

RADHE SHYAM SHARMA

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ACADEMIC DETAILS

- **PhD** (Electrical Engineering)
Institute: Indian Institute of Technology (IIT) Kanpur, India, 2020
(Date of Defense: June 15, 2020)
CPI: 9.0/10
- **M.Tech.** (Modelling & Simulation)
Institute: Defence Institute of Advanced Technology (DIAT) Pune, India, 2013
Percentage: 75.25
- **B.E.** (Biomedical Engineering)
Institute: Samrat Ashok Technological Institute (SATI) Vidisha, India, 2007
Percentage: 74.25

RESEARCH INTERESTS

- Visual Servoing
- Robot Learning
- Autonomous Navigation
- Multi-Robot Systems

PUBLICATIONS

1. **Radhe Shyam Sharma**, Arindam Mondal, Laxmidhar Behera, "Tracking Control of Mobile Robots in Formation in the Presence of Disturbances", *IEEE Transactions on Industrial Informatics*, 2020. [PDF](#)  [Video of the Experiments](#) 
2. **Radhe Shyam Sharma**, Ranjith Ravindranathan Nair, Pooja Agrawal, Laxmidhar Behera, K. S. Venkatesh, "Robust Hybrid Visual Servoing using Reinforcement Learning and Finite Time Adaptive FOSMC", *IEEE Systems Journal*, vol. 13, no. 3, pp. 3467–3478, 2018. [PDF](#)  [Video of the Experiments](#) 
3. **Radhe Shyam Sharma**, Santosh Shukla, Laxmidhar Behera, Venkatesh K S, "Position Based Visual Servoing of a Mobile Robot With an Automatic Extrinsic Calibration Scheme", *Robotica*, vol. 38, no. 5, pp. 831–844, 2020. [PDF](#)  [Video of the Experiments](#) 
4. **Radhe Shyam Sharma**, Santosh Shukla, Hamad Karki, Amit Shukla, Laxmidhar Behera, Venkatesh K S, "DMP Based Trajectory Tracking for a Nonholonomic Mobile Robot With Automatic Goal Adaptation and Obstacle Avoidance", *IEEE International Conference on Robotics and Automation (ICRA)*, pp. 8613-8619, 2019. [PDF](#)  [Video of the Experiments](#) 
5. Atulya Shivam Shree, **Radhe Shyam Sharma**, Laxmidhar Behera, K. S. Venkatesh, "Position Based Visual Control of The Hovering Quadcopter", International Conference on Intelligent Human Computer Interaction, pages 15–26. Springer, 2016. [PDF](#)  [Video of the Experiments](#) 

AWARDS AND FELLOWSHIPS

- Visiting research scholar at Khalifa University, Abu Dhabi, UAE, Oct - Nov 2018.
- Received Institute fellowship for doctoral studies from Indian institute of Technology (IIT) Kanpur, India, Jan 2015 - Dec 2019.
- Received GATE scholarship for Master of Technology course from MHRD, Govt of India, Aug 2011- May 2013.

PROJECTS

- A condition monitoring system with multi-agent mechanism for external non-contact smart inspection of buried oil and gas pipelines
The Petroleum Institute (PI), Khalifa University, Abu Dhabi, UAE
- Study on personal drone benefits for driver assistance
Renault Nissan Technology and Business Center India (RNTBCI), Chennai

EXPERIENCE

- Project Scientist
IIT Kanpur, India
From 16-06-2020 to Till Date
- Research Associate
IIT Kanpur, India
From 01-01-2020 to 31-05-2020
- Faculty
NIT Raipur, India
From 15-07-2013 to 31-05-2014
- Lecturer
SGSITS Indore, India
From 15-07-2008 to 11-08-2011
- Lecturer
SATI Vidisha, India
From 11-09-2007 to 14-07-2008

TUTORSHIPS

- Lab Tutor for Introduction to Electronics (ESc201A), 2018-19-II Semester, IIT Kanpur
- Theory Tutor for Introduction to Electronics (ESc201A), 2019-20-I Semester, IIT Kanpur
- Theory Tutor for Introduction to Electronics (ESc201A), 2019-20-II Semester, IIT Kanpur

TEACHING ASSISTANTSHIPS

- Signals, Systems and Networks, IIT Kanpur
- Probabilistic Mobile Robotics, IIT Kanpur
- Intelligent Systems and Control, IIT Kanpur
- Neural Networks, IIT Kanpur

PROFESSIONAL ASSOCIATIONS

- Reviewer for IEEE Systems Journal
- Reviewer for IEEE Transactions on Instrumentation and Measurement
- Reviewer for IEEE RO-MAN (Robot and Human Interactive Communication)
- Student member of IEEE
- Member of IEEE Robotics and Automation Society
- Visiting research scholar in the Department of Mechanical Engineering at Khalifa University, Abu Dhabi, UAE
- Speaker for GIAN (Global Initiative of Academic Networks) course on Selected Topics in Internet of Things, Jan 2018

POSITIONS OF RESPONSIBILITY

- Academic Mentor, Counselling Service, IIT Kanpur, 2015
- Advisor of Light & Decoration Committee in *Techno Vision*, 2008
- Convener of SAC Committee In *SU-2007*
- Co-Convener of Audio-Visual Committee In *SU-2006*

TRAININGS ATTENDED

- National workshop on “SVM in pattern recognition & its applications in biological sciences” at *NIT Raipur* (Jan 2014)
- Faculty training/orientation program at *SGSITS Indore* (Dec 2008)
- Major training on “Imaging systems” at *AFMC* (Armed Forces Medical College) *Pune* (Jun-Jul 2006)
- Minor training on “Biomedical Equipments” at *MH* (Military Hospital) *Gwalior* (Jun-Jul 2005)

TECHNICAL SKILLS

- Languages: MatLab, C++, Python
- Operating Systems: Linux, ROS (Robot Operating System)
- Others: L^AT_EX, GNU Octave, R, Mathematica, ExtendSim
- Hands-on experience with unmanned ground and aerial vehicles – Pioneer P3-DX, Guardian mobile platform, Segway RMP, Nayan, and AscTec Hummingbird.



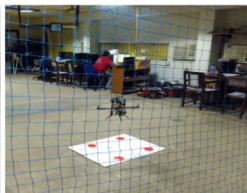
(a) Pioneer P3-DX



(b) Guardian robot



(c) Segway RMP



(d) Nayan



(e) AscTec Hummingbird

TREKKING AND CAMPING EXPERIENCE

- Gaumukh Tapovan Trek
- Dodital Trek
- NSS CAMP

INTEREST AND HOBBIES

- Adventure trekking
- Robotics
- Horse riding