



BITS Pilani

Pilani Campus

INTERNATIONAL WEBINAR ON

SMART CITIES: BEYOND THE PANDEMICS

JULY 10-11, 2020



About BITS Pilani

BITS Pilani is an all India institute for higher education and currently declared as one of the Indian institutes of eminence by the government of India. Its vision is commitment to transparency and equal opportunity for all. This is located in the Vidya Vihar Campus in the City of Pilani, Rajasthan. The mission of BITS Pilani is to advance knowledge and educate students in science and technology and other area of scholarship that best serves the nation.

About Webinar

The COVID-19 pandemic has engulfed the whole world and the big question is whether the world population have enough resources and strategies in place to safeguard themselves from COVID-19 and similar infectious diseases. Due to the pandemic, work in almost all sectors have come to a standstill, thereby severely crippling the economy. The society will be facing a lot of unknown challenges in the coming years. The concept of smart cities is bound to change as the world struggles to cope up with the pandemic. Cities in the future need to be better prepared to face challenges as we are facing now. Public transport, health, education, retail, travel and hospitality sectors need to be redefined in the way they are run. Use of technology and innovative solutions will help us pave the way forward.

The purpose of the International Webinar is to envisage such challenges and discuss how technology can help our cities and towns overcome them in the post COVID-19 era. This event will provide a platform to share and learn from the experiences through discussion and interactions with the leading international collaborators of BITS Pilani. The webinar will also showcase the activities happening in the domain of Smart Cities at BITS Pilani. The event will explore the possibility of long term collaborations with partner universities to propose solutions to the problems being currently faced by smart cities post-pandemics and formulate the strategy for the future research directions.

Presentation Schedule

Time (IST)	Day 1: July 10, 2020
8:00-8:10 AM	Inaugural welcome address Prof. Souvik Bhattacharyya, VC, BITS Pilani & Prof. Sudhirkumar Barai, Director, BITS Pilani, Pilani Campus
8.10-8.55 AM	Aware, Empowered and Resilient Built Infrastructure Prof. Abhijit Mukherjee, Curtin University, Australia
9:00-9:45 AM	Smart City Assessment Tools: Towards Integrating Resilience Indicators Prof. Ayoob Sharifi, Hiroshima University, Japan
10:00-10:45 AM	Research without Border and Continuing Professional Development Prof. U. Johnson Alengaram, University of Malaya, Malaysia
12:00-12:45 PM	Connected Autonomous Bus and Light Rail Transit as Quality Public Transport in Post-Pandemic Smart City Prof. Akimasa Fujiwara, Hiroshima University, Japan
1:00-2:00 PM	Lunch
2:00-2:45 PM	Impacts of Cycling, Measurements and Network Integration Dr. Bidisha Ghosh, Trinity College Dublin, Ireland.
3:00-3:45 PM	Raising Dynamic Digital Twins Prof. Roger P. West, Trinity College Dublin, Ireland
6:00-6.45 PM	Resilient Urban Water Systems for Smart Cities: A Gray-Green Infrastructure Model Prof. Garrick Louis, University of Virginia, USA
7:00-7.45 PM	Water and Development: Smart Cities & Beyond Dr. Sheetal Shekri, University of Virginia, USA

Time (IST)	Day 2: July 11, 2020
9:00-9:45 AM	Strategies for Enhancing Resiliency of Modern Concrete Structures Under Fire Hazard Prof. Venkatesh Kodur, Michigan State University, USA
10:30-11:15 AM	Resilient ultra-strong composites for next-generation urban infrastructure Dr. Vipul Patel, La Trobe University, Australia
11:15-12:00 AM	Sharing experiences on Smart Cities projects at BITS Pilani BITS Pilani Presentation #1
12:00-12:45 PM	Autonomous and Connected Vehicles – Industry Impact and Opportunities Prof. Aniruddha Desai, La Trobe University, Australia
1:00-2:00 PM	Lunch
2:00-2:45 PM	Notes on the smartification of cities Prof. Juval Portugali, Tel Aviv University, Israel
3:00-3:45 PM	Big Spatial Data and Urban Modeling Prof. Itzhak Benenson, Tel Aviv University, Israel
4:00-4:45 PM	Tea Break
5:00-5:45 PM	Sharing experiences on Smart Cities projects at BITS Pilani BITS Pilani Presentation #2
6:00-6:45 PM	Towards Biosensor Enabled Smart Dressings for Management of Chronic Wounds: Advances and Perspectives Prof. Shekhar Bhansali, Florida International University, USA
7:00-7:10 PM	Closing Remarks
7:10-7:40 PM	Collaboration session – Speakers & BITS Pilani researchers

Chief Patron:

Prof. Souvik Bhattacharyya
Vice-Chancellor, BITS Pilani

Patron:

Prof. Sudhirkumar Barai
Director, BITS Pilani, Pilani Campus

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REGISTRATION

All participants can register free of charge for all sessions of webinar through online registration using the link given below.

<http://discovery.bits-pilani.ac.in/WebinarRegistration/>

Any queries related to the webinar can be directed to:

smartcitieswebinar@pilani.bits-pilani.ac.in





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DAY ONE

INTERNATIONAL SPEAKERS

DAY TWO



Abhijit Mukherjee

Curtin University, Australia



Ayyoob Sharifi

Hiroshima University, Japan



U. Johnson Alengaram

University of Malaya, Malaysia



Akimasa Fujiwara

Hiroshima University, Japan



Bidisha Ghosh

Trinity College Dublin, Ireland



Roger P. West

Trinity College Dublin, Ireland



Garrick Louis

University of Virginia, USA



Sheetal Shekhri

University of Virginia, USA

Venkatesh Kodur

Michigan State University, USA



Vipul Patel

La Trobe University, Australia



Aniruddha Desai

La Trobe University, Australia



Juval Portugali

Tel Aviv University, Israel



Itzhak Benenson

Tel Aviv University, Israel



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