Dr. Ankur Thakur

Faculty

Indian Institute of Information Technology, Una

Email: ankurece@iiitu.ac.in

Mob: +91-98052-33669

ACADEMIC QUALIFICATIONS: -

Degree Obtained	Discipline	Board/University	Year of Passing	%age/ CGPA
Ph. D.	Electronics and Communication Engineering	Panjab University, Chandigarh	2022	
M. Tech.	Electronics and Communication Engineering	Jaypee University of Information Technology, Solan	2016	90.00
B. Tech.	Electronics and Communication Engineering	Lovely Professional University, Phagwara	2012	7.94
Senior Secondary	Science	HP Board of School Education, Dharamshala	2008	76.00
Matriculation	General	HP Board of School Education, Dharamshala	2006	82.14

TEACHING EXPERIENCE: -

Position	Institution	From	То	Nature of Work
Faculty	Indian Institute of Information Technology, Una	Jun 2023	Present	Teaching and research
Assistant	Chandigarh University,	Nov 2022	May 2023	Teaching and
Professor	Gharuan	100 2022	Widy 2023	research
Lecturer	National Institute of	Jul 2016	Dec 2017	Teaching and
	Technology, Hamirpur	Jul 2010		research
Lecturer	Shivalik Polytechnic, Una	Sep 2012	Jun 2014	Teaching

RESEARCH PUBLICATIONS: -

In Journals: -

- A. Thakur and D.S. Saini, "Mitigating peak side-lobe levels in pulse compression radar using classical orthogonal polynomials" *Wireless Networks*, vol. 28, pp. 2889-2899, Jun 2022.
- A. Thakur and D.S. Saini, "Modifying polyphase codes to mitigate range side-lobes in pulse compression radar" *Wireless Personal Communications*, vol. 123, pp. 693-707, Mar 2022.
- A. Thakur and D.S. Saini, "MIMO radar sequence design with constant envelope and low correlation side-lobe levels" *International Journal of Electronics and Communications*, vol. 136, Jul 2021.
- A. Thakur and D.S. Saini, "Correlation processor based side-lobe suppression for polyphase codes in radar systems" *Wireless Personal Communications*, vol. 115, pp. 377-389, Nov 2020.
- A. Thakur and D.S. Saini, "Bandwidth optimization and side-lobe levels reduction in PC radar using Legendre orthogonal polynomials" *Digital Signal Processing*, vol. 101, Jun 2020.
- A. Thakur, S.R. Talluri and R.K. Panigrahi, "Sidelobe reduction in pulse compression having better range resolution" *Computers and Electrical Engineering Journal*, vol. 74, pp. 520-532, Mar 2019.
- A. Thakur and S.R. Talluri, "Comparative analysis on pulse compression with classical orthogonal polynomials for optimized time-bandwidth product" *Ain Shams Engineering Journal*, vol. 9, pp. 1791-1797, Dec 2018.

In Conferences and Book Chapters: -

- A. Thakur and D.S. Saini, "Transmit waveform design to avoid target masking in pulse compression radar" *International Conference on Communication and Signal Processing*, pp. 097-101, Jul 2020.
- A. Thakur and D.S. Saini, "Ambiguity function analysis of polyphase codes in pulse compression radars" *International Conference on Computing Applications in Electrical and Electronics Engineering*, pp. 151-158, Mar 2020.
- A. Thakur, S.R. Talluri and S. Kaushik, "Radial velocity distortion reduction for NLFM based radar system using a notch filter" *International Conference on Computing and Smart Communication*, pp. 643-656, Apr 2019.
- A. Thakur, S.R. Talluri and P.K. Verma, "Chebyshev polynomials based pulse compression waveform for modern microwave radars" *International Conference on Computing and Smart Communication*, pp. 665-675, Apr 2019.
- A. Thakur, S.R. Talluri and D.S. Saini, "Signal generation employing Chebyshev polynomial for pulse compression with small relative side-lobe level" *International Conference on Sensing, Signal Processing and Security*, pp. 114-118, May 2017.

• A. Thakur and S.R. Talluri, "A novel pulse compression technique for side-lobe reduction using woo filter concepts" *International Conference on Communication and Signal Processing*, pp. 1086-1090, Apr 2017.

RESEARCH INTERESTS: -

- Radar Signal Processing
- MIMO Applications
- Wireless Communication

CITATION DETAILS: -

- On google scholar <u>https://scholar.google.com/citations?hl=en&user=4940kyMAAAAJ</u>
- On scopus <u>https://www.scopus.com/authid/detail.uri?authorId=57193124577</u>

ACADEMIC ACHIEVEMENTS: -

- Received DST INSPIRE fellowship for Ph.D. work.
- Qualified UGC-NET in Electronic Science for Assistant Professor.
- Received Vice-Chancellor's Gold Medal for standing first in post-graduation.
- Got best paper award in the "9th IEEE-International Conference on Communication and Signal Processing" held at APEC, Chennai.
- Qualified two times GATE exam with the highest 96.86 percentile.

Ankur Thakur