Ajit Kumar Singh

Ph.D. Candidate, Dept. of ECE, IIIT Ranchi

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Education

2019 – till date — **Ph.D., Indian Institute of Information Technology, Ranchi, Jharkhand** Thesis title: *Design, and Analysis of Wideband MIMO Antenna System for Wireless Applications*

2017 – 2019 — **M.Tech, Electronics and Communication, J C Bose University of Science and Technology, Faridabad, Haryana** Thesis title: *Design of Graphene based patch antenna for 5G MIMO system.*

2011 – 2015 — **B.Tech, Electronics and Communication, Dr. A.P.J Abdul Kalam Technical University, Lucknow, Uttar Pradesh** Project title: *Bluetooth based home automation system.*

Research Publications

Journal Articles

1. **Singh, A. K.**, Mahto, S. K., Kumar, P., Mistri, R. K., & Sinha, R. (2022). Reconfigurable circular patch mimo antenna for 5g (sub-6ghz) and wlan applications. *International Journal of Communication Systems*.
2. **Singh, A. K.**, Mahto, S. K., & Sinha, R. (2022b). A compact quad element mimo antenna for lte/5g (sub-6 ghz) applications. *Frequenz*.
3. **Singh, A. K.**, Mahto, S. K., & Sinha, R. (2022d). Quad element mimo antenna for lte/5g (sub-6 ghz) applications. *Journal of Electromagnetic Waves and Applications*, 1–16.
4. **Singh, A. K.**, Mahto, S. K., & Sinha, R. (2022e). Reconfigurable dual element dual band mimo antenna for 5g (sub-6 ghz) and wlan applications. *COMPEL-The international journal for computation and mathematics in electrical and electronic engineering*, (ahead-of-print).
5. **Singh, A. K.**, Mahto, S. K., & Sinha, R. (2021a). A miniaturized mimo antenna for c, x, and ku band applications. *Progress In Electromagnetics Research C*, *117*, 31–40.
6. **Singh, A. K.**, Mahto, S. K., & Sinha, R. (2021b). Compact super-wideband mimo antenna with improved isolation for wireless communications. *Frequenz*, *75*(9-10), 407–417.

Conference Proceedings

1. **Singh, A. K.**, Mahto, S. K., & Sinha, R. (2022a). *Dual element mimo antenna with improved radiation efficiency for 5g millimeter-wave applications*. IEEE.
2. **Singh, A. K.**, & Kaur, P. (2019). *Design of graphene based antenna for 5g mimo system*. IEEE.

Book Chapters

1. **Singh, A. K.**, Mahto, S. K., & Kumar, R., Pand Sinha. (2022). High efficiency hexagonal shaped quad element mimo antenna for terahertz applications. In *Terahertz devices, circuits and systems - materials, methods and applications* (Accepted). Springer Nature Singapore.

2 **Singh, A. K.**, Mahto, S. K., & Sinha, R. (2022c). Dual-element cpw-fed mimo antenna for ism band application. In *International conference on computational techniques and applications* (pp. 245–252). Springer.

Skills

Languages	English, Hindi.
Coding	Matlab, Python, C
Soft tools	HFSS, ADS, Mathematica.
Misc.	Academic research, teaching, LaTeX typesetting and publishing.

Miscellaneous Experience

Awards and Achievements

- 2017,2019 **GATE Fellowship**, During M.Tech & Ph.D. program.
- 2019,2021 **UGC-NET Qualified**
- 2010 **Chemistry olympiad** , Issued by Indian association of physics teachers, Mar 2010.

Certification

- 2018,2020,2020 **SIX SIGMA, Antenna, Digital Electronic Circuit**. Awarded by NPTEL.

Industrial Training

- 2013-14 **Passive Infrastructure in Telecommunication (4 weeks)**. VIOM Networks, Noida.
- 2012-13 **Embedded and Robotics Level-I (4 weeks)**. Appin Technology Lab Noida.

Professional Affiliation

IEEE Student Member

IEEE APS Member

Personal Information

Date of Birth: 31 March 1993

Father's Name: Shri Om Prakash Singh

Address for correspondence

Ajit Kumar Singh

Research Scholar

Dept. of Electronics & Communication Engg.

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References

Dr. Santosh Kumar Mahto

Assistant Professor

References (continued)

Indian Institute of Information Technology Ranchi,
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Dr. Rashmi Sinha,
Associate Professor
Dept. of Electronics and Communication Engineering
National Institute of Technology Jamshedpur
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Declaration

I hereby declare that the above particulars are true to the best of my knowledge and belief.