



Accelerate Vigyan - Karyashala  
Workshop on

# Pedestrian flow and risk modelling

16 – 20 May 2022

Venue: CCE Lecture Hall, IISc Bangalore

## Day 1: 16 May 2022, Monday

Time	Topic	Session	Speaker Name
9:00-9:30	<i>Workshop Registration</i>		
9:30-10:00	<i>Inauguration Ceremony</i>		
10:00-10:15	<i>Tea Break</i>		
10:15-11:15	Introduction to Pedestrian flow and risk modeling	Session 1	Prof. Ashish Verma, IISc Bangalore
11:15-12:15	Quality of Life impacts from pedestrianizing an urban street	Session 2	Prof. Ashish Verma, Ms. Hemanthini Allirani, Mr. Ashutosh Dumka, IISc Bangalore
12:15-13:15	Introduction to the <i>Kumbh Mela Experiment</i> : Crowd Dynamics data collection	Session 3	Prof. Ashish Verma, IISc Bangalore
13:15-14:15	<i>Lunch Break</i>		
14:15-15:15	Image processing techniques for crowd detection in Kumbh Mela	Session 4	Prof. Ashish Verma, Mr. Nipun Choubey, IISc Bangalore
15:15-16:15	Microscopic behavioral modeling of pedestrians in mass religious gatherings	Session 5	Prof. Ashish Verma, Mrs Karthika P S, IISc Bangalore
16:15-16:30	<i>Tea Break</i>		
16:30-17:30	Experimental data collection	Session 6	Prof. Ashish Verma, Mrs Karthika P S, Mr. Nipun Choubey, IISc Bangalore

## Day 2: 17 May 2022, Tuesday

Time	Topic	Session	Speaker Name
10:00-11:00	Studies on pedestrian safety and assessment of pedestrian health impacts based on three pathways	Session 7	Prof. Ashish Verma, Ms. Hemanthini Allirani, Mr. Harendra Pratap Singh, IISc Bangalore
11:00-12:00	The Social Psychology of Pedestrian Behaviour	Session 8	Dr Shalini Dixit, National Institute of Advanced Studies, Bangalore
12:00-12:15	<i>Tea Break</i>		
12:15-13:15	Studying crowd dynamics in mass religious gatherings	Session 9	Prof. Ashish Verma, Dr Gayathri Hariharan, IISc Bangalore
13:15-14:15	<i>Lunch Break</i>		
14:15-15:15	Understanding tourist behaviour in mass religious gatherings.	Session 10	Dr. Meghna Verma, Ramaiah Institute of Management
15:15-16:15	Modelling activity travel behaviour of pedestrians in mass religious gatherings	Session 11	Prof. Ashish Verma, Mr. Tarun Khandelwal, IISc Bangalore
16:15-16:30	<i>Tea Break</i>		
16:30-17:30	TBD	Session 12	Prof. K Ramchandra Rao, IISc Bangalore

## Day 3: 18 May 2022, Wednesday

Time	Topic	Session	Speaker Name
10:00-11:00	Evaluation of Pedestrians Road Crossing Behaviour at Signalized Intersection Crosswalks	Session 13	Prof. Akhilesh Kumar Maurya, IIT Guwahati
11:00-12:00	Acceptable trip distance and accessibility of facilities	Session 14	Prof. Ashish Verma, IISc Bangalore
12:00-12:15	<i>Tea Break</i>		
12:15-13:15	Tutorial session -1 (Tableau)	Session 15	Prof. Ashish Verma, Mr Saransh Sahu, IISc Bangalore
13:15-14:15	<i>Lunch Break</i>		
14:15-15:15	Noise-Induced Stop-and-Go Dynamics in Pedestrian Single-file Motion	Session 16	Prof. Andreas Schadschneider, Institute for Physics Education (University of Cologne, Germany)
15:15-16:15	Data normalization techniques	Session 17	Prof. Ashish Verma, Mr Rohit Singh Nitwal, IISc Bangalore
16:15-16:30	<i>Tea Break</i>		
16:30-17:30	Tutorial session -2 (SPSS)	Session 18	Prof. Ashish Verma, Mr Ashutosh Dumka, IISc Bangalore

## Day 4: 19 May 2022, Thursday

Time	Topic	Session	Speaker Name
10:00-11:00	Discrete Choice Analysis	Session 19	Prof. Ashish Verma, Mr Furqan Ahmed Bhat, Mr Gaurav Yash Tiwari, IISc Bangalore
11:15-12:15	Introduction to Agent Based Modelling	Session 20	Prof. Ashish Verma, Mr. Nipun Choubey, Mrs Karthika P S, IISc Bangalore
12:00-12:15	<i>Tea Break</i>		
12:15-13:15	Presentation by participants & Instructions on Controlled Experiment	Session 21	Prof. Ashish Verma, Dr. Gayathri Hariharan, Mrs Karthika P S, Mr. Nipun Choubey, IISc Bangalore
13:15-14:15	<i>Lunch Break</i>		
14:15-17:15	Controlled Experiment	Session 22 -24	
17:15-17:30	<i>Tea Break</i>		

## Day 5: 20 May 2022, Friday

Time	Topic	Session	Speaker Name
10:00-11:00	Crowd risk prediction in spiritually oriented crowds	Session 25	Prof. Ashish Verma, Dr Gayathri Hariharan, IISc Bangalore
11:00-12:00	Crowd Management Guidelines	Session 26	Prof. Ashish Verma, IISc Bangalore
12:00-12:15	<i>Tea Break</i>		
12:15-13:15	Monitoring Pedestrians in a Large Camera Network	Session 27	Dr Anirban Chakraborty IISc Bangalore
13:15-14:05	<i>Lunch Break</i>		
14:15-17:15	Tutorial 3 - Data Analysis of Controlled Experiment	Session 28 - 30	Prof. Ashish Verma, Mrs Karthika P S, Mr. Nipun Choubey, IISc Bangalore
17:05-17:30	<i>Valedictory Ceremony</i>		
17:30-17:45	<i>Tea &amp; Biscuits</i>		