

Call for Papers

Mini-Symposium on Digital Twin Construction

Dear Colleagues,

We are delighted to invite you to participate in a **mini-symposium on the topic of "Digital Twin Construction"**, which will take place within the **19th International Conference on Computing in Civil and Building Engineering (ICCCBE19)**, to be held in Cape Town, South Africa, from 26th - 28th October 2022 (see <https://icccbe.org/> for more information, and specifically **theme 510 Digital Twin Construction**).

Digital twin construction (DTC) is a new mode for managing production in construction that leverages the data streaming from a variety of site monitoring technologies and artificially intelligent functions to provide accurate status information and to proactively analyze and optimize ongoing design, planning, and production.

The mini-symposium will host conference papers in two dedicated and consecutive special sessions. Among the topics we would like to include:

- Methods for data acquisition on construction sites
- Merging and interpreting monitoring data to provide helpful project status information (PSI)
- Algorithms for processing raw monitored data
- Comparison of intent information (project design and process plan) with status information (as-built and as-performed information) to formulate actionable knowledge
- Simulation, prediction, and optimization of expected project performance
- Delivering project intent information (product design and/or process plan) to actors in a construction project

Researchers from the EU Horizon research projects on building digital twins (**BIM2TWIN**, **ASHVIN**, **COGITO** and **BIMPROVE**) are particularly encouraged to participate.

The key dates for abstracts and paper submission are the following:

- o **May 15, 2022** – Abstract submission deadline
- o **June 30, 2022** – Full paper submission deadline
- o **15 September 2022** – Registration deadline

The conference webpage is: <https://icccbe.org/>

We look forward to hearing from you, and we remain at your disposal for any queries.

Best regards,

Prof. Rafael Sacks
Dr. Jhonattan G. Martinez* (jonattanm@campus.technion.ac.il)
Timson Yeung
[Virtual Construction Lab, Technion - Israel Institute of Technology](#)