

Summary of Credentials

Dr. Abdul Ahad

Assistant Professor (C)
CED, NIT Srinagar, J&K, India

LinkedIn: [linkedin.com/in/abdul-ahad-iitb/](https://www.linkedin.com/in/abdul-ahad-iitb/)

Research Gate: <https://bit.ly/3uhfC5R>

Ph.D (Jamia Millia Islamia, 2025)

Specialization

Civil Engineering

: Transportation Engineering

Publication:

(See Annexure– I)

Patent Grant

: 04

Patent Published

: 11

Paper/ Chapter/ Articles

: 47

(SCIE: 03; ESCI: 03, SCOPUS:08)

Book

: 01

Book Chapter

: 01

International Journal

: 23

International Conference

: 12

National Conference

: 03

Presented (Only)

: 07

Citations

: 137

h-index

: 7

i10-index

: 3

Professional Activity:

Membership of Technical Associations

: 7

(See Annexure– II)

Reviewer (Journal/ Conference)

: 10

Invited Talk

: 07

Workshops/Conferences/Symposium Attended

:131

Workshops/Seminars/Tour/Tech-Fest Organised

:50

Refresher Course Attended

:88

Refresher Course Organised

:04

Project/Thesis Supervision

:06

(See Annexure– III)

M. Tech

:01

B. Tech

:05

(Abdul Ahad)

Dr. ABDUL AHAD

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Researcher ID: [N-1542-2015](https://www.researcherid.com/rid/N-1542-2015)

Vidwan-ID: 223720



Career Objective:-

Transportation systems researcher specializing in data-driven travel demand modeling, parking management, and AI-based mobility analytics. Experienced in integrating econometric, and computer vision approaches for sustainable urban transport planning. Author of 40+ publications and 14 patents, with national and international media recognition.

PROFESSIONAL EXPERIENCE:

- *Assistant Professor (Contractual), National Institute of Technology (NIT) Srinagar, J&K, India (August, 2026 – Present)*
- *Project Research Scientist , Indian Institute of Technology (IIT) Bombay, Mumbai, India (December 2025 – August, 2026)*
- *Project Research Associate, Indian Institute of Technology (IIT) Bombay, Mumbai, India (June 2025 – December 2025)*
- *Assistant Professor (Guest), Jamia Millia Islamia New Delhi (Jan 2025 – June 2025)*
- *Assistant Professor, Mohammad Ali Jauhar University, Rampur, U.P., India (Apr 2017 – Sep 2018)*

Media Coverage of Research:

- ❖ Featured in *Hindustan Times* (April 21, 2026) for providing expert insights on BMC's Smart Parking initiative in Mumbai, with emphasis on technology-enabled parking management for reducing congestion and improving urban mobility (<https://www.hindustantimes.com/cities/mumbai-news/bmc-redraws-smart-parking-plan-after-failed-tender-bids-101776713231562.html>)
- ❖ Featured by leading print and digital media for Ph.D. research on AI-enabled urban parking management and smart parking guidance systems for Delhi. The coverage highlighted the research contribution toward reducing parking search time, congestion, and emissions through data-driven parking allocation, pre-trip parking information, behavioral modeling, and technology-based parking management solutions. Press coverage included:
 - The Indian Express, Sept 23, 2025
 - ET Infra, Sept 13, 2025 (Digital)
 - The Times of India (TOI), Sept 13, 2025
 - Hindustan, Sept 11, 2025
 - Hindustan, Sept 9, 2025 (Digital)

Annexure–I Research Publications

• Details of Publications:

Total No. of Citations	137
h-index	7
i10-index	3

PATENT GRANT

04

4.	Malineni B., Poluraju P., Dohare D., Ahad A. “AI based DRONE for construction site inspection”, Patent Grant in Indian Patent. (Patent Application No: 458043-001)
3.	Ahad A. , Khan Z. R., Siddiqui A., Khan A. M., Hybrid VTOL Drone for Construction Inspection, Patent Grant in Indian Patent (Patent Application No.: 427541-001)
2.	Ahad A. , (December, 2024), Digital Level Angle Measuring Tool in Construction, Patent Grant in Indian Patent (Patent Application No.: 408908-001)
1.	Ahad H. S., P. Manoj., Ahad A. , Dutta A. K., Baradiya V. K., Jivani D. K., Prasad C. V. S. R., (April, 2024), Safety Helmet for Civil Engineers, Patent Grant in Indian Patent (Patent Application No.: 407925-001)

PATENT PUBLISHED

11

11.	Nagori M.N., Ahad A., “Portable Pollution cum Dust Suppression Unit for automobiles” Patent applied in India patent. (Patent Application No: 20231057383)
10.	Dutta K. A., Dohare D., Prasad N. S., Ahad A. , Danwalkar H. P., Samdani G., Avhad S. H., Gorade S. B., (Oct, 2023) “Development of Artificial Intelligence Techniques to predict the Compressive and Split Tensile Strength of Silica Fume Concrete”, Patent published in India patent. (Patent Application No: 202331052390)
09.	Ahad A. , Kidwai F.A., Asim M., Chandrasekharan C.P., (Oct, 2023) “OPAM: Optimal Parking Allocation Model” Patent published in Indian patent. (Patent Application No: 202311067294)
08.	Rathod R.G., Dohare D., Ahad A. , Baradiya V.K., Siddhartha C., Alyaseen A., Hemanth P., Sonawane S. K., Anusha G., (Oct, 2023) “Development of Sustainable Pavements on Clay Subgrades Treated with Cementitious Materials”, Patent published in India patent. (Patent Application No: 202331053269)
07.	Choudhury I. B. R., Mohite S. B., Jalali M. S., Ahad A. , Reddy G. M. K., Parveen P., Goutam R., Devayani V. R. S., (Sept, 2023) “Experimental investigation on Fiber Reinforced Concrete with fibers for sustainable construction Industry in India”, Patent published in India patent. (Patent Application No: 202341049285)
06.	Swetha A., Suguna K., Raghunath P.N., Khan K. M. I., Jessie J.A., Sreenivasulu D., Ahad A. , (Sept, 2023) “Performance of steel fiber reinforcement concrete on pavements involving nano silica and zeolite”, Patent published in India patent. (Patent Application No: 202341045934)
05.	Pathak Y., Ahad A. , Mendhe V., Alam M.P., (June, 2023), “Development of Artificial Intelligence methods for planning of the transportation network”, Patent published in India patent. (Patent Application No: 202311035349)
04.	Dhake, J.C., Saurav, Sahare J.J., Ahad A. , Kilol A.J., (June, 2023) , “Artificial intelligence and Machine learning methods to predict the strength of geo-polymer Concrete”, Patent published in India patent. (Patent Application No: 202321031644)
03.	Vamsi T., Ahad A. , Kudachimath S.N., Bhende S.S., Rasal S.A., Pathak Y., (May, 2023), “Artificial Intelligence techniques for network traffic prediction model considering road traffic parameters”, Patent published in India patent. (Patent Application No: 202341029620)
02.	Sharma D.K., Patil S.K., Javheri S.B., Ahad A. , (May, 2023) “Artificial Intelligence methods for predicting flexural strength of concrete containing nano silica and calcium carbide residue” Patent published in India patent. (Patent Application No: 202311028965)

01.	Panda R.C., Verma K., Gowtham M.S., Pillai B., Nakekella A.K., Ahad A. , Dixit P., (Aug, 2020) “Solar Powered Organic Compost Machine” Patent published in India, Patent Application No. 331564-001 (2020)
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BOOK CHAPTER:

1	Ahad A. , Kidwai F.A., Khan Y., (2020) Application of ICT in parking system, Smart Cities—Opportunities and Challenges. Lecture Notes in Civil Engineering, vol 58. Springer, Page: 1-7, E-ISSN: 978-981-15-2545-2 https://doi.org/10.1007/978-981-15-2545-2_1 (Scopus Indexed, Scopus Citation 2)
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PAPERS PUBLISHED IN INTERNATIONAL JOURNAL:

23.	Ahad, A. , Abdelfatah, A., Smart Parking Management Systems in the Era of Digital Mobility: A Comprehensive Review, IEEE Transactions on Intelligent Transportation Systems. (under review)
22.	Ahad, A. , Kidwai, F., “Understanding Drivers’ Perception Toward Parking Guidance Systems: A YOLOv4-Based Framework for Real-Time Parking Management in New Delhi”, International Journal of Intelligent Transportation Systems Research, Springer Nature. (under review)
21.	Ahad, A. , Kidwai, F., Analysis and Modification of Webster Formula to Design an Optimum Traffic Signal for Heterogeneous Indian Traffic Conditions, Transportation, Springer Nature. (under review)
20.	Ahad, A. , Kidwai, F., Comparative Evaluation of YOLO Architectures for Real-Time Parking Space Detection in Urban Environments: Enabling Sustainable and Scalable Smart-City Mobility, Scientific Report, Nature. (under review)
19.	Ahad, A. , Kidwai, F., “Modeling the Impact of Parking Search Behaviour on Traffic Congestion in Delhi: Evidence from Driver Surveys and Field Traffic Observations”, Journal of Traffic and Transportation Engineering (English Edition). (under review)
18.	Ahad, A. , Kidwai, F., Impact of Parkers Behavior on Urban Traffic Congestion: A Case Study of Delhi", Transportation in Developing Economics, Springer Nature. (under review)
17.	Ahad, A. , Kidwai, F.A. & Alqadhi, S. (2026) AI-Augmented Real-Time Parking Occupancy Detection and Prediction: Integrating Computer Vision with User Behavioral insights for Delhi’s mixed-traffic ecosystem. Transportation, Springer Nature.. https://doi.org/10.1007/s11116-026-10767-1 (SCIE Indexed)
16.	Ahad, A. , Kidwai, F.A., (2025) YOLO based approach for real-time parking detection and dynamic allocation: integrating behavioral data for urban congested cities. Innovation Infrastructure Solution, Springer Nature. Vol. 10, 252 https://doi.org/10.1007/s41062-025-02041-7 (ESCI Indexed)
15.	Ahad, A. , Kidwai, F., (2025) Improving Urban Traffic Flow through Optimized Parking Model: A Case Study of Commercial Hub of Delhi", Innovation Infrastructure Solution, Springer Nature. Vol. 10, 168. https://doi.org/10.1007/s41062-025-01979-y . (ESCI Indexed)
14.	Ahad, A. , Kidwai, F., (2025), Navigating Parking Choices: Drivers' Perspectives on Parking Guidance and Information Systems: A Survey-Based Case Study, Innovation Infrastructure Solution, Springer Nature, Vol. 10, https://doi.org/10.1007/s41062-025-01877-3 . (ESCI Indexed, Scopus Citation 2)
13.	Ahad, A. , Kidwai, F., (2025) Addressing Urban Traffic Congestion in New Delhi through Novel Parking Guidance and Information System", Cureus Journal of Engineering, Springer Nature. https://doi.org/10.7759/s44388-024-00526-2 . (Scopus Indexed, Scopus Citation 1)
12.	Ahad, A. , Kidwai, F., (2025), Mitigating Urban Traffic Congestion through OPSAM in New Delhi: A YOLO-v4 based Parking Guidance and Information System", Journal of The Institution of Engineers (India): Series A., Springer Nature. https://doi.org/10.1007/s40030-024-00860-y . (Scopus Indexed, Scopus Citation 2)
11.	Ahad, A. , Kidwai, F.A. (2024), Pre- Trip Parking Choice and Parking Guidance System for City of New Delhi: A Comprehensive Two-Phase Model. Journal of The Institution of Engineers (India): Series A, Springer Nature. https://doi.org/10.1007/s40030-024-00846-w . (Scopus Indexed, Scopus Citation 2)
10.	Khatri A., P., Veena K., Ahad, A. , Patil U., P., Manjunatha H, Premsudha R., (2024), Prediction of strength properties of Geo-polymer Concrete by using Artificial Intelligence and Machine Learning Techniques, Educational Administration: Theory and Practice (ISSN:1300-4832, E-ISSN: 2148-2403) https://doi.org/10.53555/kuey.v30i5.5124 . (Scopus Indexed)
09.	Ahad, A. , Chaudhary D. K., Ugasini, S., (2024), Experimental Investigation Geo-polymer Concrete with plastic aggregates for

	sustainable development, Material Science and Technology (ISSN: 1005-0299) https://advancedengineeringsscience.com/article/2024/285.html . (Scopus Indexed)
08.	Khatri A. P., Ramvath S., Ahad A. , Tanuja D.V., (2024), Evaluation of Mechanical Properties of Concrete with Jute Fiber, Journal of Advanced Zoology, Volume 45, Issue 3, ISSN: 0253-7214, pp: 156-162. https://doi.org/10.53555/jaz.v45i3.4266 . (Scopus Indexed)
07.	Ahad, A. , Kidwai, F., (2023), Comprehensive analysis of urban vehicle parking challenges: a comprehensive Survey of Delhi, International Journal of Creative Research Thoughts – (IJCRT), Volume 11, Issue 12, December 2023, ISSN : 2320-2882, pp-c649-c657 https://www.ijcrt.org/viewfull.php?&p_id=IJCRT2312302
06.	Sharma S., Ahad, A. , (2019), "Online Parking System", International Journal of Science and Research (IJSR) Vol. 8 (Issue 9) Sept, 2019 (ISSN- 2319-7064) pp. 662-664 (I.F.-7.426)
05.	Ahad, A. , Khan Z.R., Srivastava S., (2017) "Application of IT in Supply of Construction Material Procurement" International Journal for Science and Advance Research In Technology, Vol. 3 (Issue 7), (ISSN -2395-1052) July 2017 (I.F.-6.224) (Citation 01)
04.	Izhar T., Khan H., Ahad, A. , Mumtaz N. (2016), "Effect Of Potassium Sulphate In The Presence Of Water On The Strength Of Concrete" International Journal for Science and Advance Research In Technology, IJSART Vol. 2, Issue 5, (ISSN-2395-1052) May 2016 (I.F.-6.224) (Citation 02)
03.	Khan H., Izhar T., Ahad, A. , Mumtaz N. (2016) "Effect Of Saline Water In Mixing And Curing On Strength Of Concrete" International Journal for Science and Advance Research In Technology, IJSART Vol. 2, Issue 5, (ISSN-2395-1052) May 2016 (I.F.- 6.224) (Citation 05)
02.	Ahad, A. , Khan Z.R. and Ahmad S.A. (2016) "Intelligent Parking System" World Journal of Engineering and Technology, vol 4, (ISSN 2331-4249) pp. 160-167. http://dx.doi.org/10.4236/wjet.2016.42014 (Citation 30)
01.	Ahad, A. , Khan Z.R. and Srivastava, S.D. (2015), "Application of Steel Fiber in Increasing the Strength, Life-Period and Reducing Overall Cost of Road Construction (by Minimizing the thickness of pavement)", World Journal of Engineering and Technology (WJET), vol 3, (ISSN 2331-4249) pp. 240-250. http://dx.doi.org/10.4236/wjet.2015.34025 (Citation 09)

PAPERS PUBLISHED IN INTERNATIONAL CONFERENCES:

12.	Ahad A. , Kidwai F.A., (2025), Comparative Evaluation of YOLO for Real-Time Parking Space Detection in Urban Environments, 11th International Conference on Transportation Systems Engineering & Management (CTSEM 2025), organized by Maulana Azad National Institute of Technology, Bhopal, M.P. on July 04-05, 2025.
11.	Ahad A. , Kidwai F.A., (2023), Effective AI-based Parking Management for Increasing Parking Supply in CBD of Delhi: A Comparative Review Study, ITRN Conference, organized by Atlantic Technological University Sligo, Ireland on August 31st and September 1st, 2023
10.	Ahad A. , Kidwai F.A., (2023), Need of AI-based parking system in congested areas of Delhi, 9th Conference on Transportation Systems Engineering and Management (CTSEM 2023), Organized by Department of Civil Engineering, National Institute of Technology Warangal, Telengana, India, from August 24-26, 2023
09.	Ahad A. , Sharma S., Kidwai F.A., Kidwai A.S., (2020), Application of ICT in the parking system, 2nd ASCE conference in India on "Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies (CRSIDE 2020)", March 02 - 04, 2020, Novotel Kolkata Hotel and Residences, Kolkata, India
08.	Ahad A. , Kidwai F.A., Khan Y., Rauf H., (2019), Online Material Procurement Technique, "International Conference on Smart Cities: Opportunities and Challenges" (ICSC-19), Proceeding in Springer, India chapter, March 14-16, 2019, organized by Jamia Millia Islamia, New Delhi
07.	Ahad A. , Anwar W., Khan H., Khan Y., Qadri I.K., (2019), Use of Bamboo bars in Reinforced Concrete, "International Conference on Modern Trends in Civil Engineering (Towards Sustainable development goals) ICMTCE-2019, Proceeding in International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES), March 01-02, 2019 organized by SRM University, Lucknow
06.	Ahad A. , Khan Y., Khan H., Anwar W., (2019), Utilization of Seawater instead of portable water in construction, "International Conference on Modern Trends in Civil Engineering (Towards Sustainable development goals) ICMTCE-2019, Proceeding in International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES), March 01-02, 2019 organized by SRM University, Lucknow
05.	Ahad A. , Anwar W., Khan H., Khan Y., (2019), Online Based parking system, "International Conference on Modern Trends in Civil Engineering (Towards Sustainable development goals) ICMTCE-2019, Proceeding in

	International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES), March 01-02, 2019 organized by SRM University, Lucknow
04.	Ahad A. , Khan H., Anwar W., Qadri I.K., (2019), Online Based Material Procurement System, "International Conference on Modern Trends in Civil Engineering (Towards Sustainable development goals) ICMTCE-2019, Proceeding in International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES), March 01-02, 2019 organized by SRM University, Lucknow.
03.	Ahad A. , Hasan S., (2017), Smart, Sustainable Civil Infrastructure Development, "1st ASCE conference in India on Urbanization Challenges in Emerging Economics, Dec 12-14, 2017, organized by IIT DELHI, New Delhi (https://doi.org/10.1061/9780784482025.078) (Scopus Citation 2)
02.	Ahad A. , Khan Z.R., Khan M.K., (2016), Application of I.T. in Construction Management, International Conference on Advancement in Computer Engg & Information Technology, IEEE, proceeding in International Journal of Computer Science and Information Technology, (IJCSIT), March 12-13, 2016 organized by Integral University, Lucknow
01.	Ahad A. , Khan Z.R., Ahmad S.A., Tayyab M., (2016), Role of IT in Parking Management, International Conference on Advancement in Computer Engg & Information Technology, IEEE, proceeding in International Journal of Computer Science and Information Technology, (IJCSIT), March 12-13, 2016 organized by Integral University, Lucknow

PAPERS PUBLISHED IN NATIONAL CONFERENCES:

03.	Ahad A., Khan Z.R., Khan M.K. (2016), Stabilization by Waste Sugarcane Fiber, National Conference on Advances in Geotechnical Engg. (AGE-2016), proceeding in Indian Geotechnical Society, Delhi, April 08-09, 2016, organized by Aligarh Muslim University, Aligarh.
02.	Zafar F., Ahad A., Khan Z.R. (2016), Application of Carbon Fiber Reinforced Polymer (CFRP) to the Highway Infrastructure: Overview, National Conference on Advances in Geotechnical Engg. (AGE-2016), proceeding in Indian Geotechnical Society, Delhi, April 08-09, 2016, organized by Aligarh Muslim University, Aligarh.
01.	Atif S.M., Ahad A., Husain S.A., Khan M.K. (2016), Enhance the Engineering Properties of Soil by Using Lime and Fly Ash for the Construction of Building Foundation, National Conference on Advances in Geotechnical Engg. (AGE-2016), proceeding in Indian Geotechnical Society, Delhi, April 08-09, 2016, organized by Aligarh Muslim University, Aligarh.

Annexure-II

Detail list of Membership / Reviewer of Technical Associations

Membership of Technical Associations:-

S.No	Institution Name	Member I.D. No.
1.	Chartered Institution of Highways & Transportation (CIHT)	P-000111477
2.	Institute of Transportation Engineers (ITE)	1089415
3.	American Society for Civil Engineers (ASCE)	000010481402
4.	American Concrete Institute (ACI)	2294042
5.	Institution of Civil Engineers (ICE)	93607882
6.	International Association of Engineers (IAENG)	382068
7.	Indian Geotechnical Society (IGS)	LM-1061

Reviewer

Journals:-

- Journal of Urban Planning and Development, ASCE
- Transportation Research Interdisciplinary Perspectives
- Journal of The Institution of Engineers (India): Series A
- Journal of Transportation Engineering, Part A- Systems, ASCE
- Autonomous Intelligent Systems, Springer Nature
- International Journal of Intelligent Transportation Systems Research, Springer Nature
- Innovative Infrastructure Solutions (IISS), Springer Nature
- Scientific Reports,

Conference:-

- International Conference on “Challenges And Innovations For Sustainable Smart Cities (CISSC-2025) organized by ASCE (India NR)
- 3rd International Conference on Advancement in Computation & Computer Technologies (InCACCT-2025), organized by IEEE (Delhi Section)

DECLARATION:-

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

Date: 10/ Sept/2026

Place: Srinagar

(Abdul Ahad)
