

**Dr. Sandeep B. Raskar (PhD in CSE),
Head and Associate Professor**

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, Kamothe, Navi Mumbai



Professional Qualification:

- **Ph.D in Computer Science and Engineering, 2019**
Amity University, Mumbai
- **Master of Engineering, 2011**
Pune University, Maharashtra
- **Bachelor in Computer Science and Engineering, 2006**
Aditya Engineering College, Dr. BAMU University, Maharashtra

About Me:

Currently working as a **Head and Associate Professor**, in the Department of Artificial Intelligence and Data Science, **Terna Engineering College, Navi Mumbai** and actively involved in NAAC activities. I have **contribution** in the area of **research in Ad-hoc wireless Communication, Internet of Things and Machine Learning** with more than 25 **citations**. I have developed various projects like IoT based Smart Attendance Monitoring System using Bio metric Sensor and RFID Scanner, IoT based smart Irrigation System, Leave management System in PHP, Android app developed for library management system, Android app for Community and lot many. I also have taken training programs on Network Simulator-2, Linux administration, Latex etc.. I am a **reviewer** of the peer review journals and conferences.

My **current research** deals with the **IoT and Machine learning as well as Smart home/Campus**.

Major Subjects:

- Analysis of Algorithm
- Java
- Object Oriented Programming
- Machine Learning
- Database management System

Citation Analysis:

26 citations (h-index 2 and i10-index 1) in google scholar

<https://scholar.google.com/citations?user=dXozv5UAAAAJ&hl=en>

List of Publication:

Journal Publications:

1. Paper published in IEEE xplore “Network Communication Technologies and its Role in Enabling Effective Communication” in 6th International Conference on Trends in Electronics and Informatics (ICOEI),2022.
2. Paper published in Inderscience International Journal of Mobile Network Design and Innovation “PDAU: A New Exploitation of Routing Strategy in Ad-hoc Network” in Jan 2021.
3. Paper published in International Journal of Innovative Technology and Exploring Engineering, as titled “Node mobility prediction in Wireless Adhoc Network”, [Scopus Indexed], Feb 2019.
4. Paper published in International Journal of Modeling, Simulation, and Scientific Computing, as titled “Self-Adaptive Multi-Purpose Gray Wolf Optimization for Efficient Routing of Wireless Ad-hoc Networks”, [Scopus Indexed, Free Journal], May 2018.
5. Paper published in International Journal of Computer Application, Digital Library, titled as “Link Break Prediction and Path Optimization using AODV in Wireless Ad-hoc Network”, in 2016.
6. Paper published in International Journal of Computer Application, Digital Library, titled as “AWay Ahead towards Efficient Big Data Analytics: Prime Utilization in Businesses Moving towards Cloud”, in 2016.
7. Paper published in International Journal of Computer Application, Digital Library, titled as “Wormhole Detection and Prevention Authentication based Delay per Hop Technique for Wireless Ad-hoc

Network”, in 2016.

8. Paper published in International Journal of Research Advant Technology (IJRAT) Titled as “Detection of Malevolent packet dropping in wireless Ad•Hoc Network” in June 2014.
9. Paper published in International Journal of Advance Foundation and Research in Computer (IJAFRC) titled as “Providing Security for Detection of Wormhole Attack in Wireless Network”, Volume1,Issue 6, May 2014.
10. Paper published in ACM digital Library in International Conference and workshop on Emerging Trends in Technology (ICWET 2012) TCET, Thakur College of Engineering and Technology, Mumbai, titled “Optimal Minstate Allocation for Multicast.

Conferences and Workshops Publications:

1. Paper published in IEEE Digital Xplore, titled “IoT Practices in Military Applications”, in October 2019 [Citation in May 2020].
2. Paper Published in IEEE Digital Xplore, titled “Performance Comparison on Path Establishment and Recovery algorithms in Wireless Ad•hoc Networks”, in NOV 2018.
3. Paper presented at International Conference on Intelligent Computing and Control Systems • ICCS 2018 held at VAIGAI college of Engineering, April 2018. , titled as “Emotion Mining Approach to Classify Relationship’s”.
4. Paper presented at International Conference held at Vasireddy Venkatadri Institute of Technology, Guntur (Andhra Pradesh), titled as “Nodes Mobility Prediction in Wireless Ad-hoc Network” and submitted to SCOPUS Indexed Journal, November 2018.
5. Proceeding: International Conference and workshop on Emerging Trends in Technology (ICWET 2010) TCET, Thakur College of Engineering and Technology, Mumbai, India titled as “Optimal Minstate Allocation for Multicast Communication”, 2010.
6. Paper Presentation: Paper presentation and discussion of findings presented at an International Conference organized by Information Technology (ITECH2009) Sangamner. Paper Title: “Distributed cache updating for DSR Protocol”.
7. Paper Presentation: Paper presentation and discussion of findings presented at National level technical colloquium (TECHNOEVOLUTION2K9) Sangamner, India. Paper Title: “Routing and Intrusion detection in Adhoc Network”.
8. Paper Presentation: Poster presentation and discussion of findings presented at regional Conference for Pune University (INNOVATION2008•09) Pune, India.

9. Paper Title: “Blur Identification by Multilayer Neural Network Based on Multivalued Neurons”.
10. Paper Presentation: Paper presentation and discussion of findings presented At National level technical colloquium (TECHNOEVOLUTION2K8) Sangamner, India. Paper Title: “MINDS: Intrusion Detection System”.

Research and Scholarly Contributions:

- **Ph.D. Research:** Research was on “**Self-adaptive multi-purpose Grey Wolf optimization for efficient routing of wireless ad-hoc networks**” where I am finding the best possible route from source node to the destination node in wireless network. I am also taking care of repairing the link/path before it's breaking due to independent movement of nodes.

Funding Received:

Minor Research Grant: University of Mumbai has sanctioned an amount of Rs. 30,000/- for the minor research proposal entitled as —”**Smart Mirror**”. (Ref No. APD/237/323 of 2018 dated 27th March 2018)

Software Tools:

1. Android
2. Netbeans
3. Anaconda etc.
4. Java

Software Development and Projects:

- Online Examination system in Moodle
- Online Feedback system in Moodle
- Centralized Information system in Moodle
- Online Attendance system in Moodle
- Online Central Library system(Php, Mysql)
- Transport and Hostel Management System(Php, Mysql)

- Office Software(Php, Mysql)
- Android app developed for library management system.
- IoT based Smart Attendance Monitoring System using Biometric Sensor and RfID Scanner.
- IoT based smart Irrigation System
- Leave management System in PHP
- All types of feedback in php for NBA/NAAC
- App Development in Android Platform

Professional Association:

- Indian Society of Technical Education (ISTE) - Life Member

Experience:

- Working as a Head and Associate Professor in Department of Artificial Intelligence and Data Science, Terna Engineering College, Navi Mumbai since February-2021.
- 1.5 years of teaching experience as an Associate Professor in Vasantdada patil Pratishthan's College of Engineering, Sion.
- 3 years of teaching experience as Assistant professor in Vishwaniketan's I MEET • 4 years of teaching experience as an Assistant professor in Pillai HOC College of Engineering and Technology.
- 2 years teaching experience in Tasgaonkar College of engineering, Karjat.
- 2 years teaching experience in Smt. Kashibai Navale College of Engineering, Pune.
- 2 years 6 months teaching experience in Amrutvahini College of Engineering, Sangamner.

Responsibilities Held:

- Head of Department in "Artificial Intelligence and Data Science" department.

- Institute level NAAC Coordinator.
- Head of Department in Computer Engineering at Pillai HOC College of Engineering and Technology.
- ME Co-coordinator in Computer Engineering at PHCET.
- Examination Cell In-charge in Tasgaonkar College of Engineering.
- Worked as a Co-convener in the International Conference held at PVPPCOE in Dec-2019, Mumbai. 7.
Conducted Online Quizzes in Moodle during Covid-19 lockdown period on Technical topics.
- NBA Criteria Head.
- Syllabus setter of many Subjects in Computer/IT/EXTC department

Talks/Guest Lectures Delivered:

1. Hands-on given on “Hands-on on NS2 simulator and LaTeX” 5 day workshop organized by Pillai HOC college of Engineering and Technology.
2. Hands-on given on Basics of Linux in Faculty Development Program organized by Pillai HOC college of Engineering and Technology.
3. Hands-on given on “Hands-on on NS2 simulator” 5-day workshop organized by Gharda Institute of Technology.
4. Seminar and Hands-on on “LaTeX” in 2020

SESSION CHAIR/JUDGE:

1. Session Chair for International Conference on —Emerging Trends in Technology held at Dilkap Research Institute of Engg & Mang. Studies, Neral, Karjat on 18 March 2015.

Declaration

I hereby declare that the foregoing information are correct and complete to the best of my knowledge.

Dr. Sandeep Raskar

Place: Navi Mumbai