

DR. ROHAN PAUL

Department of Computer Science & Engineering, IIT Delhi

rohan@cse.iitd.ac.in

EXPERIENCE

Indian Institute of Technology, Delhi

Assistant Professor

January 2020 - Present

New Delhi, India

Assistant Professor and Pankaj Gupta Faculty Fellow at the Department of Computer Science and Engineering at IIT Delhi.

Indian Institute of Technology, Delhi

Postdoctoral Fellow / Senior Project Associate

November 2012 - March 2015

Department of Computer Science and Engineering

Advisors: Prof. M. Balakrishnan and Prof. P.V.M. Rao

University of Oxford

Collaborator

November 2012 - September 2013

Department of Engineering Science

Advisors: Prof. Ingmar Posner and Prof. Paul Newman

Massachusetts Institute of Technology

Visiting Researcher

February - March 2012

Distributed Robotics Lab

Computer Science and Artificial Intelligence Laboratory

Advisors: Prof. Daniela Rus and Dr. Dan Feldman

Max Planck Institute of Biological Cybernetics

Undergraduate Research Scientist

May - July 2007

Department of Empirical Inference

Advisor: Prof. Scholkopf

RESEARCH AREAS

Robot Learning, Artificial Intelligence, Human-Robot Interaction, Semantic Mapping, Assistive Technologies, Embedded Devices, Design for Affordability.

EDUCATION

Massachusetts Insitute of Technology

Postdoctoral Associate

Robust Robotics Group

Computer Science and Artificial Intelligence Laboratory

Advisor: Prof. Nicholas Roy

2015 - 2019

University of Oxford

Doctor of Philosophy (D.Phil.)

Mobile Robotics Group

Department of Engineering Science

Supervisor: Prof. Paul Newman

2008 - 2012

MAJOR PROJECTS

Robotics Collaborative Technology Alliance (RCTA) or the US Army Research Labs (ARL), USA

Human-Robot Interaction and Intelligence for Human-Robot Teams in army scenarios.

Lead Postdoc representing MIT as an alliance member with several other academic and research institutions across the US.

Toyota Research Institute (TRI), USA

Project titled Reading the Mind with Language and Vision. Application domain autonomous cars and home service robots.

Lead Postdoc representing Robust Robotics Group. Collaborative project with the Center for Brains Minds and Machines at CSAIL, MIT.

National Science Foundation (NSF), USA

Project under National Robotics Initiative contributing towards service robots in small and medium manufacturing units.

Lead Postdoc representing Robust Robotics Group. Collaborative project with the University of Rochester and Cornell.

HONORS

Postdoctoral

Best Conference Paper, Robotics Science and Systems (RSS) Conference 2017

MIT Technology Reviews Global List of 35 Innovators under the age of 35 2015

Government of India National Award for Best Applied Research aimed at Improving the Life of Persons with Disabilities, [Leading team member] 2015

Best Conference Paper, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2013

Best Conference Paper, International Conference on Transport and Mobility for the Elderly and Disabled Persons (TRANSED) 2012

Graduate

Awarded Associate Fellowship, Skoll Center for Social Entrepreneurship, Said Business School, University of Oxford 2011

Graduate Research Prize, Royal Institute of Navigation (RIN) UK 2012

Light Senior Graduate Scholarship Award, St. Catherines College, University of Oxford 2011

Bracken Bequest Graduate Student Research Prize, Department of Engineering Science, University of Oxford 2010

Best Vision Paper Finalist, IEEE International Conference on Robotics and Automation (ICRA) 2010

Best Conference Paper, Intl. Conference on Transport and Mobility for the Elderly and Disabled Persons (TRANSED) 2010

Bracken Bequest Graduate Research Seminar First Prize, Dept. of Engineering Science 2010

Overseas Graduate Scholarship Award, St. Catherines College, University of Oxford 2009

The Rhodes Scholarship 2008

Undergraduate

National Award for Innovative Student Project, Indian National Academy of Engineering (INAE) 2008
Best Industry Relevant Thesis, Forum for Innovation and Technology Transfer (FITT), IIT Delhi 2008
Best Project with Experimental Component (BOSS Award), Indian Institute of Technology Delhi 2008
Alumni Association Award, Indian Institute of Technology Delhi 2008
Technology Development and Initiation Award for Students, Indian Institute of Technology Delhi 2006

School

National Top 1% in Indian National Physics Olympiad 2013
Young Astronomer of the Year, Nehru Planetarium Delhi 2001
National Winner, Discovery Channel Quiz, India 1999

GRANTS (CO-PI OR CORE LEAD TEAM)

Wellcome Trust, UK (Affordable Healthcare in India Initiative) 2014 - Present
Development of affordable Braille display based on Shape Memory Actuation

Wellcome Trust, UK 2014 - Present
Development Course for National and International Dissemination of the SmartCane

Center for Internet and Society (CIS), India 2013 - Present
Enhancement to NVDA Open-source Screen Reader

Dept. of Electronics, Govt. of India Center for Excellence in Tactile Graphics 2014 - Present

Wellcome Trust, UK (Affordable Healthcare in India Initiative) 2011 - 2014
SmartCane: Development of an affordable knee-above obstacle detection and warning system for the Visually Impaired

Dept. of Science and Technology, Govt. of India (Technology Intervention for Disabled and Elderly Scheme) 2013 - Present
Bus Identification System for the Visually Impaired

Dept. of Science and Technology, Govt. of India (Technology Intervention for Disabled and Elderly Scheme) 2013 - Present
Refreshable Braille Cells based on SMA-based actuation

Industrial R&D unit, IIT Delhi 2006 - 2008 Technology Development and Initiation Award for Students (TDP-IAS) Media Labs Asia, Dept. of ICT, Govt. of India 2006
Embedded Assistive Devices for the Visually Challenged

SELECTED PUBLICATIONS

Journal Publications

Efficient Grounding Abstract Spatial Concepts for Natural Language Interaction with Robot Platforms

Rohan Paul, Jacob Arkin, Derya Aksaray, Nicholas Roy and Thomas Howard.
International Journal of Robotics Research (IJRR), 2017.

Introspective Classification for Lifelong Semantic Mapping.

Hugo Grimmer, Rudolf Triebel, Rohan Paul, and Ingmar Posner
International Journal of Robotics Research (IJRR), 2015.

Seeking Out Perplexing Images for Ever Improving Navigation.

Rohan Paul and Paul Newman.
International Journal of Robotics Research (IJRR), 2013.
Special Issue on Lifelong Learning for Robotics.

The New College Data Set 2.2 km of Vision and Laser Data.

Mike Smith, Ian Baldwin, Winston Churchill, Rohan Paul and Paul Newman.
International Journal of Robotics Research (IJRR), May. 2009.

Conference Publications

Real-Time Human-Robot Communication for Manipulation Tasks in Partially Observed Environments.

Jacob Arkin, Rohan Paul, Daehyung Park, Subhro Roy, Nicholas Roy and Thomas M. Howard.
To appear in the International Symposium on Experimental Robotics (ISER), 2018.

Grounding Robot Plans from Natural Language Instructions with Incomplete World Knowledge.

Daniel Nyga, Subhro Roy, Rohan Paul, Daehyung Park, Mihai Pomarlan, Michael Beetz and Nicholas Roy.
To appear in the Conference on Robot Learning (CoRL), 2018

Grounding Natural Language Instructions with Unknown Object References using Learned Visual Attributes.

Nicole Glabinski, Rohan Paul and Nicholas Roy.
AAAI Fall Symposium on Natural Communication for Human-Robot Collaboration, 2017.

Grounding Abstract Spatial Concepts for Language Interaction with Robots.

Rohan Paul, Jacob Arkin, Nicholas Roy and Thomas Howard.
International Joint Conference on Artificial Intelligence (IJCAI), 2017.
Invited Contribution for the Sister Conference Best Paper Track

Learning Unknown Groundings for Natural Language Interaction with Mobile Robots.

Mycal Tucker, Derya Aksaray, Rohan Paul, Gregory Stein and Nicholas Roy.
International Symposium on Robotics Research (ISRR), 2017.

Temporal Grounding Graphs for Language Understanding with Accrued Visual-Linguistic Context.

Rohan Paul, Andrei Barbu, Sue Felshin, Boris Katz and Nicholas Roy.
International Joint Conference on Artificial Intelligence (IJCAI), 2017.

Efficient Grounding Abstract Spatial Concepts for Natural Language Interaction with Robot Manipulators.

Rohan Paul, Jacob Arkin, Nicholas Roy and Thomas Howard.
International Conference on Robotics Science and Systems (RSS), 2016

Best Conference Paper Award

Visual Precis Generation using Coresets.

Hugo Grimmett, Rohan Paul, Rudolf Triebel and Ingmar Posner.

IEEE International Conference on Robotics and Automation (ICRA), Hong Kong. 2014.

A Compliant Mechanism Design for Refreshable Braille Display Using Shape Memory Alloy.

Ankit Kumar, Dhruv Gupta, Pulkit Sapra, Mayank Raj, Akash Anand, Vinit Darda, Rohan Paul, M. Balakrishnan and P.V.M. Rao.

ASME International Conference on Mechatronics and Embedded Systems and Applications (MESA). 2015.

Edutactile: A Tool for Rapid Generation of Accurate Guideline-compliant Tactile Graphics for Science and Mathematics.

Mrinal Mech, Kunal Kwatra, Supriya Das, Piyush Chanana, Rohan Paul and M. Balakrishnan.

International Conference on Computers Helping People with Special Needs (ICCHP), 2014.

Design of an Affordable, Multi-modal, Interactive Braille Tutor System.

M. Balakrishnan, Rohan Paul and P. V. M. Rao.

International Conference on Blindness, Technology and Multi-modal Reading, 2014.

Dealing with Shadows: Capturing Intrinsic Scene Appearance for Image-based Outdoor Localisation.

Peter Corke, Rohan Paul, Winston Churchill and Paul Newman.

International Conference on Intelligent Robots and Systems (IROS). 2013.

Best Conference Paper Award

Knowing When We Don't Know: Introspective Classification for Mission-Critical Decision Making.

Hugo Grimmett, Rohan Paul, Rudolf Triebel and Ingmar Posner.

IEEE International Conference on Robotics and Automation (ICRA), 2013.

Driven Learning for Driving: How Introspection Improves Semantic Mapping.

Rudolf Triebel, Hugo Grimmett, Rohan Paul and Ingmar Posner.

International Symposium on Robotics Research (ISRR), 2013.

An Indoor Path-guidance and Navigation System for the Visually Impaired.

Dhruv Jain, Rohan Paul, M. Balakrishnan.

ACM SIGACCESS Conference on Computers and Accessibility (ASSETS), 2013.

Application of Shape Memory Alloy (SMA) Based Actuation for Refreshable Display of Braille

Anshul Singhal, Pranay Jain, Piyush Chanana, Dhruv Jain, Rohan Paul, M. Balakrishnan and P.V.M. Rao.

ASME International Design Engineering Technical Conferences & Computers and Information in Engineering Conference IDETC/CIE, 2013.

Parsing Outdoor Scenes from Streamed 3D Laser Data Using Online Clustering and Incremental Belief Updates.

Rudolf Triebel, Rohan Paul, Daniela Rus and Paul Newman.

American Association of Artificial Intelligence (AAAI) Conference, 2012.

How was your day? Online Visual Workspace Summaries using Incremental Clustering in Topic Space.

Rohan Paul, Daniela Rus and Paul Newman.

IEEE International Conference on Robotics and Automation (ICRA), 2012.

Semantic Categorization of Outdoor Scenes with Uncertainty Estimates using Multi-Class Gaussian Process Classification.

Rohan Paul, Rudolf Triebel, Daniela Rus and Paul Newman.

International Conference on Intelligent Robots and Systems (IROS), 2012.

Design and User Testing of an Affordable Cellphone based Indoor Navigation System for the Visually Impaired.

Dhruv Jain, Prabhav Agarwal, Kartik Maheshwari, Aman Mittal, Rohan Paul, Supriya Das, Saurabh Sanyal, Yogesh Taneja, Dipendra Manocha, M. Balakrishnan and P.V.M. Rao.

International Conference on Mobility and Transport for Elderly and Disabled Persons (TRANSED), 2012.

Best Conference Paper Award

Self-Help: Seeking Out Perplexing Images for Ever Improving Navigation

Rohan Paul and Paul Newman.

IEEE International Conference on Robotics and Automation (ICRA), 2011.

FABMAP3D: Topological Mapping with Visual and Spatial Appearance

Rohan Paul and Paul Newman.

IEEE International Conference on Robotics and Automation (ICRA), 2010.

Finalist: Best Vision Paper Award (1 of 4)

Smart cane for the visually impaired: Design and controlled field testing of an affordable obstacle detection system.

Vaibhav Singh, Rohan Paul, Dheeraj Mehra, Anuraag Gupta, Vasu Dev Sharma, Saumya Jain, Chinmay Agarwal, Ankush Garg, Sandeep Singh Gujral, M. Balakrishnan, Kolin Paul, Prof. P.V.M. Rao and Dipendra Manocha.

International Conference on Mobility and Transport for Elderly and Disabled Persons (TRANSED), 2010.

Best Conference Paper Award

THESES

Long Term Appearance-based Mapping with Vision and Laser

Mobile Robotics Group. Department of Engineering Science, University of Oxford, UK

Knee-above Obstacle Detection System and User-triggered Bus Identification System for the Visually Impaired

Department of Computer Science and Engineering, Indian Institute of Technology Delhi, India

WORKSHOPS AND SYMPOSIA

Temporal Grounding Graphs for Language Understanding with Accrued Visual-Linguistic Context.

Rohan Paul, Andrei Barbu, Sue Felshin, Boris Katz and Nicholas Roy.

1st Workshop on Language Grounding in Robotics, American Computational Linguistics (ACL) Conference, 2017.

Grounding Spatial Concepts for Autonomous Mobile Robots.

Thomas Howard, Rohan Paul, Derya Aksaray, Jacob Arkin, and Nicholas Roy.

8 th International Conference on Applied Human Factors and Ergonomics (AHFE), June 2017

Knowing When We Dont Know: Introspective Classification for Robust Decision Making in Mission-Critical Scenarios.

Rohan Paul, Hugo Grimmer, Rudolf Triebel and Ingmar Posner.

Reinforcement Learning and Decision Making (RLDM), 2013.

Introspective Active Learning for Scalable Semantic Mapping

Rudolf Triebel, Hugo Grimmer, Rohan Paul and Ingmar Posner

Workshop on Active Learning in Robotics, Robotics: Science and Systems (RSS), 2013.

Parsing Outdoor Scenes from Streamed 3D Laser Data Using Online Clustering and Incremental Belief Updates.

Rudolf Triebel, Rohan Paul and Paul Newman.

Lifelong Learning for Mobile Robotics, International Conference on Intelligent Robots and Systems (IROS), 2012.

Topological Mapping with Vision and Laser.

Rohan Paul and Paul Newman.

Annual Meeting of the Royal Institute of Navigation (RIN), UK, 2012.

Self Help: Seeking Out Perplexing Images for Ever Improving Navigation.

Rohan Paul and Paul Newman.

Workshop on Lifelong Autonomy and Exploration. International Conference on Robotics and Automation (ICRA), 2011.

Leveraging 3D Information for Topological Mapping with Vision and Laser

Rohan Paul and Paul Newman

RGB-D Workshop on 3D Perception in Robotics. European Robotics Forum, 2011.

FABMAP 3D: Topological Mapping with Vision and Laser

Rohan Paul and Paul Newman

Mapping with RGB-D Cameras. Robotics: Science and Systems (RSS) Workshop, 2010.

PATENTS

Multiple Range Obstacle Detection and Warning System

Indian Patent Application: 1354/DEL/2007 [Published]

Rohan Paul, Vaibhav Singh, Ankush Garg, Dheeraj Mehra, Dipendra Manocha, Kolin Paul, M. Balakrishnan

User Triggered Duo Module Destination Identification System

Indian Patent Application: 1355/DEL/2007 [Under review]

Rohan Paul, Vaibhav Singh, Ankush Garg, Dheeraj Mehra, Dipendra Manocha, Kolin Paul, M. Balakrishnan

A Split Grip Handle Unit with Tactile Feedback for Directed Ranging

WIPO PCT Application: PCT/IN2014/000451 [Under review]

Indian Patent Application: 388/DEL/2014 [Published]

Rohan Paul, Arun K. Venkatesan, Dheeraj Mehra, Piyush Chanana, H. Karthikeyan, K. Bhagavatheesh, V. Sashi Kumar, P. V. M. Rao, M. Balakrishnan

A Compliant Mechanism for Refreshable Braille Display using Shape Memory Alloy

Indian Patent Application: 1575/DEL/2014 [Under review]

Ankit Kumar Parsurampuriah, Dhruv Gupta, Pulkit Sapra, P. V. M. Rao, Rohan Paul, M. Balakrishnan

A Multi-modal Infotainment Device for Interactive Braille Learning

Indian Patent Application: 1729/DEL/2014 [Under review]

Ankit Kumar Parsurampuriah, Ambrish Rawat, Richa Gupta, Samarth Bahuguna, Rohan Paul, M. Balakrishnan, P. V. M. Rao, Deepak Gupta

INVITED TALKS

Invited Talk, Natural Communication for Human-Robot Collaboration, AAAI Fall Symposium, Washington D. C. 2017

Invited Talk, Robots that Understand Language, Computer Science and AI Lab Industry Affiliate Program, Cambridge 2017

Speaker as TR35 Awardee at EmTech, MIT 2015
https://www.youtube.com/watch?v=tyUF_dWbOjw

TEDx talk, Lal Bahadur Shastri Institute of Management, New Delh 2017
<https://www.youtube.com/watch?v=RpEVxMo5xcs>

Invited Talk, National Science Center Speaker Series, New Delhi

Seminar, Computer Science and Artificial Intelligence Laboratory (CSAIL), MIT 2014

Speaker and Panelist, UNDP India Social Good Summit 2014
<http://bcove.me/xeh5ifr6>
<http://bcove.me/mojuvxi7>

Invited talk, UNESCO International Conference on Role of ICTs for Persons with Disabilities 2014

Speaker, SmartCane: Release to the People Event, IIT Delhi 2014
<https://www.youtube.com/watch?v=ltwli5zsTSQ>

Invited talk, DAISY Forum of India General Body Meeting 2014

Talk, Capacity Building Session at the Christian Federation of the Blind, Bangkok, Thailand	2014
Workshop speaker, Training Session at the Hong Kong Blind Union, Hong Kong	2014
Seminar, National Innovation Showcase, Rashtrapati Bhavan (Hon'ble President of India's residential estate)	2014
Speaker, Alumni Association Event, IIT Chennai	2014
Speaker, International White Cane Day, Rotary Club of Delhi	2014
Seminar, Guru Nanak Eye Hospital, New Delhi	2014
Workshop Speaker, Jamia Milia Islamia University, New Delhi	2014
Speaker, Launch of Govt. Scheme for Subsidised Devices, Xaviers Resource Center for the Blind	2014
Speaker, Donation Event at National Association for the Blind	2014
Speaker, Introduction to Engineering Speaker Series, IIT Delhi	2014
Speaker and Panelist, International Rhodes 110th Meet, UK - Session: Fighting the World's Fight	2013
http://www.rhodeshouse.ox.ac.uk/speaker-videos	
Speaker (Socially relevant technology development), IIT Delhi	2013
Panelist and Session Speaker, Global Scholars Symposium - University of Oxford	2013
Speaker and Panelist, Career in Science and Technology, Sardar Patel Vidyalaya	2013
Speaker, D-Rev Inc., USA	2012
Accessible Science Workshop, Little Flower School for the Deaf and Blind, Chennai	2012
Speaker, Students Forum on Scientific Research, Sardar Patel Vidyalaya	2012
Seminar speaker, e-Research Center, Oxford University	2012
Invited Talk, Social Impact Group, Rhodes Trust, UK	2011
Speaker, Knowledge Center, All India Institute of Medical Sciences, New Delhi	2010

MEDIA

MIT News - Robot learns to follow orders like Alexa	2017
http://news.mit.edu/2017/robot-learns-to-follow-orders-like-alexa-0830	
Engadget - Robots learn to understand the context of what you say	
https://www.engadget.com/2017/08/30/robots-learn-contextual-commands/	
Hindustan Times - Meet 4 Indians on MIT's 23 Innovators Under 35 list	
http://www.hindustantimes.com/tech/meet-4-indians-on-mit-s-35-innovators-under-35-list/story-acldalelMhZ5KHJnzXl3tO.html	
The Rhodes Scholar Magazine - The Cane Do Attitude 2017	

The New Indian Express - An Ultrasound Cane and Able Story 2015
<http://www.newindianexpress.com/cities/chennai/An-Ultrasound-Cane-and-Able-Story/2015/03/23/article2725291.ece>

The Hindu - The Visually Impaired get a Smart Guide 2015
<http://www.thehindu.com/news/cities/chennai/visually-impaired-get-a-smart-guide/article7019756.ece>

BBC World Service Radio - The Science Hour: SmartCane for People with Visual Impairment 2014
<http://www.bbc.co.uk/programmes/p025684s>

Better India - Brilliant Invention from IIT Delhi May Just Change The Way Blind People Move Around 2014
<http://www.thebetterindia.com/11954/invention-blind-smartcane-mobility-visually-impaired-innovation/>

IndiaTimes - 8 Indian Innovations for the Common Man 2014
<http://www.indiatimes.com/lifestyle/technology/8-indian-innovations-for-the-common-man-228196.html>

The Free Press Journal - Techies put their mind to social activism 2014
<http://www.freepressjournal.in/techies-put-their-mind-to-social-activism/>

IndiaTimes, 7 IITians Who are Changing the Country for the Better 2014
<http://www.indiatimes.com/news/india/7-iitians-who-are-changing-the-country-for-the-better-227865.html>

inSight: Retina India - Celebrating Entrepreneurs - Interview with Trailblazers 2013
<http://www.retinaindia.org/insight-2/insight-jun-2013-2/>

Fortune India, Innovation Sides with the Blind 2014
<http://assistech.iitd.ernet.in/doc/media-coverage/Fortune%20India.pdf>

Civil Society - SmartCane Goes Places 2014
<http://assistech.iitd.ernet.in/article%20on%20SmartCane.pdf>

Mid Day - IIT Delhi Creates Affordable SmartCane for the Blind 2014
<http://www.mid-day.com/articles/iit-delhi-creates-affordable-smart-cane-for-the-blind/15506173>

Indian Express (Mumbai) - SmartCanes made by IIT Delhi team to help 60 Blind in the City 2014
<http://epaper.indianexpress.com/c/3275184>

International Business Times - A Smart Walking Stick That Uses Sonar To Guide Blind People 2014
<http://www.ibtimes.co.uk/smartcane-smart-walking-stick-that-uses-sonar-guide-blind-people-1453556>

The New Indian Express - Tech Guru: Rohan Paul 2014
<http://www.newindianexpress.com/lifestyle/tech/2014/11/29/Tech-Guru/article2546671.ece>

PROFESSIONAL SERVICE

Co-Organizer

Workshop: Acting and Interacting in the Real World: Challenged Robot Learning
 Neural Information Processing Systems (NIPS) 2017

Program Committee Member

International Conference on Robotics Science and Systems (RSS) 2018
International Conference on Robot Learning (CoRL) 2017
American Association for Artificial Intelligence (AAAI) Fall Symposium 2017
International Conference on Robotics Science and Systems (RSS) 2017
International Joint Conference on Artificial Intelligence (IJCAI) 2013

Reviewer

Conferences: ICRA, IROS, RSS, IJCAI, CoRL, ISRR, ISER, MESA 2008 - Present
Journals: IJRR, JFR, TRO, Autonomous Robots, Transactions on HRI

Student Volunteer

International Symposium on Experimental Robotics (ISER) 2011

Invited Member/ Founding Member

International Rhodes Scholarship Committee, Rhodes Trust, Oxford, UK 2011 - 2014
Indian Rhodes Scholarship Selection Committee, India 2013
Committee on Assistive Technology, Min. of Social Justice and Empowerment, Govt. of India 2011
Executive Committee on Technology Solutions for Persons with Blindness, Saksham Trust, India 2013
Assistive Technologies Group, IIT Delhi 2004 - Present
Center for Excellence in Tactile Graphics, IIT Delhi 2014 - Present
Rhodes Social Impact Group (RSIG), Rhodes Trust, UK 2011-2012
Board of Advisors, Atal Bihari Vajpayee Govt. Institute of Engineering and Technology, HP 2017 - Present

EXTRACURRICULAR ACTIVITIES

Training in Indian Classical Music from Gwalior Gharana

Coordinator of Indian Music Section of Delhi based professional music group Artistes Unlimited. Recorded a music collection Dharohar (2002) and an album titled En Route (2007)

Member, Amateur Astronomers Association, Nehru Planetarium, New Delhi

Table Tennis Zonal Champion

Quizzing