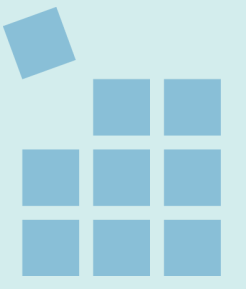# 2019 Conclave on Automating Construction Projects

Venue:
ETH Zürich
Institute of Construction and Infrastructure Management

Hönggerberg Campus
Building **HIL H 35.1**
(Stefano-Franscini-Platz 5, 8093 Zürich)

Agenda

Day 1: Thursday, Feb. 28, 2019

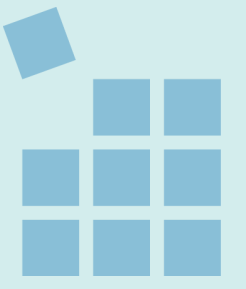| Time	Presenter	University	Title
08.30-09.00	Welcome coffee		
09.00-09.15	Introduction		
09.15-09.55	Prof. Dr. Adey Bryan	ETH Zürich	Automating construction projects is automating part of the infrastructure management process
09.55-10.35	Prof. Dr. Haas Carl	University of Waterloo	Construction and deconstruction in America - The Hönggerberg Chapter
10.35-10.55	Coffee break		
10.55-11.35	Dr. Kielhauser Clemens & Hoffman Jeffrey Joseph	ETH Zürich	Use of drone technology and analytics in site progress measurement and site quality control
11.35-12.15	Chen Qian	ETH Zürich	A lean material flow process supported by BIM and RFID technology to enable on-demand delivery
12.15-13.00	Lunch		
13.00-13.40	Prof. Dr. Brilakis Ioannis	University of Cambridge	Virtualising infrastructure
13.40-14.20	Sanchez Benjamin	University of Waterloo	Multi-objective optimization analysis for selective disassembly planning of buildings
14.20-15.00	Rausch Christopher	University of Waterloo	Computational algorithms for digital twin support in construction
15.00-15.20	Coffee break		
15.20-16.00	Ariyachandra M.R. Mahendrini Fernando	University of Cambridge	Generation of geometric digital twins of rail infrastructure
16.00-16.40	Dr. Lu Ruodan	University of Cambridge	Digital twinning of existing bridges from point clouds
16.40-18.00	Apéro		
18.30-22.00	Dinner at Restaurant Die Waid (Waidbadstrasse 45, 8037 Zürich)		

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Day 2: Friday, Mar. 01, 2019

Time	Presenter	University	Title
09.00-09.40	Prof. Dr. García de Soto Borja	New York University Abu Dhabi	Will construction sites ever be automated?
09.40-10.20	Prof. Dr. Hall Daniel	ETH Zürich	Applying automated scheduling: a comparative analysis of taktplanning and the tri-constraint method
10.20-10.40	Coffee break		
10.40-11.20	Dr. Mantha Ram Kumar Bharadwaj	New York University Abu Dhabi	And what about cybersecurity?
11.20-12.00	Hunhevicz Jens	ETH Zürich	Managing mistrust in construction using distributed ledger technologies: a review of use-case categories for technical design decisions
12.00-13.00	Lunch		
13.00-13.40	Prof. Dr. Hartmann Timo	TU Berlin	Integrated system modeling at the civil systems department of the TU Berlin
13.40-14.20	Ungureanu Lucian Constantin	TU Berlin	Information extraction to support automation of navigation through 3D models during collaborative design sessions
14.20-15.00	Cao Jianpeng	ETH Zürich	An overview of configurators for industrialized construction: typologies, customer requirements, and technical approaches
15.00-15.20	Coffee break		
15.20-16.00	Baltasi G Sevde	University of Cambridge	PointPix: digitising infrastructure scenes
16.00-16.30	Wrap-up		

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