

PhD School on Advanced BIM Applications and Digital Twin Technology

(CBIM.TE4)

March 6th – 10th, 2022

Schedule



PhD School on Advanced BIM

Applications and Digital Twin

Technology

Digital Fabrication and Parametric Modeling

Sunday, March 6th 2022

09:00-09:30 (IST)

Welcome from the organizers and CBIM training chair

09:30-10:30 (IST)

Prof. Oded Amir - Structural Optimization

10:30-11:00 (IST)

Coffee Break

11:00-12:00 (IST)

Arch. Shany Barath - Parametric Design

12:00-13:00 (IST)

Dr. Huaquan Ying - Geometry representations and processing in BIM

13:00-14:00 (IST)

Lunch

14:00-15:00 (IST)

Prof. Aaron Sprecher - Digital Fabrication - Visit Architecture Fabrication labs

15:00-18:00 (IST)

Dr. Jhonattan Martinez - 3D Modelling and UAS technology, *Prof. Aaron Sprecher* - Design and Digital Fabrication - **Workshops**

Machine Learning in Civil Engineering

Monday, March 7th 2022

08:30-09:30 (IST)

Prof. Rafael Sacks - BIM, AI and
Construction Tech

09:30-10:30 (IST)

Jonathan Lazovski - Generative Design of
RC Structures

10:30-11:00 (IST)

Coffee Break

11:00-12:00 (IST)

Roy Danon - AI for Site Progress Assessment

12:00-13:00 (IST)

Aviad Almagor - Trimble Innovation in a
major BIM Vendor

13:00-14:00 (IST)

Lunch

14:00-17:00 (IST)

Dr. Tanya Bloch - Hands on Tutorial -
Introduction to Basic ML Algorithms, Feature
Engineering and AzureML - **Workshops**

17:00-17:30 (IST)

Travel to Caesarea

17:30-20:00 (IST)

Social Event -
Dinner and sight seeing at Caesarea

20:00-20:30 (IST)

Travel to Haifa

Digital Twin Construction and Cloud BIM

Tuesday, March 8th 2022

08:30-09:00 (IST)

*Prof. Rafael Sacks - Principles of DTC -
Simulation and Production Planning*

09:00-10:30 (IST)

*Prof. Ioannis Brilakis - Commercialization of
Digital Twin*

10:30-11:00 (IST)

Coffee Break

11:00-13:00 (IST)

*Prof. Lucio Soibelman - Advanced
Infrastructure Systems, Sensors and
Data Mining*

13:00-14:00 (IST)

Lunch

14:00-15:00 (IST)

*Susana Martín Toral - Innovative Information
Technologies for Energy Efficient Buildings*

15:00-16:00 (IST)

*Prof. Dimitrios Rovas - Digital Twins for
building energy operation*

16:00-16:30 (IST)

Coffee Break

16:30-17:30 (IST)

*Dr. Erika Parn - Business Models of Digital
Twins*

17:30-18:30 (IST)

*Prof. Timo Hartmann - Cloud BIM
Technology*

Innovation in Construction

Tech companies visit

Wednesday, March 9th 2022

07:30-09:30 (IST)

Bus to Ra'anana

09:30-12:00 (IST)

Dubi Dover (Tidhar) - Design with BIM and VDC

12:00-12:30 (IST)

Travel to Sarona - Tel Aviv

12:30-13:30 (IST)

Lunch on your own

13:30-14:30 (IST)

Ronen Barak - Versatile

14:30-15:30 (IST)

Ilai Rotbaein - BIM 360

15:30-16:00 (IST)

Coffee Break

16:00-17:30 (IST)

Zachi Flatto - Review of Israel Construction Tech (CONTECH)

17:30-18:30 (IST)

Tour on your own to Nahalat Binyamin

18:30-19:00 (IST)

Tour TLV and / or travel independently to Haifa

Academic writing / Innovation in construction

Thursday, March 10th 2022

08:30-09:30 (IST)

Dr. Orit Rabkin - Advanced Academic Writing and Reviewing

09:30-10:30 (IST)

*Dr. Orit Rabkin - Journal Paper Writing -
Workshops*

10:30-11:00 (IST)

Coffee Break

11:00-12:00 (IST)

*Dr. Orit Rabkin - Continuation of **Workshops***

12:15-13:15 (IST)

Dr. Ergo Pikas - Digital Design Collaboration

13:15-14:15 (IST)

Lunch

14:15-15:15 (IST)

Adi Shavit - Design and Planning Using AI

15:15-16:15 (IST)

Prof. Eleni Papadonikolaki - Blockchain Digital Innovations in Construction

16:15-16:45 (IST)

Closing session

Visit the conference
website for more
information

