Transforming Construction with Reality Capture Technologies

The Digital Reality of Tomorrow | August 23-25, 2022

Fredericton, New Brunswick, Canada

Venue: Wu Conference Centre, University of New Brunswick (UNB)
TCRC 2022 - Conference Call

Keynote Speakers

Prof. Ioannis Brilakis, University of Cambridge
Prof. Carl Haas, University of Waterloo
Prof. Amin Hammad, Concordia University
Prof. Zheng Liu, University of British Colombia
Dr. Gunho Sohn, York University

Chairs

Brandon Searle, P. Eng., M. Eng. Chair, Organizing Committee
Ala Sullman, PhD., P. Eng. Chair, Technical Committee

Welcome to the University of New Brunswick

Pomerleau R&D lab
The specialty conference theme is Reality Capture Technologies in the Built Environment, with the focus on applications being used to enhance existing processes and inform better decisions for planning, building, operating, and maintaining the built environment. The range of the topics include:

- Image/video processing, laser/LiDAR scanning
- Scan-to-BIM and point-cloud processing
- Radar/GPR sensors, ID/information sensors, position sensors
- Surveying, remote sensing, visual documentation and as-is modelling
- Integration of reality capture with modern technologies (i.e., 3D Printing, Robotics, Digital twins, Augmented/virtual/mixed reality, UAVs, Virtual Design and Construction (VDC), Digital fabrication, etc.)
- AI/machine learning & cloud/edge computing for data processing
The specialty conference will feature:

✓ Presentations of peer-reviewed academic papers
✓ Presentation case studies by industry practitioners
✓ Plenary sessions & engaging keynote speakers
✓ Industry workshops
✓ 5-min student competition

✓ Innovation Pitch Stream by industry & research labs:
It is an exclusive chance for industry and government sectors to share, through live presentations, their challenges, problems, and objectives. It is also an opportunity for applied research labs worldwide to showcase their previous projects and highlight their innovative strategies, roadmaps, and research directions for a better tomorrow. Our goal is to create a market for remote capture innovation by connecting those with related problems with those with solutions.
## Important Dates

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<td>Full paper acceptance</td>
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**Conference Dates:** August 23-25, 2022

**Website:**

URL: [https://www.unb.ca/ocrc/events/reality-capture/index.html](https://www.unb.ca/ocrc/events/reality-capture/index.html)
Join us in Fredericton, NB, Canada