

Profile Page



Name : Dr Sateesh Kumar Awasthi
Designation : Assistant Professor Grade-i
Department : Electronics and Comm. Engg.
Qualification : Ph.D. SPCOM (IIT Kanpur)
M.Tech VLSI (UPTU Lucknow)
B.E. ECE (G. B. Pant Engineering College, Pauri (Garhwal))
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Research Interests :

Peer-to-Peer Networks, Complex Networks, Wireless Sensor Networks, Social Networks, Application of Linear Algebra and Game Theory in Networks, Statistical Signal Processing, Convex Optimization.

Other Profile Links :

Google Scholar Link :

Google Scholar [Click Here](#)

Personal Web Link :

Vidwan [Click Here](#)

Journal Publications :

Year	Journal	Publication
2022	International Journal of Sensor Networks, Inderscience, Vol. 38, Issue 04, pp. 215-240, April 2022.	Shivani Sharma and S. K. Awasthi, "Introduction to Intelligent Transportation System: Overview, Classification Based on Physical Architecture, and Challenges"
2020	IEEE Transactions on Dependable and Secure Computing, Vol 19, Issue 01, pp. 176 - 189, Jan/Feb 2022	S.K. Awasthi and Y. N. Singh, "AbsoluteTrust: algorithm for aggregation of trust in peer-to-peer networks"
2019	Journal of Parallel and Distributed Computing-Elsevier Vol. 124, pp. 106 - 118	S. K. Awasthi and Y. N. Singh, Simplified Biased Contribution Index (SBCI): A Mechanism to Make P2P Network Fair and Efficient for Resource Sharing"
2018	IET Electronics Letters, Volume 54, Issue 20, 04 October 2018, pp. 1174 – 1176	S. K. Awasthi and Y. N. Singh, "Biased Contribution Index: A New Faster Convergent Index to Maintain the Fairness in Peer-to-Peer Networks"

2016	IEEE Communications Letters 20 (7), 1345-1348	S. K. Awasthi and Y. N. Singh, "Generalized Analysis of Convergence of Absolute Trust in Peer-to-Peer Networks"
2010	Information Science and Technology, vol.1, Issue 2, 2010, pp. 01-04.	S. Mishra and S. Awasthi, "Design and optimization of Patch Antenna for WLL-Cor-DECT Technology using IE3D",

Conference Publications :

Year	Conference	Publication
2021	12th ICCCNT 2021, July 6-8, 2021 - IIT - Kharagpur	Rupesh Kumar and S. K. Awasthi, "Link Capacity Division in P2P File Sharing System"
2021	12th ICCCNT 2021, July 6-8, 2021 - IIT - Kharagpur	Vaibhav Goel and S. K. Awasthi, "Optimization of Cooperative Dairy Supply Chain Network with Risk Factors under Labor Shortage in The Covid-19 Pandemic"
2021	International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICES)	Nakul Giri and S. K. Awasthi, "Edge Delay and Communication Phase in Consensus Network"
2020	11th ICCCNT 2020, July 1-3, 2020 - IIT - Kharagpur	N. Malik, S.K. Awasthi and N. Sood, "Centrality as a Friendship Selection Heuristic in Social Internet of Things"
2019	ICEIT MCNC 2019, 11-12 April 2019, New Delhi.	Chaitanya Kumar and S.K. Awasthi. "RSS Based Localization in the Presence of Unknown Path-Loss-Exponent"
2017	ICEIT MCNC 2017, 16-17 February 2017, New Delhi. (Given Best Paper Award for conceptual Framework)	S. K. Awasthi and Y.N. Singh, "Reputation System and Incentive Mechanism to Handle the Malicious Peers and Free-riders in Peer-to-Peer Networks,"
2015	ICEIT MCNC 2015, 16-17 April 2015, New Delhi.	Anurag Dwivedi, S. K. Awasthi, Ashutosh Singh, Y. N. Singh, "Flash Crowd Handling in P2P Live Video Streaming Systems,"

Research Projects :

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
Senior Project Engineer	Consultancy Project	Estimation of the Location of Base Station and Mobile Phone Using RSS	LG Soft India Private Limited)	01-08-2017	03-01-2018	5 Lakhs	Completed	
PI	R&D	Development of NavIC based Asset Tracking system	ISRO	15 March 2020	Ongoing	21 Lakhs	Ongoing	Dr Pawan Kumar Verma

PI	R&D	Design and development of D-sub miniature space grade connectors for space applications	ISRO	15 March 2020	Ongoing	24 Lakhs	Ongoing	Dr Ashok
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Events Organized :

Category	Type	Title	Venue	From	To	Designation
STC	National	Emerging Trends and Challenges in Communication System	NIT Jalandhar	11-01-2021	15-01-2021	Coordinator

Professional Affiliations :

Designation	Organization
Member	IEEE

PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Gagandeep Kaur	To be decided	Ongoing	2022	
Ajay Kumar	Estimation of the velocity of mobile station in the heterogeneous network	Ongoing	2020	
Shivani Sharma	Implementation of intelligent transportation system	Ongoing	2019	

PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Rupesh Kumar	Link Capacity Division in P2P File Sharing System	Completed	2021	
Nakul Giri	Edge Delay and Communication Phase in Consensus Network	Completed	2021	
Vaibhav Goel	Optimization of Cooperative Dairy Supply Chain Network with Risk Factors under Labor Shortage in The Covid-19 Pandemic	Completed	2021	
Ankush Koundal	Joint Resource Reuse in D2D-enabled Clustered LTE-A Network assisting Internet of Things	Completed	2021	Dr Pawan Kumar Verma
Nishu Malik	Centrality as a Friendship Selection Heuristic in Social Internet of Things	Completed	2020	Dr Neetu Sood
Amer Hanief Kohli	Consensus Building in a Multi-Agent and Multi-Group Social setup	Completed	2020	

Admin. Responsibilities :

Position Held	Organization	From	To
Coordinator of Hindi Cell	NIT Jalandhar	05-02-2020	Till now