



# Research Innovation & Incubation Showcase 2022

8th Apr  
2022

● Government

● Academia

● Industry




# About RIISE

Research Innovation and Incubation ShowcasE aims to bring together the stakeholders from government agencies, industry and academia. There will be five parallel sessions on the eight topical themes of AI, Core Research, Cyber Physical System, Design, Healthcare, Lab to market + Start-ups, Sustainability, Technology as a public Good. RIISE will also feature keynotes and panels to discuss the state-of-the-art technology, the way forward, and opportunities for future collaboration along with poster sessions



**Friday**  
**8th Apr, 2022**

 IIIT-Delhi

 09:00 - 05:30 hrs

# Themes

**ARTIFICIAL  
INTELLIGENCE**



**CORE  
RESEARCH**



**CYBER PHYSICAL  
SYSTEM**



**DESIGN**



**HEALTHCARE**



**SUSTAINABILITY**



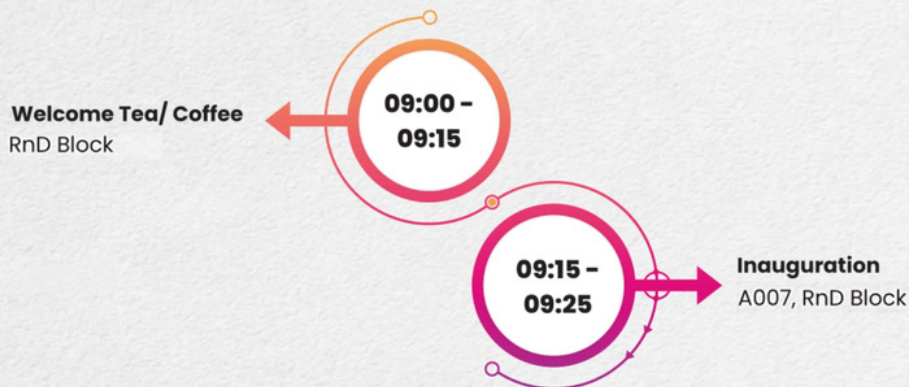
**LAB TO MARKET  
+ START-UPS**



**TECHNOLOGY  
AS A PUBLIC GOOD**



# SCHEDULE



## SPEAKER TRACKS

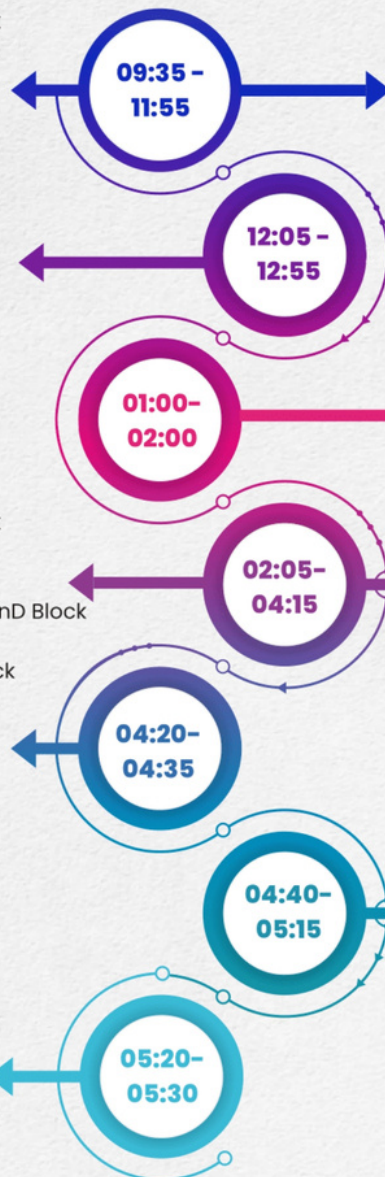
**Artificial Intelligence** - A007, RnD Block  
**Lab to Market/ Start-ups** - C01 Old Academic Building  
**Sustainability** - A006, RnD Block  
**Healthcare** - A106, RnD Block  
**Design** - B105, RnD Block

**KEYNOTE ADDRESS -**  
C101, Seminar Block

**Artificial Intelligence** - A007, RnD Block  
**Lab to Market/ Start-ups** - C01 Old Academic Building  
**Technology as a Public Good** - A006, RnD Block  
**Core Research** - A106, RnD Block  
**Cyberphysical Systems** - B105, RnD Block

**High Tea** - Seminar Block

**Awards and Closing Ceremony**  
-C101, Seminar Block



## POSTERS TRACKS

**Artificial Intelligence** - 5th Floor, RnD Block  
**Lab to Market/ Start-ups** - Ground Floor, Old Academic Building  
**Technology as a Public Good** - B-Wing, 6th Floor, RnD Block  
**Core Research** - B-Wing, 3rd and 4th Floor, RnD Block  
**Cyberphysical Systems** - A-Wing, 6th Floor, RnD Block

**Lunch**

**Artificial Intelligence** - 5th Floor, RnD Block  
**Lab to Market/ Start-ups** - Ground Floor, Old Academic Building  
**Sustainability** - 2nd Floor, RnD Block  
**Healthcare** - 3rd Floor, RnD Block  
**Design** - A-wing, 4th Floor, RnD Block

**PANEL DISCUSSION - WOMEN IN ENGINEERING -**  
C101, Seminar Block

## KEYNOTE SPEAKER



### **Mr. Sachindra Joshi**

Lead AI,  
IBM research

#### **BIO:**

Sachindra Joshi is a distinguished Engineer and manages the AI for Interaction department at IBM India Research Lab that focuses on research in natural language processing, conversation modeling, process mining and automation. He also leads the conversation AI effort across IBM research and work closely with different labs and business divisions to create state-of-the-art conversation technologies and integrate them with IBM products and services. He has over 70 research papers in top journals and conferences. He also has over 50 patents to his name. Prior to joining IBM research, Sachindra completed Masters in Computer Science and Engineering from Indian Institute of Technology, Bombay in year 2000.

# PANEL DISCUSSION

# WOMEN

# IN ENGINEERING

## PANELISTS

### Prof. Ram Gopal Rao

Professor, Deptt. of EE,  
IIT Delhi



### Dr. Lipika Dey

Chief Scientist, Tata  
Consultancy Service  
(TCS) Research



### Dr. Seema Khanna

Deputy Director  
General, National  
Informatics Centre



### Dr. Andreia Cathelin

Technology R&D dellow  
At STMicroelectronics





# ARTIFICIAL INTELLIGENCE

Artificial intelligence is a rapidly emerging field which seeks to simulate human-like intelligence, rational thinking and problem-solving in machines. This field has seen major breakthroughs recently owing to easy availability of data and explosion in parallel computing power. Recent years have witnessed stronger synergy and collaborations between academia and industry towards advancements in AI. At RIISE, we present talks and interactions with the masterminds from industry and academia who are, in their own way, revolutionizing AI for the future.





**MR. ABHIJITH  
NEERKAJE**

**Sr. Director Data Sciences,  
Target**

**Talk Title:** Scalable AI in the  
Retail Context



**DR. GAUTAM  
SHROFF**

**SVP & Head, TCS Research**

**Talk Title:** Applied/Fundamental  
AI: Synergy or Dichotomy?



**DR. GARGI  
DASGUPTA**

**GTO Executive Lead, IBM  
Research**

**Talk Title:** AI & its application  
to the Future of Automated  
Operations



**DR. SIDHANT  
GUPTA**

**Director, Microsoft**

**Talk Title:** Microsoft  
Premonition: Scalable  
Monitoring of the Biome.



**DR. HEMANT  
MISRA**

**Vice President, Head of  
Applied Research, Swiggy**

**Talk Title:** AI in Startups: A  
peek into Swiggy's journey  
and lessons learnt



**DR. GIRISH  
CHOWDHARY**

**Associate Professor,  
University of Illinois at  
Urbana-Champaign, USA**

**Talk Title:** The Robots are  
Coming - to your Farm!



# CORE RESEARCH

The Core Research theme aims to highlight the foundational aspects of Computer Science and Information Technology. It encompasses several classical areas in CS and IT including but not limited to Theoretical Computer Science, Fundamentals of Systems, Programming Languages, Databases, Networks and Communication and Machine Learning. The theme would have three keynote addresses by experts from both academia and the industrial labs. The poster session would showcase work done by budding researchers working in the classical areas of CS and IT.



**PRATEEK  
JAIN**

**Sr. Research Scientist,  
Google AI**

**Talk Title:** Simplicity Bias in  
Deep Learning + Research  
opportunities at Google  
Research India



**SUBRATA  
MITRA**

**Research Scientist, Adobe  
Research**

**Talk Title:** Towards Efficient  
System Design with  
Approximations & AI



**ARPITA  
PATRA**

**Associate Professor, IISc  
Bangalore**

**Talk Title:** Secure Multi-party  
Computation



# CYBER PHYSICAL SYSTEM

We are in the age of 5G connectivity with 6G knocking at our doorsteps. Future wireless networks will be characterized by extreme bandwidth, throughput above 6 Gbps, above 99.99% reliability, energy efficiency at least 10000 times that of 4G, and capacities to support above 100 Tbps per square kilometers. The resulting cyber-physical systems will support autonomous driving, smart factories, disaster relief, remote surgery, agricultural IoT, and augmented reality. Researchers and practitioners from industry and academia will meet and discuss the latest advances in cyber-physical systems.



**PROF. ANDREW  
LORD**

**Distinguished Engineer,  
British Telecom, United  
Kingdom**

**Talk Title:** TBA



**DR. ARUNDATHI  
MISRA**

**Group Director of Advanced  
Microwave & Hyperspectral  
Techniques Development Group,  
Space Applications Centre, ISRO,  
India**

**Talk Title:** Microwave Remote Sensing  
techniques and applications



**DR. ROBERTO  
SABELLA**

**Head of the Optical  
Systems, Department of  
Ericsson Research, Italy**

**Talk Title:** Cyber-Physical  
System for Industry 4.0



**DR. SUBHRA  
KANTI DAS**

**Head of RISC-V  
Developments, Thales India  
Pvt Ltd.**

**Talk Title:** Open Hardware -  
The Road Ahead



**GIULIO  
BOTTARI**

**Master researcher,  
Department of Ericsson  
Research, Italy**

**Talk Title:** Cyber-Physical  
System for Industry 4.0



# 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!



**VIVEK  
SESHADRI**

**Principal Researcher,  
Microsoft Research India**

**Talk Title:** Digital Work in  
Low-resource Settings



**DR. SANDEEP  
ATHAVALE**

**Chief Mentor iON  
EduGameLab, TCS**

**Talk Title:** Contextual Game  
Design



**SUMITA  
SHARMA**

**Postdoc Researcher,  
University of Oulu, Finland**

**Talk Title:** Participatory AI  
with Children: in pursuit of  
fair and inclusive technology  
futures



# HEALTHCARE

The Healthcare theme of RIISE 2022 will bring together leading experts in public health and technology to re-imagine the delivery and access to quality Healthcare. Join us to learn more about cutting-edge research and innovations in Data Science, Artificial Intelligence, sensors, and IoT for making Healthcare accessible, equitable, and accountable for all in the Healthcare theme of RIISE 2022.





**PROF. RAKHI  
DANDONA**

**Professor, Public Health  
Foundation of India**

**Talk Title:** How mortality  
shapes health care:  
innovations in data science  
and machine learning



**DR. SOMA S.  
DHAVALA**

**Principal ML Scientist,  
Wadhvani AI**

**Talk Title:** MURAD: A Multi-Lingual  
Real-Time Automatic Disease  
Surveillance System



**MS. SUNITA  
NADHAMUNI**

**Global Head of Social  
Innovation, Dell  
Technologies**

**Talk Title:** Digital  
Transformation of a  
Nation-scale Public Health  
Program



**DR. VIBHU  
AGRAWAL**

**Senior Director, Data  
Science, Medidata, San  
Francisco**

**Talk Title:** Leveraging  
historical clinical trials data  
for safer oncology  
therapeutics



# SUSTAINABILITY

This session will focus on the relevance of information technology development for Sustainable Development Goals of the United Nations. Leading experts from academia, industry and think-tanks will share their contributions in advancing the intersection of technology and public policy.



**PROF. B.K.  
PANIGRAHI**

**Professor, IIT Delhi**

**Talk Title:** EV Charging  
Infrastructure



**RONAK  
SUTARIA**

**Founder, Respires Living  
Sciences, urbansciencesIN**

**Talk Title:** Improving Air Quality  
in 133 'Non Attainment' Cities &  
7000+ Rural Blocks of India with  
Low-Cost Sensors



**KARTHIK  
GANESAN**

**Fellow & Director, Research  
Coordination, Council on  
Energy, Environment & Water**

**Talk Title:** Data-based  
Approaches for Sustainability



# LAB TO MARKET + START-UPS

IIITD Innovation and Incubation Center offers a bouquet of support in fostering and promoting Entrepreneurial and Startup Ecosystem. The Center supports an Entrepreneur at an idea stage to take it up higher to a scale up stage with financial support, technical mentorship, business guidance and overall development. The sessions will have successful Startups from diverse backgrounds in Technology domain focussing on ideation stage, scaleup stage, investors expectations from tech startups and Entrepreneurs who impacted life of common man.



**GAURAV  
AGARWAL**

**Co-Founder, 1mg**

**Talk Title:** Positioning and Growth Strategy for Startup



**ANANT  
SHARMA**

**Co-Founder Tweek Labs**

**Talk Title:** Journey of Idea: From Lab to SharkTank



**DEEPAK  
SOLANKI**

**Founder, Velmenni**

**Talk Title:** Mantra for commercializing deep tech ventures



**ANUPAM  
SARONWALA**

**Director, IIITD-IC**

**Talk Title:** Startup From Investor's Eye



**SWATI  
TIWARI**

**Founder, Arcturus Business Solutions**

**Talk Title:** Entrepreneurship - Finding Customers and Continuous Innovation



**SAPNA  
YADAV**

**Head, Department of Education Technology at SCERT and Project Director, Entrepreneurship Mindset Curriculum**

**Talk Title:** Story Behind Business Blaster- World Biggest Entrepreneurship Event



# TECHNOLOGY AS A PUBLIC GOOD

This session will highlight the proprietary aspect of technology and will encourage imagining technology as a public good. As a public good, technology should enable communities as a whole to flourish with the gains of technological advancement shared widely. We foreground questions of rights, ethics, access, transparency and policy in relation to digital technologies. In this session, we present talks with the masterminds from industry, academia and leading think-tanks, who are, in their own ways, working to make technology a public good.



**OSAMA  
MANZAR**

**Founder & Director, Digital  
Empowerment Foundation**

**Talk Title:** Digital Dichotomy  
of Unconnected



**APAR  
GUPTA**

**Executive Director, Internet  
Freedom Foundation**

**Talk Title:** Digitisation as  
challenger to India's  
constitutional framework



**DR. SAMBUDDHO  
CHAKRAVARTY**

**Assistant Professor,  
IIIT-Delhi**

**Talk Title:** How the Internet  
Iron Curtain Works and What  
Are We Doing About It



**DR. URVASHI  
ANEJA**

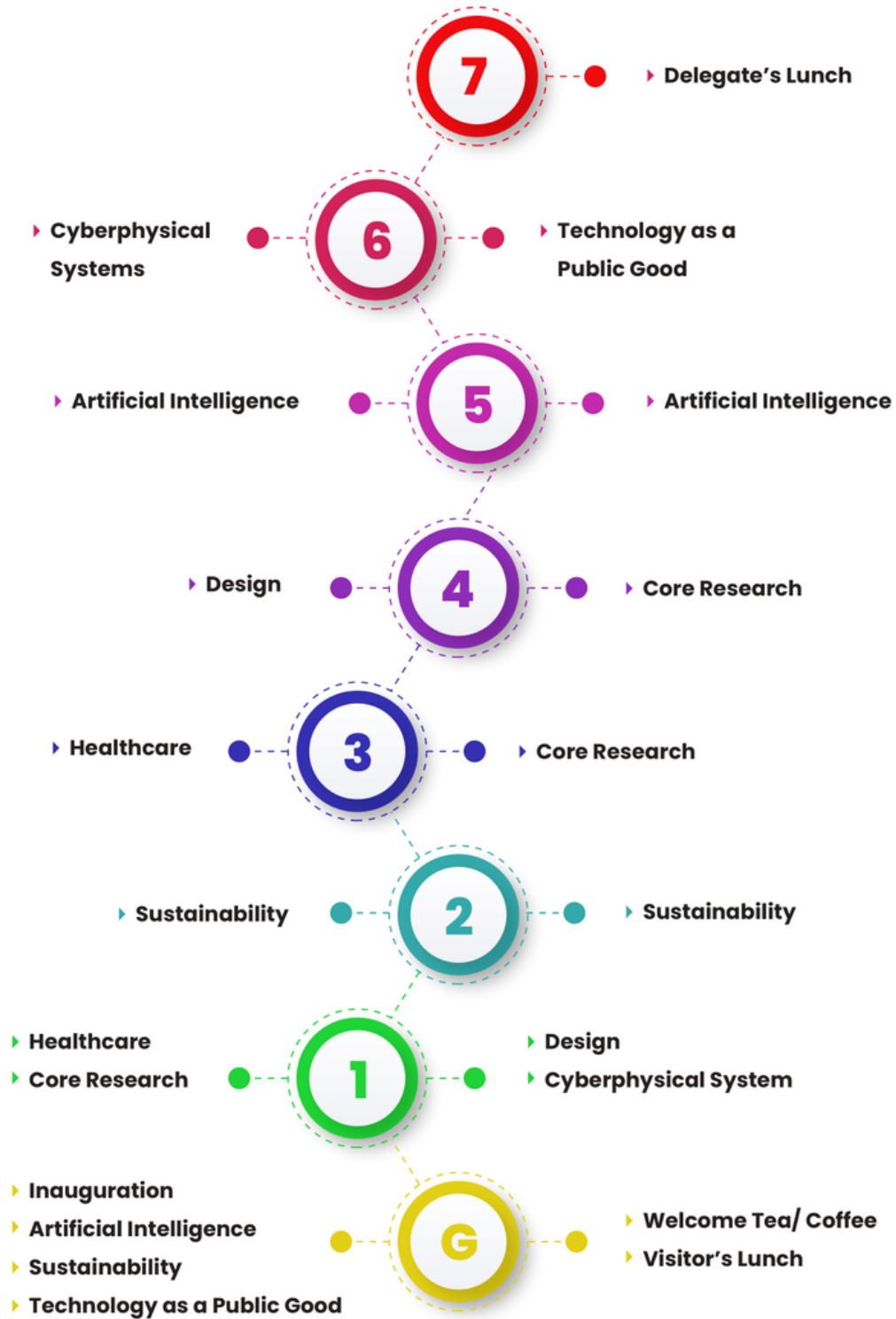
**Founder & Director, Digital  
Futures Lab**

**Talk Title:** Rethinking AI,  
Innovation & Governance

# POSTER SESSION

**A WING**

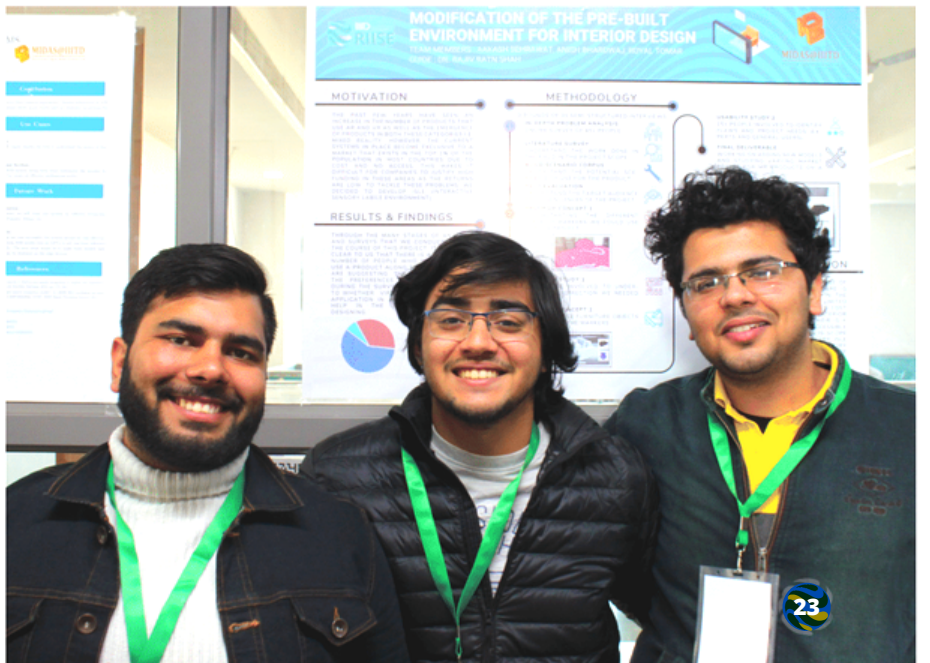
**B WING**



Poster Tracks

Speaker Tracks











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