

PRATEEK RAJ GAUTAM



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E 540/9 Avas Vikas (1) Kalyanpur Kanpur UP – 208 017, India.

EDUCATION

- June 2016 – Present **Ph.D.** (EC / Sensor Localization in WSNs) at MNNIT Allahabad, Prayagraj
(Perusing, published **one** paper in **IEEE Transaction on Industrial Informatics**, **impact factor = 7.377**, second communicated in the same and third under minor revision in **IET Communications** and presented 6 conference/book chapter).
- July 2009 – December 2011 **M. Tech.** (Electronics and Communication Engineering)
from Harcourt Butler Technological Institute Kanpur, UP with 67.55%
- July 2004 – June 2008 **B. Tech.** (Electronics and Communication Engineering)
from University Institute of Engineering and Technology, CSJMU Kanpur, UP with 62%

EXPERIENCE

- June 2016 – Present **Ph.D. Research Scholar (Full Time)**
Electronics and Communication Engineering Department, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, UP
(3 years and 8 months)
- July 2013 – December 2015 **Assistant Professor**
Electronics and Communication Engineering Department, Allenhouse Institute of Technology, Rooma, Kanpur, UP
(2 years and 5 months)
- June 2012 – July 2013 **Assistant Professor**
Electronics and Communication Engineering Department, Naraina College of Engineering and Technology, Ratanpur, Kanpur, UP
(1 year and 1 month)

PUBLICATIONS & REVIEW

ORCID : 0000-0002-2889-4275

Publons/Web of Science ResearcherID : I-9311-2017

SCI/SCIE

- [1] **Gautam, P. R.,** Kumar, S., Verma, A., Rashid, T., & Kumar, A. (2019). Energy-Efficient Localization of Sensor Nodes in WSNs Using Beacons from Rotating. *IEEE Transactions on Industrial Informatics*, 15(11), 5827–5836. <https://doi.org/10.1109/TII.2019.2908437>

- [2] **Gautam, P. R.,** Kumar, S., Verma, A., & Kumar, A. (2020). A Novel Energy-Efficient Localization of Sensor Nodes in WSNs using Single Beacon Node. *IET Communications*, 15(11), 1–1. <https://doi.org/10.1049/iet-com.2019.1298>
- [3] Verma, A., Kumar, S., **Gautam, P. R.,** Rashid, T., & Kumar, A. (2020). Fuzzy Logic based Effective Clustering of Homogeneous Wireless Sensor Networks for Mobile Sink. *IEEE Sensors Journal*, 1–1. <https://doi.org/10.1109/JSEN.2020.2969697>
- [4] Kumar, S., **Gautam, P. R.,** Verma, A., Rashid, T., & Kumar, A. (2020). An Energy-Efficient Transmission in WSNs for Different Climatic Conditions. *Wireless Personal Communications*, 110(1), 423–444. <https://doi.org/10.1007/s11277-019-06735-x>
- [5] Verma, A., Rashid, T., **Gautam, P. R.,** Kumar, S., & Kumar, A. (2019). Cost and Sub-Epoch Based Stable Energy-Efficient Clustering Algorithm for Heterogeneous Wireless Sensor Networks. *Wireless Personal Communications*, 107(4), 1865–1879. <https://doi.org/10.1007/s11277-019-06362-6>
- [6] Yadav, M., **Gautam, P. R.,** Shokeen, V., & Singhal, P. K. (2017). Modern Fisher–Yates Shuffling Based Random Interleaver Design for SCFDMA-IDMA Systems. *Wireless Personal Communications*. <https://doi.org/10.1007/s11277-017-4492-9>

Scopus/UGC-listed

- [7] Rashid, T., Kumar, S., Verma, A., **Gautam, P. R.,** & Kumar, A. (2019). RB-IEMRP: RELAY BASED IMPROVED THROUGHPUT ENERGY-EFFICIENT MULTI-HOP ROUTING PROTOCOL FOR INTRA BODY SENSOR NETWORK (INTRA-WBSN). *International Journal of Computer Networks & Communications*, 11(02), 69–82. <https://doi.org/10.5121/ijcnc.2019.11205>
- [8] Kumar, S., **Gautam, P. R.,** Rashid, T., Verma, A., & Kumar, A. (2018). ETDCC : Energy-Efficient Transmission Scheme for Dynamic Climatic Conditions in WSN. 16(3), 1126–1134. <https://doi.org/10.12928/TELKOMANIKA.V16i3.8513>
- [9] Rashid, T., Kumar, S., Verma, A., **Gautam, P. R.,** & Kumar, A. (2018). Pm-EEMRP: Postural movement based energy efficient multi-hop routing protocol for intra wireless body sensor network (Intra-WBSN). *Telkomnika (Telecommunication Computing Electronics and Control)*, 16(1). <https://doi.org/10.12928/TELKOMANIKA.v16i1.7318>
- [10] Verma, A., Rashid, T., **Gautam, P. R.,** Kumar, S., & Kumar, A. (2017). Fuzzy based Stable Clustering Protocol for Heterogeneous Wireless Sensor Networks. *International Journal of Engineering and Technology*, 9(4), 2854–2860. <https://doi.org/10.21817/ijet/2017/v9i4/170904046>

Conferences proceedings and book chapters

- [11] **Gautam, P. R.,** Kumar, S., Verma, A., Rashid, T., & Kumar, A. (2020). Localization of Sensor Nodes in WSN Using Area Between a Node and Two Beacons. https://doi.org/10.1007/978-981-32-9775-3_22
- [12] Verma, A., Kumar, S., **Gautam, P. R.,** & Kumar, A. (2020). Stable Energy-Efficient Routing Algorithm for Dynamic Heterogeneous Wireless Sensor Networks. https://doi.org/10.1007/978-981-32-9775-3_15
- [13] **Gautam, P. R.,** Kumar, S., Verma, A., & Kumar, A. (2019). Localization of Sensor Nodes in WSNs using Three-Dimensional Angle of Arrival detection at BS. *2019 International Conference on Electrical, Electronics and Computer Engineering (UPCON)*, 1–4. <https://doi.org/10.1109/UPCON47278.2019.8980262>
- [14] Kumar, S., **Gautam, P. R.,** Verma, A., Verma, R., & Kumar, A. (2019). Energy Efficient Routing using Sectors Based Energy-Hole Reduction in WSNs. *2019 International Conference on*

Electrical, Electronics and Computer Engineering (UPCON), 1–4.

<https://doi.org/10.1109/UPCON47278.2019.8980254>

- [15] Kumar, A., Kumar, S., **Gautam, P. R.**, Verma, A., & Rashid, T. (2019). *Performance Evaluation of Multi-operands Floating-Point Adder*. https://doi.org/10.1007/978-981-13-2685-1_51
- [16] Kumar, S., Verma, A., **Gautam, P. R.**, Dayal, A., & Kumar, A. (2018). The Load Balancing of Optimizing LEACH Clustering Algorithm with Mobile Sink and Rendezvous Nodes. *2018 5th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)*, 1–6. <https://doi.org/10.1109/UPCON.2018.8596989>

Peer reviewer of following Journals/Conferences

- IEEE Transactions on Industrial Informatics (**Three reviews submitted**)

RESEARCH INTEREST

Wireless Sensor Networks, CDMA, Brain-wave Mapping.

KEY SOFTWARE SKILLS AND CHARACTERISTICS

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| <ul style="list-style-type: none">• Matlab• LaTeX (tikz/beamer)• Github, Github pages, Jekyll, Web design, hosting and server management, WordPress, (Designed and hosted conference (vcas2018) website at MNNIT ECED available online at mnnit.ac.in/vcas2018)• Linux, Terminal, and Windows | <ul style="list-style-type: none">• Python (Designed GUI based hotspot software available online at fwh.mgeek.in)• Photoshop/ Corel draw / Inkscape / GIMP• LabVIEW/LTspice• Good typing speed• Adaptability |
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AWARDS, ACHIEVEMENTS & MEMBERSHIP

- Awarded **Rajiv Gandhi National Fellowship** for PHD from 2017 to current.
- **Seven** times **GATE (EC)** qualified
- **Three** times **NET (Electronic Sciences)** qualified
- IEEE Student member ID: **91250146**

PERSONAL PROFILE & DECLARATION

Date of birth: **17 June 1987**

Father's name: **SHRIRAM GAUTAM**

Mother's name: **ARCHANA GAUTAM**

I consider myself to be familiar with the various aspects of electronics and communication engineering. I hereby declare that the above information given is true to the best of my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.