# COUNCIL OF ARCHITECTURE
## TRAINING & RESEARCH CENTRE, BHOPAL

in Collaboration with
PLANNOGRAM
*Is Organizing National Level Online Workshop*
*On*

# Open Source Framework: Delineation of Urban Features from UAV Drone Data

*DATE : **20th** TO **24th** FEB 2023*
*TIME :  **1:00** PM TO **4:00** PM*

*Registration on first come first serve basis*

Limited seats only. First 35 participants will get confirmation from the organisers.
Registration will close once seats are full.

**CONVENOR**
**Dr.Navneet Munoth**
Hon. Director
CoA-TRC, Bhopal

**EXPERT**
**Mr. Samarjeet Salunke**
IIT Bombay
**Dr.Pawan Kumar**
TCPO,
Ministry of Housing and Urban Affairs,
GOI

**COORDINATORS**
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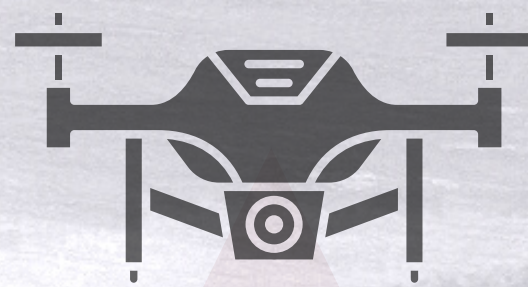in Collaboration with

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## Open Source Framework: Delineation of Urban Features from UAV Drone Data

DATE : *20TH TO 24TH FEB 2023*  I  TIME :  *1PM TO 4PM*

## About The Workshop :

The workshop will assist in understanding the fundamentals and applications of UAV drones in city mapping. Participants will gain hands-on experience with UAV drone data, setting up required SQL queries, and establishing an open source framework to distinguish urban feature classes.

## Workshop Schedule :

It's a five day online workshop.

| DAY 1 | DAY 2 | DAY 3 | DAY 4 | DAY 5 |
|-------|-------|-------|-------|-------|
| Inroduction to UAV drone data & QGIS application. | Drone Technology in Master Plans Preparation : Govt Initiatives & Basic of SQL spatial database setup for urban features. | Create basemap: Establish urban features from UAV drone data. | Image processing: classification methods to delineate desired urban feature | Explore: Semi automation methods /Plugins to delinate urban features. |

## About The Expert:

### Mr.Samarjeet Salunke,  IIT Bombay

Mr. Samarjeet Salunke is pursuing his Ph.D. in Construction Management at Civil Engineering Department, IIT Bombay with specialization in BIM and GIS integration in construction industry. He has 2 years of industrial experience focused mainly in integration and design system architecture of building permit and GIS for various municipal corporation. He has sound experience in 2D and 3D city mapping using UAV and TLS technology. He finds himself self-driven in area of spatial database management, UAV and TLS application, design system architecture, BIM-to-GIS, automation in spatial data processing, point cloud data management, WebGIS application using open source technology.

### Dr.Pawan Kumar, TCPO, Ministry of Housing & Urban Affairs, GOI

Dr.Pawan Kumar is Architect-Town Planner having Bachelor Degree in Architecture, Masters Degree in Planning and Ph.D. in Transportation. At present, he is working as Associate Town & Country Planner in TCPO, Ministry of Housing and Urban Affairs, Govt. of India, New Delhi. He has about 20 years professional experience in the field of architecture, transport, housing and city planning etc. He has authored more than 100 technical & research papers which have been published in different books, national & international journals. Presently, he is working on Applications of Space Technology in planning and designing of Cable Cars (Ropeways) for Urban Mobility in Indian Cities. He is also associated with Space Technology Application Cell and Formulation of GIS based Master Plan for 500 Cities under AMRUT.

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**Registration Fee:**
**RS 1500/-**
For Architecture & Planning Students/ Academicians / Professionals / PG and Ph.D. students (With valid COA Registration Number)

**Registration Fee:**
**RS 3000/-**
Other Professionals (Without COA Registration Number)

SCAN TO REGISTER

SCAN FOR PAYMENT

### Take-Aways:
- Impart knowledge about contextual understanding, sustainability, inclusivity, safety and security, functionality, cost-effectiveness, and aesthetic appeal within the regulatory realm.
- Allow participants to address issues within the field, to encourage high-quality architecture, sustainable development of the environment, and urban design, celebrating cultural and heritage conservation.
- Enable participants in delivering quality, managing risks, and nurturing innovation to allow for maximized public interest of investment for the built environment.

### Pre-Requisites :
- The workshop is designed for beginners. No prerequisite for any language is required. It will be covered during the workshop.
- A laptop/pc with minimum 2-4GB RAM windows o.s & good internet connectivity is required.

### Participants:
- Academicians, Ph.D. Scholars, Policy makers from the Department of Town Planning, Development Authorities, and Professionals from the field of Building construction & allied fields can participate.
- Kindly mail the scanned images of proof of payment to coatrc.bhopal@gmail.com to confirm registration.
- Virtual meeting link ZOOM will be shared after registration by email.
- E-certificate of the workshop shall be sent by email on the registered Email ID of the participant upon successful completion of the program i.e. by attending all sessions and completing the MCQ test (conducted on the last day from 4:30 to 5:30 PM)..

For any queries Email at saini.devendraa@gmail.com