aspiringminds

India Science Festival

Celebrating Science. Opening Minds.

11-12 JANUARY 2020 | **IISER, PUNE**

The **Foundation for Advancing Science and Technology India (FAST India)** is a non-profit institution of excellence working to enable the transformation of India's science and technology ecosystem through research and policy, government support, institutional strengthening, corporate sector engagement, and science communication.

The **India Science Festival (ISF**) is FAST India's flagship science communication event, which has emerged as the country's largest non-governmental platform for public celebration of science & technology!

ISF aims to make science accessible, engaging and fun for all!

aspiringminds
AI-powered Talent Evaluation

India Science Festival 2020

Celebrating Science. Opening Minds

11-12 January 2020 | IISER, PUNE

AI

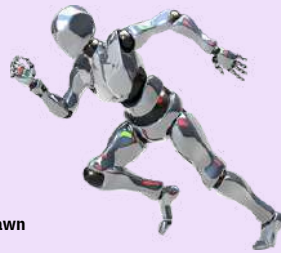### What machines can and cannot see: Progress over forty years

Speaker

Narendra Ahuja
ITRA

📅 Jan 11, 2020

🕐 10:30- 11:15 AM

📍 Hodgin Huxley Lawn IISER Pune

Talks 📢

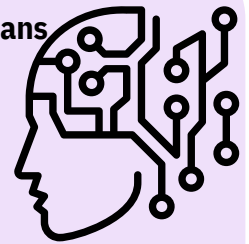### Has the terminator arrives- AI becomes smarter than humans

Speaker

Subbarao Kambhampati
IASU

📅 Jan 11, 2020

🕐 11:15 AM- 12:00 PM

📍 Turing Lawn IISER Pune

Talks 📢

Teaching machines to read and write our language
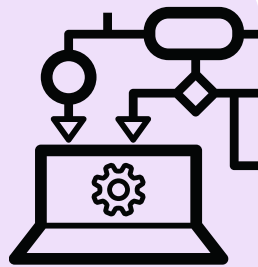
Speaker

Sunita Sarawgi
IITB

📅 Jan 11, 2020

🕐 12:00 PM- 12:55 PM

📍 CV Raman Audi IISER Pune

Talks 📢

Humans are not alone, AI discriminates too: Controlling bias in AI

Speaker

Nisheeth Vishnoi
Yale

📅 Jan 11, 2020

🕐 12:55 PM- 1:40 PM

📍 Hodgin Huxley Lawn IISER Pune

Talks 📢

Extended Intelligence: Coupling human and Artificial Intelligence

Speaker

Arnav Kapur
MIT

📅 Jan 11, 2020

🕐 2:45 PM- 3:45 PM

📍 Turing Lawn IISER Pune

Talks 📢

Can AI democratize healthcare innovation: Learning from Nepal
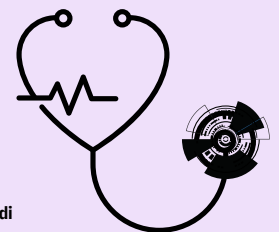
Speaker

Bishesh Khanai
NAAMI

📅 Jan 11, 2020

🕐 3:45 PM- 4:30 PM

📍 CV Raman Audi IISER Pune

Talks 📢

Can AI do more than adding dog ears to selfies- like fighting social justice and improving society?

Speaker

Miling Tambe
Harvard

📅 Jan 11, 2020

🕐 4:30 PM- 5:15 PM

📍 Turing Lawn IISER Pune

Talks 📢

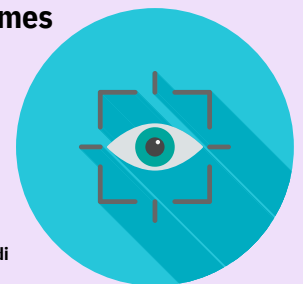### GPUs- from computer games to computer vision

Speaker

P J Narayanan
IIITH

📅 Jan 12, 2020

🕐 11:45 AM- 12:30 PM

📍 CV Raman Audi IISER Pune

Talks 📢

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AI-powered Talent Evaluation

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AI

Google AI research: Global impact and opportunity for India

Speaker

Manish Gupta
Google Research India

Google AI

📅 Jan 12, 2020

📍 Turing Lawn
IISER Pune

🕐 12:30 PM- 1:15 PM

Talks 📢

AI to make lives better, Agriculture, Food management and more

Speaker

Gargi Dasgupta
IBM
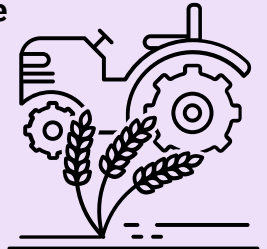
📅 Jan 12, 2020

📍 CV Raman Audi
IISER Pune

🕐 1:15 PM- 2:10 PM

Talks 📢

Solving problems using AI: Going beyond deep learning

Speaker

Varun Aggarwal
Aspiring Minds
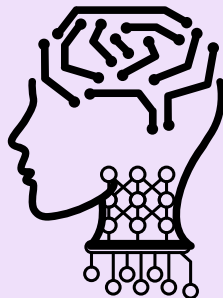
📅 Jan 11, 2020

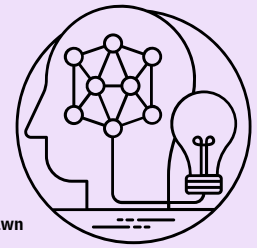📍 Hodgin Huxley Lawn
IISER Pune

🕐 3:35 PM- 4:35 PM

Talks 📢

Is deep learning the nirvana of AI?

Panelists
Milind Tambe, Payal Arora, Arnav Kapur

Moderator
Manish Gupta

📅 Jan 12, 2020

📍 Hodgin Huxley Lawn
IISER Pune

🕐 4:35 PM- 5:20 PM

Panel Discussions 💬

Brain Science

Outside-In: bringing the world into our brains

Speaker

Shubha Tole
TIFR

📅 Jan 11, 2020

📍 Turing Lawn
IISER Pune

🕐 10:30 AM- 11:15 AM

Talks 📢

How do we form our memories and how do we know where to look for them?

Speaker

US Bhalla
NCBS

📅 Jan 11, 2020

📍 Hodgin Huxley Lawn
IISER Pune

🕐 11:45 AM- 12:30 PM

Talks 📢

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Brain Science

Embodied brains and disembodied minds: A neurological perspective or human nature

Speaker

VS Ramachandran
UCSD

📅 Jan 11, 2020

📍 Turing Lawn IISER Pune

🕐 12:00 PM- 12:55 PM

Talks 📢

Do our brains use the same principles as deep learning?

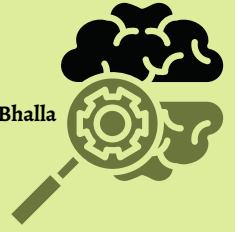**Panelists**

Rajesh PN Rao, Subbarao Kambhampato, US Bhalla

Moderator

Venkatesh Murthy

📅 Jan 11, 2020

📍 Hodgin Huxley Lawn IISER Pune

🕐 2:45 PM- 3:45 PM

Panel Discussions 💬

How insects make smart decisions using past experience and internal models of the world

Speaker

Vivek Jayaraman
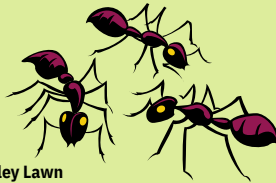HHMI

📅 Jan 12, 2020

📍 Hodgin Huxley Lawn IISER Pune

🕐 12:30 PM- 1:15 PM

Talks 📢

Brain 2.0 - Connecting human brains and machines

Speaker

Rajesh PN Rao
UWash

📅 Jan 12, 2020

📍 Turing Lawn IISER Pune

🕐 4:35 PM- 5:20 PM

Talks 📢

Core Science

Making the world around us Intelligent- The internet of things

Speaker

Sanjay Sharma
MIT

📅 Jan 11, 2020

📍 Turing Lawn IISER Pune

🕐 11:45 AM- 12:30 PM
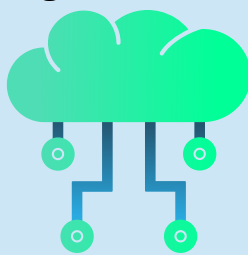
Talks 📢

Genomics Quirks: How our genes make or break us?

Speaker

Ramesh Hariharan
Strand Life Sciences

📅 Jan 11, 2020
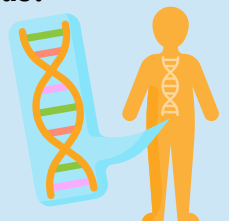
📍 Hodgin Huxley Lawn IISER Pune

🕐 12:00 PM- 12:55 PM

Talks 📢

![India Science Festival logo]

India Science Festival 2020

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Core Science

Can we map what our universe hides?

Speaker

Priyamvada Natarajan
Yale

📅 Jan 11, 2020

🕐 12:55 PM- 1:40 PM

📍 Turing Lawn
IISER Pune

Talks 📢

Blood on a chip:
Technology for diagnostic tests at doctor's offices

Speaker

Dhanajay Dendukuri
Achira Labs

📅 Jan 11, 2020

🕐 2:45 PM- 3:45 PM

📍 CV Raman Audi
IISER Pune

Talks 📢

Can science tell us how we are?

Speaker

Mani Bhaumik
UCLA

📅 Jan 11, 2020

🕐 3:45 PM- 4:30 PM

📍 Turing Lawn
IISER Pune

Talks 📢

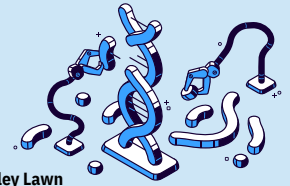### Should we shoot the world's deadliest messengers or just disarm them through genetic engineering?

Speaker

Suresh Subramani

📅 Jan 12, 2020

🕐 11:45 AM- 12:30 PM

📍 Hodgin Huxley Lawn
IISER Pune

Talks 📢

Do India public health issues differ from the world- how to prevent , diagnose and cure?

Speaker

Gagandeep Kang
THSTI

📅 Jan 12, 2020

🕐 12:30 PM- 1:15 PM

📍 CV Raman Audi
IISER Pune

Talks 📢

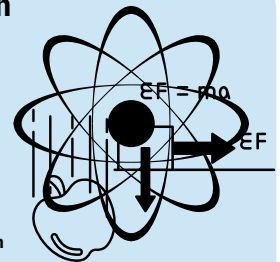### Stephan Hawking's legacy in fundamental physics

Speaker

Rajesh Gopakumar
ICTS- TIFR

📅 Jan 12, 2020

🕐 1:15 PM- 2:10 PM

📍 Hodgin Huxley Lawn
IISER Pune

Talks 📢

Do our brains use the same principles as deep learning?

Panelists
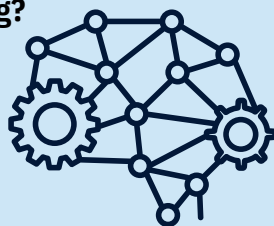Ramarao Dhamela, Sanjeev Galande

Moderator
Shambhavi Naik

📅 Jan 12, 2020

🕐 1:15 PM- 2:10 PM

📍 Turing Lawn
IISER Pune

Panel Discussions 💬

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Art and History

Ajanta- A pigment of glorious imagination

Speaker

S. Swaminathan
Tamil Heritage Trust

📅 Jan 11, 2020

📍 CV Raman Audi IISER Pune

🕐 10:30- 11:15 AM

Talks 📢

Speculative Fiction: Imagining the future

Speaker

Tashan Mehta
Author

📅 Jan 11, 2020

📍 Feynman Theatre IISER Pune

🕐 12:00 PM- 12:55 PM

Talks 📢

Elephant's head for Ganesh-
did ancient Indians know how to transplant organs?

Panelists

Rajesh PN Rao, VS Ramachandran, R. Gopu, Shubha Tole

Moderator

Saurabh

📅 Jan 11, 2020
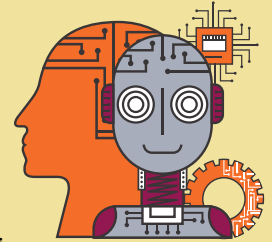
📍 Feynman Theatre IISER Pune

🕐 4:30 PM- 5:15 PM

Panel Discussions 💬

AI and Art: Human Machine continuum

Speaker

Harshit Agarwal
MIT

📅 Jan 11, 2020

📍 CV Raman Audi IISER Pune

🕐 4:30 PM- 5:15 PM

Talks 📢

Mission Mangal: Why women are not from Venus?

Speaker

Minnie Vaid

📅 Jan 12, 2020

📍 CV Raman Audi IISER Pune

🕐 11:45 AM- 12:30 PM

Interview 👥

Ying- Yong: Science of art, art of science

Panelists

Harshit Agarwal, Pawan Sinha, Vijayendra Mohanty, Tashan

Moderator

Jahnvi

📅 Jan 12, 2020

📍 Feynman Theatre IISER Pune

🕐 12:30 PM- 1:15 PM

Panel Discussions 💬

M Tamasoma Jyotisha Gamaya: The men who knew zero to infinity

Speaker

R Gopu,
THT Badri Sheshadri, Synprosoft

📅 Jan 12, 2020

📍 CV Raman Audi IISER Pune

🕐 3:35 PM- 4:35 PM

Talks 📢

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AI

New models of doing and funding science- what the future holds

Speakers

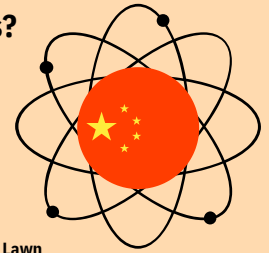Vidur Mahajan, Vivek Jayaraman, Narendra Ahuja, D Dendukuri, Bishesh, Pankaj

📅 Jan 11, 2020

🕐 12:55 PM- 1:40 PM

📍 CV Raman Audi IISER Pune

Fireside Chats 🔥

How did China become a science superpower in two decades?

Speaker

Cong Cao
University of Nottingham, China

📅 Jan 11, 2020

🕐 3:45 PM- 4:30 PM

📍 Hodgin Huxley Lawn IISER Pune

Talks 📢

The roads taken-
life as a scientist, policy maker or entrepreneur

Panelists
Anna Agarwal, Ramesh Hariharan

Moderator
Nisheeth Vishnoi

📅 Jan 11, 2020

🕐 4:30 PM- 5:15 PM

📍 Hodgin Huxley Lawn IISER Pune

Panel Discussions 💬

Should science be priority for India- the fastest growing economy?

Panelists
Sanjay Sharma, Rajan Navani, Priyamvada Natarajan

Moderator
Varun Aggarwal

📅 Jan 11, 2020

🕐 5:30 PM- 6:45 PM

📍 Turing Lawn IISER Pune

Panel Discussions 💬

From Lab to market

Panelists
Manoj Kumar, Taslim Saiyed, B Ravindran

Moderator
Chintan Vaishnav

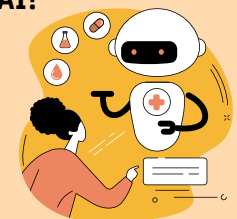📅 Jan 12, 2020

🕐 10:35 AM- 11:45 AM

📍 Turing Lawn IISER Pune

Panel Discussions 💬

Data Panel Harvard: Machines, Medicine and You: Is Indian health care ready for AI?

Speakers

Ashwin Naik, Santanu Bhattacharya, Sunita Nadhamuni, Rahul Mattan, Satchit

📅 Jan 12, 2020

🕐 2:30 PM- 3:30 PM

📍 Turing Lawn IISER Pune

Fireside Chats 🔥

Why and how to build an MIT in India?

Panelists
PJ Narayanan, Rajesh Gopakumar, Anil Sahasrabudhe

Moderator
Nisheeth Vishnoi

📅 Jan 12, 2020

🕐 3:35 PM- 4:35 PM

📍 Turing Lawn IISER Pune

Panel Discussions 💬

Why science needs women?

Panelists
Gagandeep Kang, Minnie Viad, Gargi Dasgupta

Moderator
Kavya Narayanan

📅 Jan 12, 2020

🕐 4:35 PM- 5:20 PM

📍 CV Raman Audi IISER Pune

Panel Discussions 💬

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TYT: Talk Your thesis Talks

Search for physics beyond the standard model

Speaker

Angira Rastog
IISER, Pune

📅 Jan 11, 2020

🕐 12:45 PM- 12:55 PM

📍 Hodgin Huxley Lawn IISER Pune

TYT📢

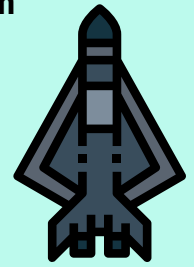### Control of unstart phenomenon in scramjet engines

Speaker

Anchal Varshney

📅 Jan 11, 2020

🕐 12:45 PM- 12:55 PM

📍 CV Raman Audi IISER Pune

TYT📢

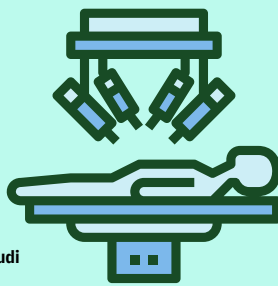### How to teach a robot to perform a brain surgery

Speaker

Vikas Vazhaiyal

📅 Jan 11, 2020

🕐 3:35 PM- 3:45 PM

📍 CV Raman Audi IISER Pune

TYT📢

Factor affecting lift generation in insects and birds

Speaker

Anand Bhardwaj
IIT Madras

📅 Jan 12, 2020

🕐 2:10 PM- 2:10 PM
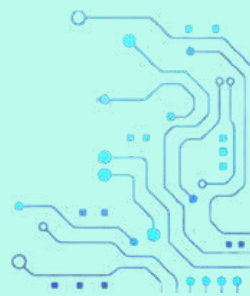
📍 Hodgin Huxley Lawn IISER Pune

TYT📢

TBD

Speaker

Nitesh Mishra

📅 Jan 12, 2020

🕐 4:25 PM- 4:35 PM

📍 Turing Lawn IISER Pune

TYT📢

PYP: Perform Your Project Talks
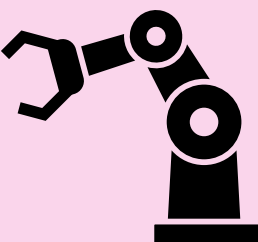
Anveshan:
Voice controlled robotic arm

Speaker

Ankit S. Gupta

📅 Jan 11, 2020

🕐 3:35 PM- 3:45 PM

📍 Turing Lawn IISER Pune

PYP📢

Controlling humans and their free will

Speaker

Anubhav Mishra

📅 Jan 11, 2020

🕐 3:35 PM- 3:45 PM

📍 Hodgin Huxley Lawn IISER Pune

PYP📢

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PYP: Perform Your Project Talks
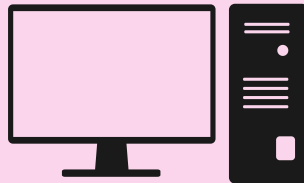
Battery-less UPS system using flywheel

Speaker

Sivaranjani S.

📅 Jan 12, 2020

🕐 2:00 PM- 2:10 PM

📍 CV Raman Audi
IISER Pune

PYP 📢

Duo-vent:
AI-enabled smart ventilation system
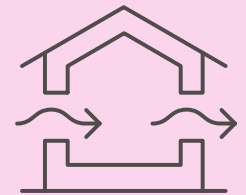
Speaker

Rajesh Thangavel Yadav

📅 Jan 11, 2020

🕐 3:35 PM- 3:45 PM

📍 Hodgin Huxley Lawn
IISER Pune

PYP 📢

KnightCryption: Algorithm derived from chess, math and sanskrit poetry

Speaker

Arush Gupta

📅 Jan 12, 2020
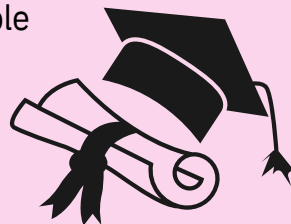
🕐 4:25 PM- 4:35 PM

📍 CV Raman Audi
IISER Pune

PYP 📢

RoundTables

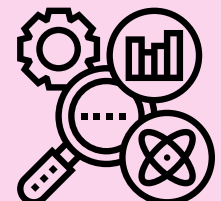## Improving PhD programs in India
PhD Student Roundtable

📅 **Jan 11, 2020**

Roundtable 👥

Industry-academia research collaborations - examples of successes
NASSCOM

📅 **Jan 12, 2020**

Roundtable 👥

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India Science Festival

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