

## ICPR 2020 - PRAConBE Workshop program

Sunday, January 10, 2021, 12:00 – 16:00 (CET)

**12:00 – 12:10.** Introduction to workshop form the Organizers

**12:10 – 12:40.** Keynote speech: Recent advances in automation in construction, Frédéric Bosché, Senior Lecturer in Infrastructure Programme Management at the University of Edinburgh

### **Workshop papers presentations (20mins each – 15 mins presentation and 5 Q/A):**

**12:40 – 13:00.** Upinder Kaur, Praveen Abbaraju, Harrison McCarty and Richard Voyles, *“Clutter Slices Approach for Identification-on-the-fly of Indoor Spaces”*

**13:00 – 13:20.** Victor Megir, Giorgos Sfikas, Athanasios Mekras, Christophoros Nikou, Dimosthenis Ioannidis and Dimitrios Tzovaras, *“Salient object detection with pretrained Deeplab and k-means: Application to UAV-captured building imagery”*

**13:20 – 13:40.** Roland Kajatin and Lazaros Nalpantidis, *“Image Segmentation of Bricks in Masonry Wall Using a Fusion of Machine Learning Algorithms”*

**13:40 – 14:00.** John Kufuor, Dinya Debadarsini Mohanty, Frédéric Bosché and Enrique Valero, *“Automatic MEP Component Detection with Deep Learning”*

**14:00 – 14:20.** George Pavlidis, Apostolos C. Tsolakis, Dimosthenis Ioannidis and Dimitrios Tzovaras, *“Demand Flexibility Estimation Based on Habitual Behaviour and Motif Detection”*

**14:20 – 14:40.** Antigoni Panagiotopoulou, Lazaros Grammatikopoulos, Georgia Kalousi and Eleni Charou, *“Sentinel-2 and SPOT-7 Images in Machine Learning Frameworks for Super-Resolution”*

**14:40 – 15:00.** Kosmas Tsiakas, Ioannis Kostavelis, Dimitrios Giakoumis and Dimitrios Tzovaras, *“Road tracking in semi-structured environments using spatial distribution of Lidar data”*

**15:00 – 15:20.** Parth Bhadaniya, Varun Kumar Reja and Koshy Varghese, *“Mixed Reality-Based Dataset Generation for Learning-Based Scan-to-BIM”*

**15:20 – 15:40.** Georgios Chantziaras, Andreas Triantafyllidis, Aristotelis Papaprodromou, Ioannis Chatzikonstantinou, Dimitrios Giakoumis, Athanasios Tsakiris, Konstantinos Votis and Dimitrios Tzovaras, *“An Augmented Reality-based Remote Collaboration Platform for Worker Assistance”*

**15:40 – 16:00.** Discussion and closing remarks