



## Call for Attendees

# The 33<sup>rd</sup> Special Seminar of School of Engineering Tokyo Institute of Technology

In this seminar, Professor Klemt-Albert, the director of the ICoM – the Institute for Construction Management, Digital Engineering and Robotics in Construction at RWTH Aachen University, will present current research results in the field of sustainable digitalization and present the new learning factory for construction robotics set up at RWTH Aachen University.

Date & Time: 16<sup>th</sup> May, Tuesday, 17:00-18:10

Venue: Meeting room 304, Ishikawadai 3<sup>rd</sup> Bldg., Tokyo Institute of Technology  
2-12-1 Ookayama, Meguro-ku, Tokyo 152-8550

<https://www.titech.ac.jp/english/0/maps>

<https://www.titech.ac.jp/english/0/maps/ookayama>

### Program:

17:00-17:05 Welcome address

17:05-18:05 Lecture

Sustainable Digitalization in Infrastructure and Construction – a German Perspective

by Prof. Katharina Klemt-Albert, RWTH Aachen University

<https://www.icom.rwth-aachen.de/go/id/mefd/?lidx=1>

18:05-18:10 Closing address

Language: English

Registration Fee: Free

Organizer: School of Engineering, Tokyo Institute of Technology

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## Sustainable Digitalization in Infrastructure and Construction – a German Perspective



**Univ. Prof. Dr.-Ing. Katharina Klemt-Albert**  
**Head of Institute for Construction Management,**  
**Digital Engineering and Robotics in Construction**  
**RWTH Aachen University**

### Abstract

Digital transformation and sustainability are the most important issues in the construction industry. In Europe specifically, carbon policies will rapidly change the industry's agenda over the next decade, requiring urgent action to achieve net-zero targets. Construction, which is responsible for nearly 40 percent of global CO<sub>2</sub> emissions - is on one hand elusive, but on the other offers the greatest potential for innovation.

Professor Klemt-Albert is involved in initiatives launched by Germany's federal government to leverage the potential in construction. This concerns both federal-owned building structures and in particular Germany's extensive road and railway infrastructures. In addition to these insights, she will show current research results in the field of sustainable digitalization and present the new learning factory for construction robotics set up at RWTH Aachen University.

### Biography

Prof. Katharina Klemt-Albert is director of the ICoM – the Institute for Construction Management, Digital Engineering and Robotics in Construction at RWTH Aachen University. Projects at ICoM focus on sustainable digitalization and smart automation in architecture, engineering and construction. RWTH Aachen University owns the title to be called German University of Excellence, besides being a founding member of the IDEA League, a strategic alliance of five leading technical universities in Europe.

Before joining RWTH Aachen University, Klemt-Albert was chair and professor at Leibniz Universität Hannover since 2016. Her academic career began with studies in civil engineering at Ruhr University in Bochum. In 2001, she earned a doctorate with honours from the Technical University of Darmstadt in cooperation with the Northwestern University, U.S.A. Professor Klemt-Albert has extensive management and industrial experience. She spent 14 years in top management at Deutsche Bahn AG, most recently as managing director of an international engineering company with 1,500 employees. She was responsible for numerous mega projects with a focus on the Gulf region, Asia and South America. She is also the founder of albert.ing GmbH, a specialized provider for digital transformation.

In addition, Klemt-Albert is a valued advisor as Member of the Scientific Advisory Board for the Federal Highway Research Institute and part of the Federal Committee for Rail Enhancement by the Federal Minister for Digital and Transport. Furthermore, she is curator of the Fraunhofer Institute for Physical Measurement Techniques as well as Chairwoman of the presidium of BuildingSMART Germany.

