PRATEEK RAJ GAUTAM





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EDUCATION

June 2016 -Ph.D. Full time/Regular (EC / Sensor Localization in WSNs) at MNNIT Allahabad, Prayagraj (Thesis writing in progress, published in IEEE Present (3 years and 8 Transaction on Industrial Informatics, impact factor = 7.377, IEEE IET **Communications** as first author). months)

July 2009 -M. Tech. (Electronics and Communication Engineering)

December 2011 from Harcourt Butler Technological Institute Kanpur, UP with 67.55%.

2008

July 2004 – June B. Tech. (Electronics and Communication Engineering)

from University Institute of Engineering and Technology, CSJMU Kanpur, UP

with 62%.

EXPERIENCE

July 2013 -**Assistant Professor**

December 2015 Electronics and Communication Engineering Department, Allenhouse

(2 years and 5 Institute of Technology, Rooma, Kanpur, UP.

months)

June 2012 – July Assistant Professor

2013 Electronics and Communication Engineering Department, Naraina College or

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 Directional Antenna. 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/TELKOMNIKA.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 Multioperands 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
- [17] Roy, S., Gautam, P. R., & Yadav, M. (2016). QRS complex detection and filtering of ECG signal using wavelet transform International, *Journal of Computer Engineering and Applications*, X(Vi), 35–44.
- [18] Singh R., Gautam, P. R., & Sharma, A. (2015). Energy Efficient Design of Multiplexer Using Adiabatic logic. Int. Journal of Electrical & Electronics Engg., 2(1), 2426.

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

- · 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 ·Python

(Designed GUI based hotspot software available online at fwh.mgeek.in)

- Photoshop/ Corel draw / Inkscape / GIMP
- · LabVIEW/LTspice
- Good typing speed
- Adaptability

AWARDS, ACHIEVEMENTS & MEMBERSHIP

- Awarded Rajiv Gandhi National Fellowship for PHD from 2017 to current.
- Eight times GATE (EC) qualified.
- Three times NET (Electronic Sciences) qualified.
- IEEE student member (4 years) 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.