selective Weighting and Prediction Error Expansion for High-Fidelity Images. *SN Computer Science*, 5(7), p.850. **(SCOPUS, Q2)**
42. Gupta, S., **Chithaluru, P.**, Stephan, T., Nafisa, S. and Kumar, S., 2024. HSPBCI: a robust framework for secure healthcare data management in blockchain-based IoT systems. *Multimedia Tools and Applications*, pp.1-25. **(SCI, Q1, IF: 3)**

Conferences:

1. My Research paper entitled “Super Virtualization Structural Model for Centralized and Distributed Server Management” submitted to the International Conference on Interdisciplinary Research and Technological Developments (IRTD 2014). **(SCOPUS)**
2. My Research paper entitled “Security Issues in SCADA Functionality over Physical & Logical Framework” was submitted to The International



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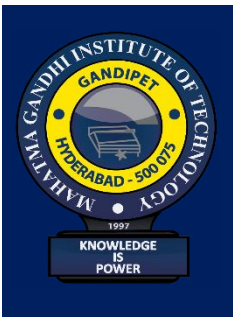
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4. My Research paper entitled “Temperature and Power Efficient Scheduling for Cloud Data Centers: Green Approach (Paper ID- 94)” was submitted to ICCCS-16.
5. My Research paper entitled “Boosters Implementation over SCADA Architecture” (Paper ID- 129)” submitted to ICCCS-16. **(SCOPUS)**
6. My Research paper entitled “UART-based Visible Light Communication over Power Line Communication” was submitted to the 10th IEEE Advanced Networks and Telecommunications Systems (ANTS) J. N. Tata Auditorium, IISc Bangalore, India November 6-9, 2016. **(SCOPUS)**
7. My Research paper entitled "Big data – Social Data Analysis Improvisation of Social Data Analysis to Boost E-Commerce" was submitted to the 3rd International Conference on Cyber Security (ICCS - 2017), 12-13 Aug 2017. **(SCOPUS)**
8. My Research paper entitled “Implementation of Trapdoor Functionality to Two-Layer Encryption & Decryption by using RSA-AES Cryptography Algorithms” was submitted to the 3rd International Conference on Nanoelectronics, Circuits & Communication Systems (NCCS-2017), 11-12th Nov-2017. **(SCOPUS)**
9. My Research paper entitled, “Performance analysis of jitter and packet loss ratio for routing protocols in wireless sensor networks”, in Proceedings of IEEE International Conference on Advances in Computing, Communication & Automation, Bareilly, 2019. **(SCOPUS)**
10. My Research paper is entitled, “Active Security by Implementing Intrusion Detection and Facial Recognition.” In: Nath V., Mandal J. (eds) Nano-electronics, Circuits, and Communication Systems. Lecture Notes in Electrical Engineering, vol 692, 2021 Springer, Singapore. **(SCOPUS)**
11. My Research paper is entitled "An Adaptive Fuzzy-Based Clustering Model for Healthcare Wireless Sensor Networks." In Ambient Intelligence in Health Care, pp. 1-10. Springer, Singapore, 2023. **(SCOPUS)**
12. My Research paper is entitled "Statistical validations on energy efficient routing protocols to improve the performance of Wireless Sensor Network. In 2022 International Conference on Machine Learning, Computer Systems and Security (MLCSS) (pp. 325-330). IEEE. **(SCOPUS)**



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13. My Research paper is entitled "Enhanced Machine Learning Algorithms for Validating the Biometrics in VANET. In 2022 International Conference on Machine Learning, Computer Systems and Security (MLCSS) (pp. 11-16). IEEE. **(SCOPUS)**
14. My Research paper is entitled "An Enhanced Haar Cascade Face Detection Schema for Gender Recognition. In 2023 International Conference on Smart Computing and Application (ICSCA) (pp. 1-5). IEEE. **(SCOPUS)**
15. My Research paper is entitled "Blockchain-based Secure EV Charging System. In 2023 IEEE 3rd International Conference on Sustainable Energy and Future Electric Transportation (SEFET) (pp. 1-4). IEEE. **(SCOPUS)**

Patents:

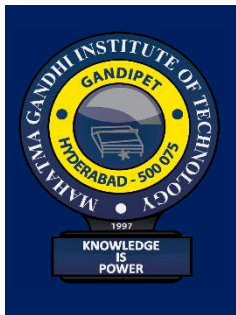
Not applicable

Research & Consultancy:

Not applicable

No. of Books/Chapter Published with details:

1. **Chithaluru, P.**, "A Method for Automatic Accurate Image Registration and Translation", and bearing ISBN 978-3-659-44321-3 in LAP (Lambert Academic Publications), Germany. **(SCOPUS)**
2. **Chithaluru, P.**, Ravi Prakash, and Subodh Srivastava. "WSN Structure Based on SDN." In Innovations in Software-Defined Networking and Network Functions Virtualization, pp. 240-253. IGI Global, 2018. **(SCOPUS)**
3. **Chithaluru, P.**, and Ravi Prakash. "Simulation on SDN and NFV models through mininet." In Innovations in Software-Defined Networking and Network Functions Virtualization, pp. 149-174. IGI Global, 2018. **(SCOPUS)**
4. **Chithaluru, P.**, and Ravi Prakash. "Organization Security Policies and Their After Effects." In Information Security and Optimization, pp. 43-60. Chapman and Hall/CRC, 2020. **(SCOPUS)**
5. **Chithaluru, P.**, Rohit Tanwar, and Sunil Kumar. "Cyber-Attacks and Their Impact on Real Life: What Are Real-Life Cyber-Attacks, How Do They Affect Real Life and What Should We Do About Them?" In Information Security and Optimization, pp. 61-77. Chapman and Hall/CRC, 2020. **(SCOPUS)**
6. **Chithaluru, P.**, Singh, K., Cryptocurrency and Blockchain." In Information Security and Optimization, pp. 143-158. Chapman and Hall/CRC, 2020. **(SCOPUS)**
7. Rohit Tanwar, S. Balamurugan, R. K. Saini, Vishal Bharti, and **Chithaluru, P.** "Advanced Healthcare Systems: Empowering Physicians

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with IoT-Enabled Technologies (Artificial Intelligence and Soft Computing for Industrial Transformation)” In Scrivener Publishing-Wiley”, ISBN: 9781119768869, 2021. **(SCOPUS)**

8. Jena, L., Ammoun, L., **Chithaluru, P.** (2022). Supervised Intelligent Clinical Approach for Breast Cancer Tumor Categorization. In: Mishra, S., Tripathy, H.K., Mallick, P., Shaalan, K. (eds) Augmented Intelligence in Healthcare: A Pragmatic and Integrated Analysis. Studies in Computational Intelligence, vol 1024. Springer, Singapore. https://doi.org/10.1007/978-981-19-1076-0_2. **(SCOPUS)**
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Events Organized:

Conferences:

Not applicable

FDPs/STTPs:

Not applicable

Refresher Courses/ Workshops/ Webinars/ Seminars/ Guest Lecture:

Not applicable

Events Attended

FDPs/STTPs:

Not applicable

Refresher Courses/ Workshops/ Webinars/ Seminars/Guest Lecture:

Not applicable

Online Certifications:

Not applicable

Any Other Contribution:

Not applicable