



Department of Civil &
Environmental Engineering
College of Design and Engineering

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Department of Civil and Environmental Engineering

Cybersecurity Implications of Construction 4.0

by

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Assistant Professor in the Department of Civil and Urban Engineering at the Tandon School of
Engineering at New York University (NYU)

**Host: Professor David Chua, Deputy Head (Admin)
Department of Civil and Environmental Engineering**

**Date: 31 March 2023, Friday
Time: 10:00 am – 11:30 am
Venue: E3-06-08
College of Design and Engineering
National University of Singapore
2 Engineering Drive 3
Singapore 117581**



**Scan code to
register**

*****Seats are limited. Please register early. All are welcome and admission is free*****

Abstract

The modernization of the AEC industry includes new technologies such as building information modeling (BIM) and common data environments (CDEs) that increase the efficiency of construction tasks and make the industry more connected. It also facilitates the convergence of information technologies (IT) (e.g., digital data storage, generative design) and operational technologies (OT) (e.g., 3D printing, Internet of Things (IoT)). As a result, connectivity and collaboration in construction projects are reinforced, ultimately improving the efficiency, sustainability, resilience, and productivity of our built environment. These are all great things for a sector that is finding automation as a solution to address productivity issues. However, this increased connectivity (e.g., the use of digital twins) opens the door to significant vulnerabilities, which can influence different stakeholders in an industry unaware of the cybersecurity implications of such digital transformation.

Speaker's Biography



Dr. Borja García de Soto is an Assistant Professor of Civil and Urban Engineering at New York University Abu Dhabi (NYUAD) and a Global Network Assistant Professor in the Department of Civil and Urban Engineering at the Tandon School of Engineering at New York University (NYU). He is the director of the S.M.A.R.T. Construction Research Group at NYUAD and conducts research in the areas of automation and robotics in construction, cybersecurity in the AEC industry, artificial intelligence, lean construction, and BIM. He is also the General Secretary of the International Association for Automation and Robotics in Construction (IAARC) and a member of the Editorial Board for Automation in Construction.

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Map of Seminar Room E3-06-08. 2 Engineering Drive 3, Singapore 117581

Seminar Room (E3-06-08) is on floor 6.

