Ankit R. Patel

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Research Interests

- Personalization
- User-Centered Design
- Sociotechnical Systems
- Human Factors and Interaction

Education

2018 - 2024 **Ph.D in Electronics & Computer Engineering**
University of Minho, Guimarães, Portugal
- Thesis Topic : *Human Aware Assistance Systems for Cognitive Vehicles*
- Advisors : *Prof. Estela Bicho & Prof. Sergio Monteiro*

ADAS | human factors | interaction | personalization | users' experience

2009 - 2011 **Master of Technology in Electrical Engineering (Control Systems)**
Veermata Jijabai Technological Institute (VJTI), Mumbai
Mumbai University, Mumbai, India
- Thesis Topic : *Dynamics and Control of Biped*
- Advisor : *Prof. Dhirendra R. Mehta*

control systems | dynamical system | SQP

1999 - 2003 **Bachelor of Engineering in Electrical Engineering (Microprocessors & Microcontrollers)**
Government Engineering College (GEC), Modasa
Hemchandracharya North Gujarat University, Patan, India
- Thesis Topic : *Conceptualization of Design in the Context of Industry 4.0*
- Advisor : *Prof. Bhavik. N. Suthar*

design | concept | industry 4.0

Research Experience

2018-2021 Research Assistant

University of Minho, Guimaraes, Portugal
During my tenure at the University of Minho, Portugal I led two projects related to the theme "Experience is Everything – Easy Ride" collaborated with Bosch Car Multimedia Portugal, S.A., and co-financed by the European Regional Development Fund (ERDF) through PORTUGAL 2020 – Operational Program for Competitiveness and Internationalization (COMPETE 2020).

cognitive vehicle | preferences | personalization | cockpit

Publications

Journal Articles

[J6] 2026 - Sustainable Cities and Society

Aarti Desai, Krupesh A. Chauhan, and Ankit R. Patel
Enhance Quality of Life through Pedestrian-Friendly Cities to Cater Urban Sprawl : Looking into Design Perspective
Urban Science (Under Review)

Impact Factor : 13.3, Q1

[J5] 2026 - Future Transportation

Ankit R. Patel, Mukti Advani, Areen Alsaid, and Katarzyna Turon
Sustainable Transportation and Quality of Life
Future Transportation, 6(4), 158, July 2026
Impact Factor : 2.5, Q2
`https://doi.org/10.3390/futuretransp6040158`

[J4] 2024 - Transportation Planning and Technology

Ankit R. Patel, Sergio Monteiro, and Estela Bicho
A Journey From Users' Experience to Their Expectations in the Realm of Future Advanced Driver Assistance Systems
Transportation Planning and Technology, pp. 1-28, July 2024
Impact Factor : 2.2, Q2
`https://doi.org/10.1080/03081060.2024.2372366`

[J3] 2022 - Sustainability

Ankit R. Patel, Dhaval R. Vyas, Anilkumar Markana, and Raja Jayaraman
A Conceptual Model for Integrating Sustainable Supply Chain, Electric Vehicles, and Renewable Energy Sources
Sustainability, vol. 14, no. 21, pp. 14484, November 2022.
Impact Factor : 3.3, Q1
`https://doi.org/10.3390/su142114484`

[J2] 2011 - WASET International Journal of Electrical and Computer Engineering

Ankit R Patel, Ankit A Patel, Mahesh A Patel, and Dhaval R Vyas
Modeling and Simulation of Photovoltaic Based LED Lighting Systems
WASET International Journal of Electrical and Computer Engineering, UAE, vol. 5, no. 1, pp. 75-79, 2011.
`https://publications.waset.org/13125/pdf`

[J1] 2009 - International Journal of Recent Trends in Engineering

Mahesh A Patel, Ankit R Patel, Dhaval R Vyas, and Ketul M Patel
Use of PWM Techniques for Power Quality Improvement
International Journal of Recent Trends in Engineering, Finland, Vol. 1, no. 4, pp. 99-102, May 2009.
`https://www.academia.edu/5979520/Use_of_PWM_Techniques_for_Power_Quality_Improvement`

Book Chapter

[BC1] 2017 - Springer

Ankit R Patel, Rajesh S Patel, Navdeep M Singh, and Faruk S Kazi
Vitality of Robotics in Healthcare Industry : An Internet of Things (IoT) Perspective
Internet of Things and Big Data Technologies in Next Generation Healthcare, Studies in Big Data, Vol. 23, Springer International Publishing AG, pp. 91-109, 2017.
`https://doi.org/10.1007/978-3-319-49736-5_5`

Conference Papers

[C22] 2025 - ACM AutomotiveUI

Ankit R. Patel, Pnina Gershon, Azra Habibovic, Fjolle Novakazi, Sakura Akahoshi, Areen Alsaid, and Kyungjoo Cha
Shaping In-Vehicle Behaviours through Activity-Centered Design
17th International ACM Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutomotiveUI), Brisbane, Australia.
`https://doi.org/10.1145/3744335.3749141`

[C21] 2024 - ACM AutomotiveUI

James M. Rampton, Lionel P. Robert Jr., Myounghoon Jeon, Manhua Wang, Gayoung Ban, Ankit R. Patel and Dave B. Miller
Steering UX Education : Designing an Automotive UX Course
16th International ACM Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutomotiveUI), Stanford, CA, USA.
`https://doi.org/10.1145/3641308.3677397`

[C20] 2024 - IEEE SeFeT

Ankit R. Patel, Richa Ahuja, and Mariacristina Roscia
Facilitating Citizen Engagement in Smart City Mobility

IEEE 4^{th} International Conference on Sustainable Energy and Future Electric Transportation (SEFET), Hyderabad, India.
https://doi.org/10.1109/SEFET61574.2024.10717973

[C19] 2024 - Springer ICCSA

Ankit R. Patel, Ankit A. Patel, Tiziana Campisi, and Mariacristina Roscia
User-Centered Policy Interventions for Future Cities
24^{th} International Conference on Computational Science and Its Applications (ICCSA), Hanoi, Vietnam.
https://doi.org/10.1007/978-3-031-65329-2_10

[C18] 2023 - ACM AutomotiveUI

Ankit R. Patel, Philipp Wintersberger, Nathan Tenhundfeld, Dustin Souders, Tiziana C. Callari, and Tanja Stoll
1^{st} "International Workshop on Human And Technology" (i-WHAT) Theme : In the realm of ADAS
15^{th} International ACM Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutomotiveUI), Ingolstadt, Germany.
https://doi.org/10.1145/3581961.3609823

[C17] 2023 - ACM AutomotiveUI

Kristina S. Pececnik, Seul Chan Lee, Sara Hong, Martina Schuss, Hatice S. Ippoliti, Ankit R. Patel, Andreas Locken, Debargha Dey, Andreas Riener, Alexander Miring, and Myounghoon Jeon
How to Ensure Diversity and Inclusion at Conferences ? A Workshop for General Chairs, Program Committee Members, Reviewers and Authors : A Workshop for General Chairs, Program Committee Members, Reviewers and Authors
15^{th} International ACM Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutomotiveUI), Ingolstadt, Germany.
https://doi.org/10.1145/3581961.3609838

[C16] 2023 - IEEE ICRERA

Ankit R. Patel and Mariacristina Roscia
Assessing the Impact of Sociopolitical Factors on the Rollout of Electric Freight Mobility
12^{th} International Conference on Renewable Energy Research and Applications (ICRERA), Oshawa, Canada.
https://doi.org/10.1109/ICRERA59003.2023.10269373

[C15] 2023 - IEEE ISC2

Ankit R. Patel,Mariacristina Roscia, and Dean Vucinic
Legal Implications for Autonomous Vehicles Mobility in Future Smart Cities
9^{th} IEEE International Smart Cities Conference (ISC2), Bucharest, Romania.
https://doi.org/10.1109/ISC257844.2023.10293522

[C14] 2023 - Springer ICHCSC

Ankit R. Patel and Nikolina Ljepava
How Will Autonomous Vehicles Increase Ease of Life ?
2^{nd} International Conference on Human Centric Smart Computing (ICHCSC), New Delhi, India.
https://doi.org/10.1007/978-981-99-7711-6_51

[C13] 2022 - University of Cambridge, UK

Ankit R. Patel, Dhaval R. Vyas, and Rajesh S. Patel
Making Resilient Transition Towards Net-Zero Freight Transport Process Easier Through Socio-Economic, Regulatory, and Political Factors : Case Study of Mahesana City in India
9^{th} International Workshop on Sustainable Road Freight (SRF), Cambridge, UK.
https://www.csrf.ac.uk/9th-international-workshop-on-sustainable-road-freight/

[C12] 2022 - Springer ICCSA

Ankit R. Patel, Giovanni Tesoriere, and Tiziana Campisi
Users' Socio-economic Factors to Choose Electromobility for Future Smart Cities
22^{nd} International Conference on Computational Sciences and Its Applications (ICCSA), Malaga, Spain.
https://doi.org/10.1007/978-3-031-10542-5_23

[C11] 2021 - IEEE WPMC

Ankit R. Patel, Gargi Trivedi, Dhaval R. Vyas, Adriana-Simona Mihaita, and Padmanaban Sanjeevikumar
Framework for User-Centered Access to Electric Charging Facilities via Energy-Trading Blockchain
24^{th} International Symposium on Wireless Personal Multimedia Communications (WPMC), Okayama, Japan.
https://doi.org/10.1109/WPMC52694.2021.9700475

[C10] 2021 - IEEE RTSI

Ankit R Patel, Flora Ferreira, Sergio Monteiro, Ana Carolina Silva, Wolfram Erlhagen, and Estela Bicho
Prediction of Attitudes Towards Human-Centred Cognitive Vehicles Aware of Their Users' Routines and Preferences
6^{th} IEEE International Forum on Research and Technologies for Society and Industry (RTSI), Naples, Italy.
`https://doi.org/10.1109/RTSI50628.2021.9597265`

[C9] 2020 - Springer HCII

Ankit R Patel, Flora Ferreira, Sergio Monteiro, and Estela Bicho
Global Implications of Human Tendencies Towards Automated Driving and Human Driver Availability in Autonomous Vehicles
22^{nd} International Conference on Human-Computer Interaction (HCII), Copenhagen, Denmark.
`https://doi.org/10.1007/978-3-030-59987-4_13`

[C8] 2019 - IEEE/RSJ IROS

Flora Ferreira, Weronika Wojtak, Wolfram Erlhagen, Paulo Vicente, Ankit R Patel, Sergio Monteiro, and Estela Bicho
A Dynamic Neural Model for Endowing Intelligent Cars with the ability to Learn Driver Routines : Where to go, When to arrive and How long to stay there ?
2019 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) in Workshop on Cognitive Vehicles, Macau, China.
`https://cogvehicles2019.github.io/assets/proceedings/proceedings.pdf`

[C7] 2018 - IEEE IC3A

Ankit R Patel, Sahar Azadi, Mohammad Hossein Babaee, Nafiseh Mollaei, Kalpesh L Patel, and Dhirendra R Mehta
Significance of Robotics in Manufacturing, Energy, Goods and Transportation Sector in Internet of Things (IoT) Paradigm
4^{th} International Conference on Computing, Communication, Control and Automation (IC3A), Pune, India.
`https://doi.org/10.1109/ICCUBEA.2018.8697488`

[C6] 2016 - IEEE SEGE

Ankit R Patel, Dhaval R Patel, and Rahul D Sathvara
Future Smart Home Using Intelligent Electronic Devices
4^{th} IEEE International Conference on Smart Energy Grid Engineering (SEGE), Oshawa, Canada.
`https://doi.org/10.1109/SEGE.2016.7589508`

[C5] 2013 - IEEE ICBR

Dhaval R Vyas, Jyoti Ohri, and Ankit R Patel
Comparison of Conventional and Fuzzy Based Sliding Mode PID Controller for Robot Manipulator
2013 IEEE Conference on Individual and Collective Behaviors in Robotics (ICBR), Sousse, Tunisia.
`https://doi.org/10.1109/ICBR.2013.6729269`

[C4] 2012 - IEEE SoutheastCon

Ankit R Patel, Mahesh A Patel, and Dhaval R Vyas
Modeling and Analysis of Quadrotor using Sliding Mode Control
44^{th} IEEE Southeastern Symposium on System Theory (erstwhile SSST, now SoutheastCon), Jacksonville, Florida, USA.
`https://doi.org/10.1109/SSST.2012.6195140`

[C3] 2012 - Elsevier C3IT

Ankit R Patel, Mahesh A Patel, and Dhaval R Vyas
Variational Analysis and Sequential Quadratic Programming Approach for Robotics
2^{nd} International Conference on Computer, Communication, Control and Information Technology (C3IT), Hooghly, India.
`https://doi.org/10.1016/j.protcy.2012.05.102`

[C2] 2011 - IEEE RAICS

Ankit R Patel, Ankit A Patel, Mahesh A Patel, and Dhaval R Vyas
Variational Analysis Approach and its Applications to Robotics
IEEE International Conference on Recent Advances in Intelligent Computational Systems (RAICS), Trivandrum, India.
`https://doi.org/10.1109/RAICS.2011.6069301`

[C1] 2010 - IEEE ICETET

Ankit A Patel and Ankit R Patel
Modeling of Hybrid Dynamical Systems - An Approach to Solve Complex Power Electronic Circuits
3^{rd} IEEE International Conference on Emerging Trends in Engineering Technology (ICETET), Goa, India.
`https://doi.org/10.1109/ICETET.2010.60`

Professional Experience

September 2026 – To date | Senior Associate Professor, Woxsen University, India

user-centered design | user experience | human factors | research | mobility | transport

January 2025 – September 2026 | Chief Innovation Officer - Technology & Design (Mobility), BitGreen Technolabz Pvt. Ltd., India

advisor | user experience design | research | mobility | transport

November 2015 – September 2017 | Lecturer, University of Jeddah, Kingdom of Saudi Arabia

teaching-learning | electromagnetics | mobility | research

July 2015 – November 2015 | Assistant Professor, Gujarat Power Engineering & Research Institute, India

linear electronics | advisor

December 2010 – July 2015 | Assistant Professor, L. C. Institute of Technology, India

advisor | projects | events | student activities | faculty development | lab development

August 2008 – November 2010 | Lecturer, L. C. Institute of Technology, India

teaching | engineering | interaction

September 2006 – August 2008 | Lecturer, S. S. Polytechnic College, India

renewable energy | instrumentation | exam | project

February 2006 – August 2006 | Junior Engineer, Gujarat Energy Transmission Corporation Ltd. (GETCO), India

substation | maintenance | smooth operation | coordination

July 2005 – February 2006 | Adhoc Lecturer, L. C. Institute of Technology, India

teaching | basic electrical | lab operation

September 2003 – September 2004 | Graduate Engineer Trainee, Gujarat Electricity Board, India

operations | maintenance | transmission | control panel

Fellowships and Honors

2026 **Experts Evaluators and Rapporteurs**
EIT Urban Mobility (Co-funded by the European Union)
- Duration : October 2026 - To date

Public Transport | Mobility | Electrification of Transport | Health and Mobility

2026 **External Funding Evaluator Expert**
European Commission
- Duration : July 2026 - To date

Innovation | Entrepreneurship | Emerging Tech | Human Factors and Interactions

2025 **External Funding Evaluator Expert**
European Cooperation in Science and Technology (COST)
- Duration : October 2025 - To date

Mobility | Human Factors | Design Innovation | Human-Centered Design | Emerging Technologies

2025 **Asia SIGCHI HCI Summer School**
King Mongkut's University of Technology North Bangkok, Bangkok, Thailand
- Duration : June 16-20, 2025
- Bangkok ACM SIGCHI Chapter
- Recepient for international travel and accommodation grant

Qualitative Methods | Quantitative Methods | Experiment Design | Human-AI interaction | HCI

2019 **Best Poster Paper Award**
2019 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Macau
- Duration : November 4-8, 2019
- Title of the paper : Dynamic Neural Model for Endowing Intelligent Cars with the ability to Learn Driver Routines : Where to go, When to arrive and How long to stay there ?

Dynamic Neural Field Theory | Intelligent Vehicles | Routines

2018-2021 **European Regional Development Fund (ERDF)**
Bosch Car Multimedia S.A., Braga and University of Minho, Guimaraes, Portugal
- Duration : December 2018 to December 2021
- Name of the project : EasyRide - Experience is Everything
- Receipent for grant of Euro 39,744 for the entire tenure

Design | Concept | Human Factors | Cognitive Vehicles

Academic Duties

Edition :

Year : 2027

- Diversity, Equity, and Inclusion Chair at 19th International ACM Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutomotiveUI), Sept. 2027, Guangzhou, China.
  More details : `https://www.auto-ui.org/27/`
- Workshop Co-Chair at 6th Biennial African Human Computer Interaction Conference (AfriCHI), June/July 2027, Lagos, Nigeria.
  More details : `https://2027.africhi.africa/`

Year : 2026

- Session Chair for the "Automation and Perception" track at the 70th Human Factors and Ergonomics Society Annual Meeting (ASPIRE), October 2026, Reno, Nevada, USA.

More details : **https://www.hfes.org/Events/ASPIRE-International-Annual-Meeting/ASPIRE-Home**

- Diversity, Equity, and Inclusion Chair at 18th International ACM Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutomotiveUI), September 2026, Gothenburg, Sweden.
  More details : **https://www.auto-ui.org/26/**
- Workshop Chair at Symposium on Human-Computer Interaction for Work (CHIWORK), June 2026, Linz, Austria.
  More details : **https://chiwork.org/**
- Paper Chair at IEEE-VTS INNOVARail Conference, May 2026, Philadelphia, USA.
  More details : **https://2026.ieee-innovarail.org/**
- Programme Committee Member at Participatory Design Conference (PDC), June 2026, Politecnico di Milano, Italy.
  More details : **https://www.pdc2026.polimi.it/**
- Scientific Review Committee Member, 10th International Conference on Road Safety & Simulation (RSS), June 2026, Naples, Italy.
  More details : **https://www.rss2026.org/**
- Scientific Committee Member, 9th International Conference on Information Technology & Systems (ICITS), Feb. 2026, Universidad Tecnológica de Honduras, Roatán Island, Honduras.
  More details : **https://icits.me/**

Year : 2025

- Evaluator for Project Funding at European Cooperation in Science & Technology (COST).
  More details : **https://www.cost.eu**
- Technical Program Committee Member, International Conference on Machinery, Vehicle and Intelligent Control (ICMVIC), November 2025, Shenyang, China.
  More details : **https://www.icmvic.com/**
- Technical Program Committee Member, 2nd International Conference on Intelligent Driving and Smart Transportation (IDST), November 2025, Milan, Italy.
  More details : **https://www.icidst.net/**
- Accessibility Co-Chair at the 17th International ACM Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutomotiveUI), September 2025, Brisbane, Australia.
  More details : **https://www.auto-ui.org/25/**
- Organizing Committee Member, International Conference on Intelligent Transportation and Low Altitude Transportation (ITLAT), June 2025, Nangong, China.
  More details : **https://www.itlat.org/**
- Technical Program Committee Member, 2nd International Conference on Rail Transit and Transportation (ICRTT), October 2025, Nanjing, China.
  More details : **https://www.icrtt.org/**
- Technical Program Committee Member, 1Oth International Conference on Intelligent Transportation Engineering (ICITE), October 2025, Beijing, China.
  More details : **https://www.icite.org/index.html**
- Program Committee Member, 21st International Conference on Smart Technologies (EUROCON), June 2025, Gdynia, Poland.
  More details : **https://2025.ieee-eurocon.org/**
- Accessibility, Diversity, and Inclusion Chair at ACM COMPASS, July 2025, Toronto, Canada.
  More details : **https://compass.acm.org/**
- Track Co-Chair for the "Methods and Technologies for AI and Smart Cities" track at the 9th IEEE International forum on the Research and Technologies for Society and Industry (RTSI), August 2025, Gammarth, Tunisia.
  More details : **https://2025.ieee-rtsi.org/**
- International Advisory Committee, ASCE International Conference on Challenges and Innovations for Sustainable Smart Cities (CISSC), February 2025, Chandigarh, India.
  More details : **https://asceconferenceindia.org/**
- Conference Co-Chair, International Conference on Resilient Urbanism and Safe Mobility, March 2025, Bhopal, India.
  More details : **https://conf.manit.ac.in/visionzerosummit/**
- Scientific Committee Member, Design Research Society (DRS) Special Interest Group (EdSIG) LearnXDesign conference (LXD), September 2025, Aveiro, Portugal.
  More details : **https://www.lxd2025.com/**
- Scientific Committee Member, The 12th Triennial Symposium on Transportation Analysis Conference (TRISTAN), June 2025, Okinawa, Japan.
  More details : **https://tristan2025.org/**
- Associate Chair, The ACM International Conference on Supporting Group Work (GROUP), January 2025, Hilton Head Island, South Carolina, USA.
  More details : **https://group.acm.org/conferences/group25/index.php**
- Scientific Committee Member, 8th International Conference on Information Technology & Systems (ICITS), January 2025, Mexico City, Mexico.
  More details : **https://icits.me/index.php**

Year : 2024

- Scientific Committee Member, 4th International Conference on Logistics System, Traffic, and Transportation (LSTT), December 2024, Guangzhou, China.
  More details : **https://www.lstt.org/**
- Technical Program Committee Member, IEEE 9th International Conference on Intelligent Transportation Engineering (ICITE), October 2024, Xi'an, China.
  More details : **https://www.icite.org/index.html**
- Session Chair, IEEE 4th International Conference on Sustainable Energy and Future Electric transportation (SEFET), August 2024, Hyderabad, India.
  More details : **https://sefet.in/**
- Senior Advisory Board Member, International Conference of Smart and Sustainable Built Environment (SASBE), November 2024, Auckland, New Zealand.
  More details : **https://www.sdsbe2024.com/**
- Ambassador for Global Plaza Sessions, ACM Conference on Human Factors in Computing Systems (CHI), May 2024, Honolulu, Hawaii, USA.
  More details : **https://chi2024.acm.org/**
- Associate Chair, 16th International ACM Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutomotiveUI), September 2024, Stanford, USA.
  More details : **https://www.auto-ui.org/24/**
- Associate Chair, Mensch and Computer (MuC) conference, September 2024, Karlsruhe, Germany.
  More details : **https://muc2024.mensch-und-computer.de/en/**
- Technical Program Committee Member of "Sustainable Cognitive Cities" at the 1st International Conference on Smart Mobility and Logistics Ecosystems (SMiLE), September 2024, Dhahran, Saudi Arabia.
  More details : **https://events.kfupm.edu.sa/event/155/**
- Technical Program Committee Member, 20th Annual International Conference on Distributed Computing in Smart Systems and the Internet of Things (DCOSS-IoT), April 2024, Abu Dhabi, UAE.
  More details : **https://dcoss.org/**
- Associate Editor, 17th IFAC Symposium on Control in Transportation Systems (CTS), July 2024, Ayia Napa, Cyprus.
  More details : **https://ifaccts2024.wixsite.com/ifac-cts2024**
- Technical Committee Member, 13th EAI International Conference : ArtsIT, Interactivity and Game Creation (ArtsIT), November 2024, Abu Dhabi, UAE.
  More details : **https://artsit.eai-conferences.org/2024/**
- Technical Program Committee member at the 2024 IEEE World Forum on Public Safety Technology (WF-PST), May 2024, Washington D.C., USA.
  More details : **https://ieee-wfpst.org/**
- Member of the Scientific Committee, 7th International Conference on Contemporary Affairs in Architecture and Urbanism (ICCAUA), May 2024, Alanya, Turkiye.
  More details : **https://www.iccaua.com/page/home**
- Associate Chair, ACM International Conference on Interactive Media Experiences (IMX), June 2024, Stockholm, Sweden.
  More details : **https://imx.acm.org/2024/**
- Diversity, Inclusion, and Accessibility Chair at the ACM COMPASS July 2024, New Delhi, India.
  More details : **https://compass.acm.org/**
- Track chair for the session on Electric, Hybrid Electric, and Plug-in Electric Vehicle System Architectures and Control at the 2024 IEEE Transportation Electrification Conference Expo (ITEC) from June 19–21, 2024, in Chicago, IL, United States.
  More details : **https://itec-conf.com/conference**
- Scientific Committee Member, IEEE 15^{th} International Conference on Logistics and Supply Chain Management (LOGISTIQUA), Sousse, Tunisia, May 2024.
  More details : **http://www.logistiqua.com/**
- TPC Member, The First International Symposium on Intelligent Technology for Future Transportation (ITFT2024), Helsinki, Finland, 2024.
  More details : **https://itft.org/committees.html**

Year : 2023

- Associate Editor, Journal of Social Economics Research.
  More details : **https://www.conscientiabeam.com/journal/35/aimandscope.html**
- Session Chair, 5^{th} International Conference on Soft Computing and its Engineering Applications (icSoftComp2023), India, December 2023.
  More details : **https://www.charusat.ac.in/icSoftComp2023/index.php**
- TPC Member, IEEE GreenTech, Sustainability, and Net Zero Policies Practices Symposium (IEEE GTSNZ), Dubai, UAE, Decem-

ber 2023.
More details : https://gtsnz.org
- Moderator for the pre-conference keynote speech on "Smart Sensor, the Catalysts of Transformation in the Smart Grid Advancements" at the IEEE AFRICON conference.
More details : https://2023.ieee-africon.org/program/pre-conference-virtual-program/
- Lead Editor for the Special Issue on "User-Centered Advanced Driver Assistance Systems" in Journal on Multimodal User Interfaces (JMUI) with impact factor : 2.9, Q2.
More details : https://www.springer.com/journal/12193/updates/17240266
- Associate Editor for the "EAI Endorsed Transactions on Smart Cities".
More details : https://publications.eai.eu/index.php/sc/index
- Track Chair for "Consumer Cabin Comfort, Charging Behaviour, Shared Mobility, Decision Planning, and Pricing" at the 2023 iTEC INDIA Conference, Chennai, India, 2023.
More details : https://saeindia.org/events/itecindia-2023/
- Co-chair for the "Industrial Electronics, Control, Autonomous Systems, Instrumentation, Biomedical Engineering and Consumer Applications" at the 13^{th} IEEE AFRICON conference, Nairobi, Kenya, 2023.
More details : https://2023.ieee-africon.org/organising-committee/technical-program-committee/
- Programme Committee Member for the 3^{rd} Workshop on E-Science Research Leading to Negative Results (ERROR) in conjunction with IEEE e-Science conference, Limassol, Cyprus, 2023.
More details : https://error-workshop.org/
- Editorial Board Member for the Journal of Sustainable Urban Mobility.
More details : https://ipmmu.com.br/josum/about/editorialTeam
- Topic Chair for the track "Open Research Problems in Industry" at the IEEE Energy Conversion Congress and Expo (IEEE ECCE), Nashville, TN, USA, 2023.
More details : https://www.ieee-ecce.org/2023/
- Proceedings Chair for the 19^{th} IEEE International Conference on e-Science (e-Science), Limassol, Cyprus, 2023.
More details : https://www.escience-conference.org/2023/organizers
- Co-Chair for Diversity, Equity and Inclusion at the 15^{th} International ACM Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutomotiveUI), Ingolstadt, Germany, 2023.
More details : https://www.auto-ui.org/23/organizers-2/
- Associate Chair for the ACM International Conference on Interactive Media Experiences (IMX), Nantes, France, 2023.
More details : https://imx.acm.org/2023/committees/associate-chairs/
- Track chair for the session on Electric, Hybrid Electric, and Plug-in Electric Vehicle System Architectures and Control at the 2023 IEEE Transportation Electrification Conference & Expo (ITEC), Detroit, MI, USA, 2023.
More details : https://itec-conf.com/conference/committees/

Year : 2022

- Technical Program Committee Member for the International Fintech Conference (IFC), Marrakesh, Morocco, 2022.
More details : https://ifc2022.moroccofintech.org/committee/technical-program-committee/
- Editorial Advisory Board Member "Advanced AI and Internet of Health Things Technologies for Combating Pandemic" by Springer, Year 2022.
More details : https://sites.google.com/view/ioht-pandemic-book/committees?authuser=0
- Editorial Advisory Board Member "Computational Intelligence Techniques for Green, Smart Cities" by Springer, Year-2022.
More details : https://sites.google.com/view/citgreensmartcitiesbook/committees?authuser=0
- Editorial Advisory Board Member "Combating Fake News with Computational Intelligence Techniques" by Springer, Year-2022.
More details : https://sites.google.com/view/cit-fakenews-book/committees?authuser=0
- Technical Program Committee Member, International Conference on Cybersecurity, Cybercrimes, and Smart Emerging Technologies (CCSET), May 2022, Riyadh, Saudi Arabia.
More details : https://ccset2023.fedetcybex.org/committees/

Review for :
Journals

- International Journal of Human-Computer Studies, Q1
- Green Technologies and Sustainability, Q1
- Assistive Technology, Q1
- Journal of Transport and Health, Q1
- AIAA Journal of Aerospace Information Systems, Q2
- Transportation Research Part F : Traffic Psychology and Behaviour, Q1

Member :

- Association for Computing Machinery (ACM)
- Institute of Electrical & Electronics Engineers (IEEE)
- IEEE Smart Cities R&D Committee
- IEEE Smart Cities Publication Committee
- MIT Caregivers Initiatives
- Australian Mobilities Research Network
- Swedish Cognitive Science Society
- International Society for Professional Innovation Management (ISPIM), Norway
- Transportation Research Board (TRB) Committee on Vehicle-Highway Automation (ACP30)
- Transportation Research Board (TRB) Committee on Highway Capacity and Quality of Service (ACP40)
- Transportation Research Board (TRB) Committee on Human Factors of Vehicles (ACH30)
- Transportation Research Board (TRB) Committee on Traveler Behavior and Values (AEP30)
- Transportation Research Board (TRB) Committee on Transportation Demand Management (AEP60)
- Group for Research on Organizations and the Natural Environment (GRONEN)

Special Issues

- Special issue on *"Sustainable Transportation and Quality of Life"* in **Future Transportation**, Q2, Scopus indexed.
  More details are available at **`https://www.mdpi.com/journal/futuretransp/special_issues/T07TBUGUC9`**
- Special issue on *"User-Centered Advanced Driver Assistance Systems (UCADAS)"* in **Journal on Multimodal User Interfaces**, Q2, Scopus-indexed.
  More details are available at **`https://link.springer.com/journal/12193/updates/17240266`**

Organizing Sessions

- *Workshop on "Shaping In-Vehicle Behaviours through Activity-Centered Design"* at the 17th International ACM Conference on Automotive User Interfaces and Interactive Vehicular Applications (**ACM AutomotiveUI**) in Brisbane, Australia, from September 22-25, 2025.
  More details are available at **`https://www.majorankit.com/humantech-autoui2025-qut-brisbane`**
- *Workshop on "Steering UX Education : Designing an Automotive UX Course"* at the 16th International ACM Conference on Automotive User Interfaces and Interactive Vehicular Applications (**ACM AutomotiveUI**) in Stanford, USA, from September 22–25, 2024.
  More details are available at **`https://www.auto-ui.org/24/program/sunday/`**
- *"Special Session on Mobility for All (M4A)"* at the IEEE 4th International Conference on Sustainable Energy and Future Electric Transportation **(IEEE SeFeT)** in Hyderabad, India, from July 31–August 3, 2024.
  More details are available at **`https://www.majorankit.com/ieeesefet2024specialissue`**
- *Special Session on "Inclusive Electrifying Transportation"* at the 22nd IEEE Mediterranean Electrotechnical Conference (**IEEE MELECON**) in Porto, Portugal, from June 25–27, 2024.
  More details are available at **`https://www.majorankit.com/ieeemelecon2024`**
- *1st International Workshop on "Human and Technology" (Theme : In the realm of ADAS)* at the 15th International ACM Conference on Automotive User Interfaces and Interactive Vehicular Applications (**ACM AutomotiveUI**) in Ingolstadt, Germany, from September 18–21, 2023.
  More details are available at **`https://www.majorankit.com/i-what2023`**
- *Workshop on "How to Ensure Diversity and Inclusion at Conferences : A Workshop for General Chairs, Program Committee Members, Reviewers, and Authors"* at the 15th International ACM Conference on Automotive User Interfaces and Interactive Vehicular Applications (**ACM AutomotiveUI**) in Ingolstadt, Germany, from September 18–21, 2023.
  More details are available at **`https://autoui23.wixsite.com/workshop-dei`**

Invited Talks

- Keynote Speaker at 2026 International Conference on Connected and Autonomous Vehicles and Vehicle-Infrastructure Integration (CAVI), October 2026, Guiyang, China.
  More details : **`http://www.iccavi.com/`**
- Keynote Speaker at 22nd International Conference and Exhibition on Power and Telecommunications (ICEPT), October 2026, Port Harcourt, Nigeria.
  More details : **`https://www.nieee.org.ng`**
- Keynote Speaker at Autonomous e-Mobility Forum (AEMOB), September 2026, Doha, Qatar.
  More details : **`https://www.aemobforum.com/`**
- Resource Person for the Faculty Development Programme on "AI & Future Design Practices" organized by Chandigarh University, Chandigarh, India, June-July 2026.
  More details : **`https://www.cuchd.in/`**

- Expert Speaker at 39th NEP Orientation and Sensitization Programme for Faculty Induction Training, June 2026, Coimbatore, India.
  More details : **https://cit.edu.in/**
- Keynote Session Speaker at the International Network on Green Digital Innovation and Business (INDIB), January 2026, Marrakech, Morocco.
  More details : **https://indib.ma/sessions.html**

YEAR 2025

- Keynote speaker at the International Conference on Advances in Computer Science, Engineering & Technology (ICACSET), December 2025, Ranchi, India.
  More details : **https://www.amity.edu/Ranchi/ICACSET2025/default.asp**
- Keynote Speaker at the 2025 IEEE Connecting the Unconnected Europe, Middle East, and Africa Regional Summit (CTU EMEA), November 2025, Abuja, Nigeria.
  More details : **https://ctu.ieee.org/summit/2025-ctu-summit/2025-ctu-summit-emea/**
- Keynote Speaker at the EVOLVE Future Mobility Show and Conference, October 2025, Sharjah, UAE.
  More details : **https://www.evolveshow.ae/en**
- Keynote speaker at the 4th International Conference on Advancements in Smart Computing and Information Security (ASCIS), September 2025, Rajkot, India.
  More details : **https://ascisconf.org/index.php**
- Keynote speaker at the International Conference on Sustainability, Innovation, & Technology (ICSIT), August 2025, Nagpur, India.
  More details : **https://www.icsitnagpur.in/home**
- Keynote speaker at the 2025 International Conference on Intelligent Transportation and Low Altitude Transportation (ITLAT 2025), June 2025, Nantong, China.
  More details : **https://www.itlat.org/**
- Keynote speaker at the 1st International Conference on Smart Innovations, Engineering Systems & Design (SIESD), May 2025, Roorkee, India.
  More details : **https://quantumuniversity.edu.in/siesd/index.php**
- Expert talk in TransTech Talk Series at the KSCSTE National Transportation Planning and Research Center (NATPAC), May 2025, Kerala, India.
  More details : **https://natpac.kerala.gov.in/images/pdf/TSTS28.pdf**
- Keynote speaker at the International Conference on Engineering Trends in Education Systems & Sustainability (ICETESS), April 2025, Jaipur, India.
  More details : **https://jecrcconference.in/icetess2025/index.html**
- Expert talk at Central Road Research Institute (CRRI), April 2025, New Delhi, India.
  More details : **https://crridom.gov.in/**
- Keynote speaker at the 2nd Vision Zero Summit : An International Conference on Resilient Urbanism and Safe Mobility, March 2025, Bhopal, India.
  More details : **https://conf.manit.ac.in/visionzerosummit/index.php**
- Keynote speaker at the 1st International Conference on Sustainable Computing and Intelligent Systems (ICSCIS), March 2025, Jaipur, India.
  More details : **https://conference.poornima.edu.in/icscis/index.html**
- Keynote speaker at the International Conference on AI-Driven Human-Centric Solutions and Sustainable Transformations (AI-HCSST), March 2025, Gwalior, India.
  More details : **https://sites.google.com/view/ai-hcsst/home?authuser=0**
- Keynote speaker at the 4th International Conference on Perspectives on Business Management, Economics & Information Technology (PBMEIT), February 2025, Online.
  More details : **https://www.pbme.in/index.php**
- Keynote speaker at the 8th International Conference on Electronics, Materials Engineering, and Nanotechnology (IEMENTech), January-February, 2025, Kolkata, India.
  More details : **https://iementech.iem.edu.in/**
- Expert talk at the 15-Day Online Workshop on "Data Science and its Applications," January 2025, Raipur, India.
  More details : **https://nitrr.ac.in/**
- Keynote speaker at the International Conference on Sustainable Futures : Interdisciplinary Perspectives on Education and Technology 5.0 (SFIPET), January 2025, Surat, India.
  More details : **https://sfipet.vidhyadeepuni.ac.in/**

YEAR 2024

- Keynote speaker at the International Conference on Energy, Materials, and Information Technology (ICEMIT), December 2024, Ranchi, India.
  More details : **https://amity.edu/ranchi/ICMMIT2024/default.asp**
- Expert talk in a one week AICTE training and FDP learning on Recent Advancements in AI & Generative AI for Sustainable

Development at the Central Tool Room & Training Center (CTTC), November 2024, Bhubaneswar, India.
More details : **https://www.cttc.gov.in/**

- Expert talk at Silicon University, November 2024, Bhubaneswar, India.
  More details : **https://www.sit.ac.in**
- Keynote speaker at the 3rd Odisha IEEE International Conference on Electric Power Engineering, Communication, and Computing Technology (ODICON), November 2024, Bhubaneshwar, India.
  More details : **https://www.odicon.in/index.php**
- Expert talk at the Smarter Mobility Africa Summit, October 2024, Johannesburg, South Africa.
  More details : **https://wearevuka.com/mobility/sma-summit/**
- Expert talk at the Navigate Mobility Summit, September 2024, Prague, Czech Republic.
  More details : **https://navigatemobility.com/**
- Expert talk at Woxsen University, July 2024, Hyderabad, India.
  More details : **https://woxsen.edu.in/**
- Keynote speaker at the Casablanca Smart City Forum, June 2024, Casablanca, Morocco.
  More details : **https://www.casablancasmartcity.com/**
- Keynote speaker at the International Webinar on Accessibility and Inland Mobility Advancement Strategies (AIMAS) at the University of Enna Kore, April 2024, Enna, Italy.
  More details : **https://www.majorankit.com/invitedtalks**
- Expert talk in the Faculty Development Program on "Integration of IoT-Enabled Sensing Technologies and Artificial Intelligence for Advanced Healthcare, Autonomous Unmanned Vehicle and Renewable Energy : Recent Advancements and Future Trends" at VIT University, April 2024, Chennai, India.
  More details : **https://chennai.vit.ac.in/**
- Keynote speaker at the International Summit on Industrial and Manufacturing Engineering (ISIME), April 2024, Munich, Germany.
  More details : **https://www.spectrumconferences.com/2024/isime#**
- Expert talk at VIT University, March 2024, Chennai, India.
  More details : **https://chennai.vit.ac.in/**
- Keynote speaker at the International Conference on Urban Innovation, School of Planning and Architecture, March 2024, Bhopal, India.
  More details : **https://www.spabhopal.ac.in/uic24.aspx**
- Expert talk in Design for Sustainability workshop at Indian Institute of Technology (IIT), February 2024, Guwahati, India.
  More details : **http://www.sustainability-and-social-innovation.com/**

YEAR 2023

- Keynote speaker at the IEEE ITSS Workshop on Two-Wheeler Safety and Mobility Technologies, Ahmedabad University, November 2023, Ahmedabad, India.
  More details : **https://www.2wsafety.com/**

Courses Attended

- *"Workshop on Design for Sustainability"* organized by Indian Institute of Technology, Guwahati, India. February 2024.
- *"IEEE ITSS Workshop on Two-Wheeler Safety and Mobility Technologies"* organized by Ahmedabad University, Ahmedabad, India. November 2023.
- *"Short Term Training Program on Application of Advanced Statistical and Machine Learning Techniques in Transportation and Logistics"* organized by Gati Shakti Vishwavidyalaya (GSV), Vadodara, India. September 2023.
- *"Workshop on Electric Vehicles and Smart Mobility"* organized by Indian Institute of Management (IIM), Ahmedabad, India. August 2023.
- *"Short Term Course on Perspectives on How to do Research"* organized by Indian Institute of Technology (IIT), Goa, India. July 2023.
- *"Workshop on Emerging Research Topics in Engineering with theme on Smart Transport"* organized by Ahmedabad University, Ahmedabad, India. September 2022.
- *"A Short Course on Modelling Transportation Supply and Demand-Supply Interactions"* organized by Indian Institute of Technology, Madras, India. June/July 2022.
- *"Short Term Training Program on Electric Vehicles Technology"* organized by Pandit Deendayal Energy University, India. April 2022.
- *"International Workshop on Research Methodology – An Engineering Approach"* jointly organized by Bharath Institute of Higher Education and Research, India and Aurel Vlaicu University of Arad, Romania. February 2022.
- *"Summer School on AI-Enabled Mobility"* organized by Technical University of Graz, Austria. September 2020.
- *"Summer School on Neuronal Dynamics for Robotics"* organized by Ruhr University Bochum, Germany. September 2018.
- *"Spring School on Cognitive Modeling"* organized by University of Groningen, Netherlands. April 2018.

Editorial Engagements

- Editor-in-Chief, EAI Endorsed Transactions on Human-Computer Interaction
- Editorial Board Member, International Journal of Innovative Research and Scientific Studies (Q2, Scopus)
- Assistant Editor, Edelweiss Applied Science and Technology (Q3, Scopus)
- Associate Editor, Journal of Social Economics Research (Q4, Scopus)
- Assistant Editor, Journal of Sustainable Urban Mobility
- Assistant Editor, Transportation Development Research
- Associate Editor, Journal of Civil and Transportation Engineering
- Editorial Board Member, Economic Society and Humanities
- Youth Editorial Board Member, Design+