



INDRAPRASTHA INSTITUTE of
INFORMATION TECHNOLOGY DELHI

Research, Innovation & Incubation Showcase

31st Jan
2020



Digital
Healthcare



Internet of
Things (IoT)



Information
Security



Human-Centered
Design (HCD)



Sustainability

ACADEMIA

INDUSTRY

GOVERNMENT

ABOUT RIISE

Research Innovation and Incubation Showcase (RIISE) aims to bring together stakeholders from government agencies, industry and academia. There will be five parallel sessions on the topical themes of Digital Health, Human Centered Design, Information Security, Internet of Things and Sustainability. Talks and panels to discuss the state-of-the-art, the way forward, and opportunities for future collaboration along with networking and poster sessions.

Friday

31st

Jan 2020

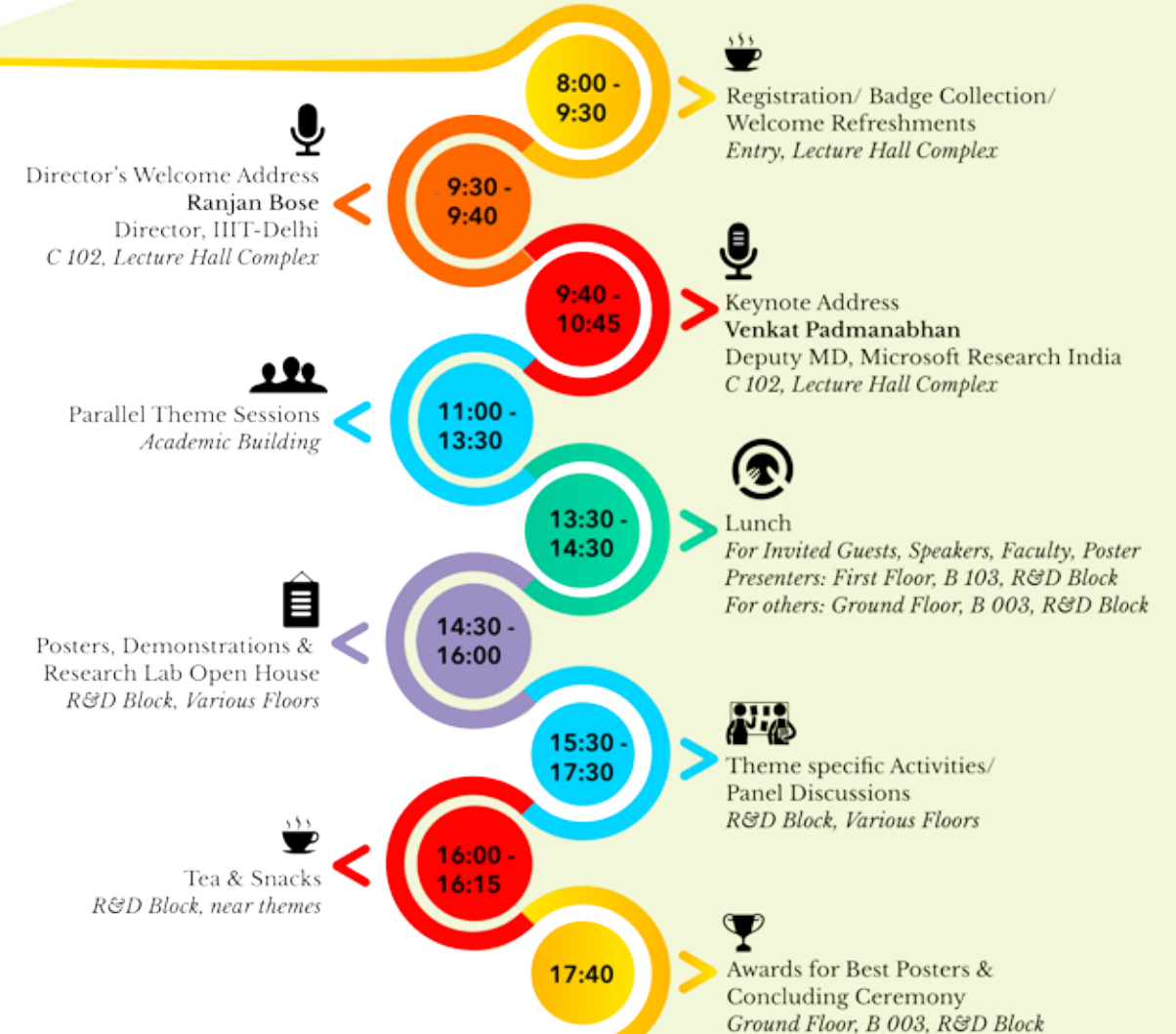


IIIT-Delhi



08:00- 17:30 hrs

SCHEDULE



KEYNOTE SPEAKER



Venkat Padmanabhan
Deputy Managing Director,
Microsoft Research India

● Bio:

Venkat Padmanabhan is Deputy Managing Director at Microsoft Research India in Bengaluru. He was previously with Microsoft Research Redmond, USA for nearly 9 years. Venkat's research interests are broadly in networked and mobile systems, and his work over the years has led to highly-cited papers and paper awards, technology transfers within Microsoft, and also industry impact. He received the Shanti Swarup Bhatnagar Prize in 2016 and the ACM SIGMOBILE Test-of-Time paper award both in 2016 and 2019. Venkat holds a B.Tech. from IIT Delhi (from where he received the Distinguished Alumnus award in 2018) and an M.S. and a Ph.D. from UC Berkeley, all in Computer Science, and has been elected a Fellow of the INAE, the IEEE, and the ACM. He is an adjunct professor at the Indian Institute of Science and was previously an affiliate faculty member at the University of Washington. He can be reached online at:

<http://research.microsoft.com/~padmanab/>.

● Title: HAMS: Harnessing AutoMobiles for Safety

Road safety is a major public health issue the world over. In the Harnessing AutoMobiles for Safety (HAMS) project at Microsoft Research India, we employ a dashboard-mounted smartphone, and the array of sensors it includes, as a virtual harness, with a view to monitoring drivers and their driving to improve safety. We focus primarily on the camera sensors of the smartphone, both the front camera, which faces the driver, and the back camera, which looks out to the front of the vehicle. We address the challenges arising from our choice of low-cost generic sensors instead of more expensive specialized sensors, the need for efficient processing on a smartphone, and demands of robust operation in uncontrolled environments. HAMS has been piloted as part of a driver training program, with promising results, and has been deployed for smartphone-based automation of driver license testing.

Digital Health

Come join us to engage with cutting-edge research at the interface of Digital Health in India. With eighty-eight percent of doctors in India using mobile-health apps or digital health technology, we are at the juncture of pervasive technology adoption in healthcare. Research is the prime driver of innovations and the Digital Health Theme will showcase research spanning lab to market.

Key areas of discussion include digital platforms for preventive health, Big-data, Omics, innovations in Artificial Intelligence and the roadmap to healthcare deployment. The day will feature keynotes, talks, poster sessions, lab visits and networking sessions to connect academia, industry, and government stakeholders for mainstreaming digital health research into practice.

11:00 - 11:30 hrs

Title: *IIITD as a Shaper of Research, Innovations & Entrepreneurship in Digital Health*

Venue: C 01, Academic Block



Tavpritesh Sethi

Assistant Professor, IIIT-Delhi

Sharmila Mande

Chief Scientist, TCS Research,
Tata Consultancy Services



11:30 - 12:00 hrs

Title: *Solving Health Challenges with a Gut full of Data*

Venue: C 01, Academic Block

12:00 - 12:15 hrs **Break**

12:15 - 12:45 hrs

Title: *mHealth applications in healthcare from medical college, Community Medicine perspective*

Venue: C 01, Academic Block



Nandini Sharma

Director, Professor & Head,
Maulana Azad Medical College

12:45 - 13:10 hrs

Title: *Bringing Precision Health to Life*

Venue: C 01, Academic Block



Saher Mehdi

Co-founder & Chief Scientist,
wellOwise

13:10-13:35 hrs

Title: *Ideas take flight*

Venue: C 01, Academic Block



Aman Iqbal

Founder, Vantage Enterprise

13:35 - 14:30 hrs **Lunch**



14:30 - 15:30 hrs
Student posters & presentations
Venue: 1st Floor, R&D Block

15:30 - 16:00 hrs
Title: *Health Futures in a Digital World*
Venue: B 105, R&D Block



Anurag Agrawal
Director, CSIR-IGIB

Vidur Mahajan
Associate Director, Mahajan
Imaging Pvt. Ltd.



16:00 - 16:25 hrs
Title: *AI in Healthcare: How it's different*
Venue: B 105, R&D Block

16:25 - 16:40 hrs Tea Break

16:40 - 17:05 hrs
Title: *The Genetics of Predictive & Preventive Health*
Venue: B 105, R&D Block



Pallab Mitra
Founding Director, QoaLife
Healthways Pvt Ltd

Rohit Gupta
Co-founder & Chief AI Officer,
BuddhiMed Technologies



17:05-17:30 hrs
Title: *Revolutionizing Healthcare Using AI - Initial Learnings & Opportunities in the Indian Context*
Venue: B 105, R&D Block



Human-Centered Design

Department of Human-Centered Design (HCD) at IIIT-Delhi focuses on innovative research in design which impacts our daily lives. We have interdisciplinary programs on B.Tech. and PhD to develop next-generation designers with robust computing skills coupled with design thinking capabilities and knowledge in diverse areas ranging from Artificial Intelligence to Animation, Deep Learning to Digital Media, Robotics to Virtual Reality, Gaming to Music, etc. We also actively engage with industries to develop industry-facing projects. Come and explore Design, the IIIT-D Way!

11:15 - 11:45 hrs

Title: *Overview of HCD Dept., its research areas & progress*

Venue: C 21, Academic Block



Pushendra Singh

Head (HCD), Professor (CSE, HCD), IIIT-Delhi

Anirudha Joshi

Professor, IDC School of Design, IIT Bombay



11:45 - 12:15 hrs

Title: *Digital health & emergent users*

Venue: C 21, Academic Block



Debjani Roy

Faculty, HCD, Srishti Institute of Art, Design & Technology

12:15 - 12:45 hrs

Title: *Social Communication- Humanizing technology for Health Behavior Change*

Venue: C 21, Academic Block



Krishna Ravi Srinivas

Consultant at Research & Information System (RIS) for developing countries, Managing Editor of Asian Biotechnology & Development Review

12:45 - 13:15 hrs

Title: *Responsible Research & Innovation in AI*

Venue: C 21, Academic Block

13:30 - 14:30 hrs **Lunch**

14:30 - 16:00 hrs

Student posters and presentations

Venue: 4th Floor, R&D Block

Research Lab Open House

Venue: Ground Floor, B 004 & 4th Floor, A-wing, R&D Block

Information Security

The cyberspace has become the 21st century battleground for wars, dissent and geopolitics. Security issues - ranging from vulnerable personal computing resources, corporate and business equipment, government and defence cyberinfrastructure, cyber dissidence, espionage and counter-espionage. The role of cybersecurity research is to explore complex problems of such varied natures and provide efficient ingenious solutions. It is an interdisciplinary field, involving cryptography, software systems, computer networking, social media, computer hardware, policy management, law and ethics.

11:15 - 11:45 hrs

Title: *'Blockchain Technology & Implications'*

Venue: C 02, Academic Block



Vinay J. Ribeiro

Associate Professor, CSE
Department, IIT Bombay

Kaarthik Sivakumar
Principal Engineer, Cisco



11:45 - 12:15 hrs

Title: *Absolute security is a myth*

Venue: C 02, Academic Block



R. K. Shyamsundar

JC Bose National Fellow &
Distinguished V. Professor, IIT Bombay

12:15 - 12:45 hrs

Title: *IoT: Security Challenges*

Venue: C 02, Academic Block

K. Gopinath
Professor, Computer Science &
Automation, IISc Bangalore



12:45 - 13:15 hrs

Title: *Privacy & Identity Management*

Venue: C 02, Academic Block

13:30 - 14:30 hrs **Lunch**

14:30 - 15:45 hrs
Student posters & presentations
Venue: 2nd Floor, R&D Block

15:45-17:00 hrs

Panel Discussion: *Conducting good security research*

Venue: A 007, R&D Block

Internet of Things (IOT)

Future IoT applications anticipate an explosion in the plethora of use-cases and services, which can not be sustained by incremental improvements on the existing CPS technologies. On the one hand, applications such as virtual and augmented reality require high-speed access links, whereas on the other, use-cases such as critical control and disaster search and rescue, need hi-fidelity ultra-reliable systems often working in lower speeds. The IoT track of the Research and Innovation Showcase at IIT Delhi aims to connect experts in academia, leaders in the industry, and policymakers in the government, involved in research, development, and roll-out of the next generation IoT systems. We invite participants to engage with this track featuring a keynote address, research talks, panel discussion, poster sessions, and networking events.

11:00 - 11:30 hrs

Title: *Efficient Association-Free WiFi for Disconnected IoT Nodes*
Venue: C 11, Academic Block



Mukulika Maity
Assistant Professor,
IIT-Delhi



L. Behera
Chair Professor, Dept. of
Electrical Engg., IIT Kanpur

11:30 - 12:15 hrs

Title: *Imitation Learning in Robotic Systems & Other Research Activities at ISCON lab at IITK*
Venue: C 11, Academic Block



Alok Mittal
Sr. Group Manager,
STMicroelectronics

12:15 - 12:50 hrs

Title: *Life Augmented with IoT & Smart Technologies*
Venue: C 11, Academic Block

12:50 - 13:00 hrs **Break**

13:00 - 13:45 hrs

Title: *Recent Advances in IoT Security*
Venue: C 11, Academic Block



Rajeev Shorey
Principal Scientist, TCS
Innovation Labs

13:45 - 14:30 hrs **Lunch**

14:30 - 15:30 hrs

Student posters & presentations
Venue: 2nd Floor, R&D Block



Subodh Gajare
Lead Architect, Cisco

15:30 - 16:20 hrs

Title: *IoT – Architecture & industry solutions*
Venue: A 006, R&D Block

16:20 - 16:30 hrs **Break**

16:30 - 17:30 hrs

Panel Discussion: *IoT in the Indian Context: Present & Future*
Panelists: Subodh Gajare (Cisco), Chander Kaher (STM), Rajeev Shorey (TCS), & Sumit Darak (IIITD); **Moderator:** Anand Srivastava (IIITD)
Venue: A 006, R&D Block

Sustainability

In pursuit of rapid economic growth and development, the human-kind created large-scale environmental stressors including population explosion, overexploitation of natural resources, hazardous pollution and climate change. Recent scientific findings warn that our planet might be nearing a tipping point of irreversible damage to the environment. IIIT-Delhi is taking its first step in this direction by hosting a thematic session on Sustainability at our annual Research Innovation and Incubation Showcase (RIISE) to seek out mitigation and adaptation mechanisms for tackling environmental risks. Eminent scholars will discuss the specific role of information and communication technologies in tackling issues of environmental sustainability.



13:30 - 14:30 hrs
Lunch

13:10 - 13:30 hrs

Concluding Theme Discussion: *All guest speakers, IIITD faculty, audience members: Technology and Sustainable Society*

Venue: C 12, Academic Block

14:30 - 16:00 hrs

Student posters and presentations

Venue: 2nd Floor, R&D Block

13:00 - 13:10 hrs

Title: *Sustainable Lifestyles Accelerator : An IIITD International Project*

Venue: C 12, Academic Block



Amrit Srinivasan

Professor, IIIT-Delhi

12:15 - 13:00 hrs

Title: *Accounting for climate variability in societal outcomes*

Venue: C 12, Academic Block



Atreyee Bhattacharya

Researcher, INSTAAR & CAS - CU
Boulder, Scripps Institution of
Oceanography, La Jolla & IIHS, Bangalore

11:50 - 12:25 hrs

Title: *Population Stabilisation and Gender: Ensuring Women's Rights & Access to Family Planning*

Venue: C 12, Academic Block



Mandira Kalra Kalaan

Associate Director, Population
Foundation of India

11:15 - 11:50 hrs

Title: *Looking past the illusion of efficiency, in pursuit of sufficiency*

Venue: C 12, Academic Block

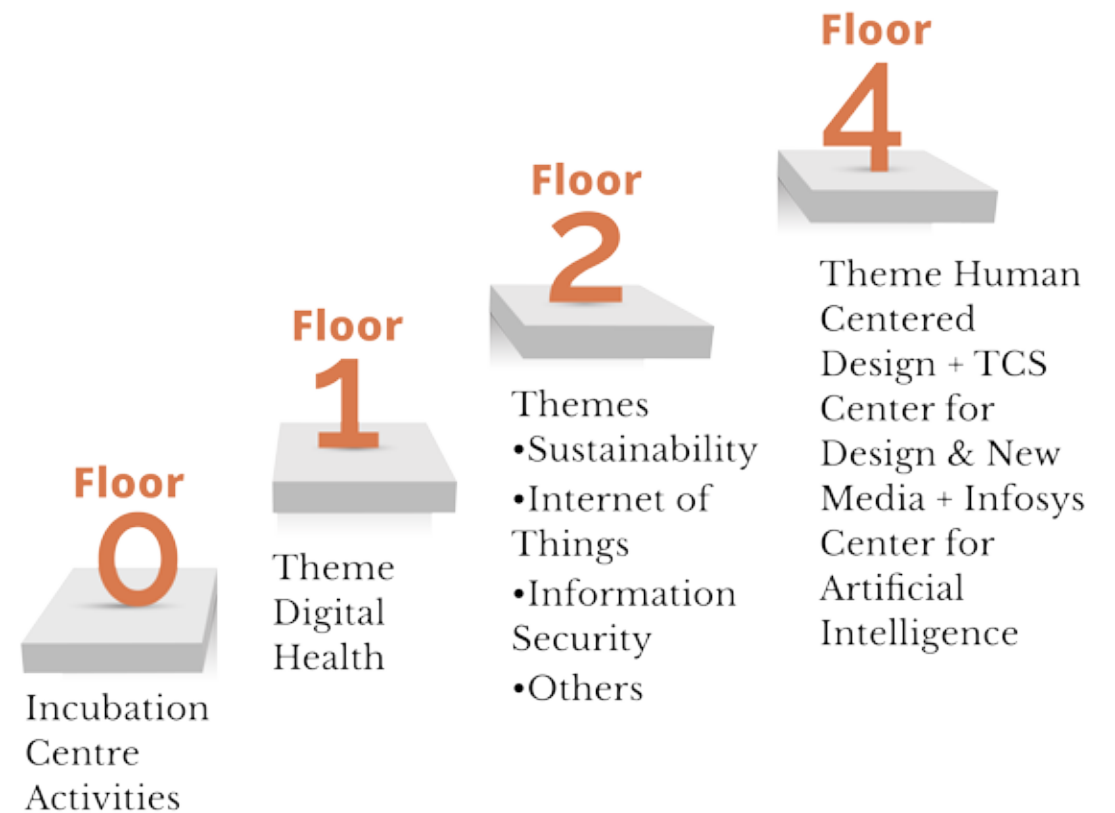


Vivek Gilani

Ashoka Fellow; MD & Executive
board member cBalance



POSTER
SESSION



(2nd Half in R&D Block, IIIT-Delhi)




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Organizing Team:

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Rashmil Mishra (*General Manager, Placements, Corporate Relations & IOP*)

Ankit Agarwal (*Web Manager*)

Jyoti Singh (*Junior Manager, Human-Centered Design*)

Navin Kumar Gaur (*Junior Manager, Industry Outreach Program*)

Richa Kedia (*Graphic Designer, richakedia.com*)