



#AIAEC2026

aiaec.net

Artificial Intelligence in Architecture, Engineering and Construction

AIAEC

March 18–19, 2026

HELSINKI, FINLAND & VIRTUAL

Tuesday, March 17

Get together

19:00

21:00

Wednesday, March 18

Conference day 1

08:30

16:30

Dinner

19:00

22:00

Thursday, March 19

Conference day 2

08:30

15:50

PARTNERS



SUPPORTED BY



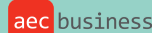
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Wednesday, March 18

BYSA 1-2

BYSA 3

08:00 Coffee and Exhibition

08:30 Opening session

Chair: **Vesa Järvinen**, AINS Group / A-Insinööri, Finland

08:30 Opening of the AI in AEC 2026

Dr. Vesa Järvinen, AINS Group / A-Insinööri, Finland

08:45 **Keynote 1 Dr. Sam Zolfagharian**
Co-Founder & Strategic Advisor YegaTech, United States

The Future of AEC Work in an AI-Driven Environment

09:30 Partner presentations



Dr. Sam Zolfagharian

09:40 Coffee and Exhibition

10:10 Session 1: AI Implementation

Chair: **Vesa Järvinen**, AINS Group / A-Insinööri, Finland

10:10 Opening of the Session

10:15 A Look at How US State DOT's are Investigating and Implementing AI Solutions

Jesse Newberry and **Jeff Siegel**, HNTB, United States

10:35 The CEO's AI Playbook

Max Levander, AINS Group / A-Insinööri, Finland

10:55 Cultivating AI Culture: How Bottom-Up AI Adoption Creates Lasting Transformation in Architecture

Nitsan Bartov, **Ashkan Rezaee** and **Eliana Nigro**, Henning Larsen, Denmark

11:15 From Resistance to Resilience: Change Management for AI in Practice

Erik Stroemberg, HLB Lighting Design, United States

11:35 Real-World AI in AEC: A Year of Implementation at Proyectos Engineering

Joaquin Arocena, Proyectos Engineering, Uruguay, **Abel Van Steenweghen** and **Brecht Pierreux**, Macadamia, United States

08:30

10:10

10:10 Session 2: Demos

Chair: **Simon Oster**, Arcadis, The Netherlands

10:10 Opening of the Session

10:15 Integration of AI in Daily Structural Design

Alexey Serous, Sweco, Finland

10:35 Learning AI Assistant for Product Selection in Construction: From Data to Decision

Rasmus Paatsalo and **Kerkko Niemi**, Granlund, Finland

10:55 From Manual Work to Intelligent Automation

Stijn Jansen and **Peter Madlener**, VIKTOR, The Netherlands

11:15 Empowering the Next Generation of Infrastructure Design: AI-driven Workflows for Accelerating Project Delivery

Daniel Eng* and **Dr. Louis-Martin Losier**** Bentley Systems, *United States **Canada

11:35 A.Engineer: Empowering Every Engineer with Generative AI

Richard Parker, Tyréns Group / AKT II, United Kingdom

11:55 Lunch and Exhibition

13:00 Session 3: Multi-Agent AI and Workflows

Chair: **Kalle Valkama**, Tyréns, Sweden

13:00 Opening of the Session

13:05 Multi-agent AI Orchestration for Building Management System (BMS) and Project Data Access in AEC

Petri Kasari, Sweco, Finland

13:25 AI-Driven Multi-Agent System for Automated Structural Engineering

Jani Nevalainen, AINS Group / A-Insinööri, Finland

13:45 Multi-Agent Systems for Design and Construction Process Optimization

Mona Muehlich, Fraunhofer Institute for Solar Energy Systems ISE, Germany

14:05 The Era of Multi-Agents and Enhanced Collaboration at Scale for Construction Design

Henri Pitkänen and **Kim Nyberg**, Trimble, Finland

13:00

13:00 Session 4: AI Technology and Systems

Chair: **Sonja Oksanen**, AINS Group / A-Insinööri, Finland

13:00 Opening of the Session

13:05 How Knowledge Graphs Aligns AEC Product Data to Speak AI?

Tommi Arola, Building information foundation RTS sr, **Otto Alhava**, Fira and **Tero Järvinen**, Granlund, Finland

13:25 Arcyn: Explainable AI for Real-Time Building Code Compliance and Design Standards in BIM

Boris Levin and **Tom Batito**, Arcyn AI, EU

13:45 AI and BIM Integration for the Sustainable and Predictive Rehabilitation of 20th century Serial Social Housing Heritage: A State of The Art Review

Aisan Sharifian, Université de Lille, France

14:05 Agentic vs. Neural Network Comparison for Object Detection in 2D Geometry

Christopher Mouflard, MarkedUp, United States

14:25 Coffee and Exhibition

14:55 Session 5: Adopting AI Trends

Chair: **Simon Oster**, Arcadis, The Netherlands

14:55 Opening of the Session

15:00 **Keynote 2 Bhrgan Paramanatham**,
AECOM / Last Week in ConTech

From Curiosity to Capability: Upskilling Teams for AI Adoption in Construction

15:30 **Panel Discussion: Impact of Agentic AI in AEC Value Chain**

Moderators: **Annina Peisa**, RIL / Ramboll, Finland

Kalle Valkama, Tyréns, Sweden

Panelists: **Dr. Sam Zolfagharian**, Co-Founder & Strategic Advisor, YegaTech, United States

Kim Nyberg, Senior Technology Director, Trimble, Finland

Sam Saatchi, Chief Strategy Officer, Sweco, Sweden

Dr. Simon Oster, Global Director Data Science & AI, Arcadis, The Netherlands

16:30 End of the day 1

14:55



Bhrgan Paramanatham



Dr. Simon Oster



Sam Saatchi

PANEL DISCUSSION



Dr. Sam Zolfagharian



Kim Nyberg

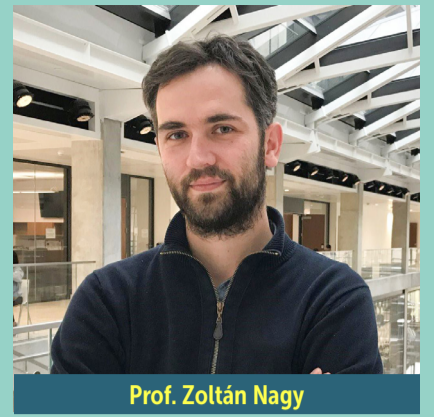
19:00 Dinner at restaurant 10. Kerros

19:00

Thursday, March 19

BYSA 1-2

BYSA 3



Prof. Zoltán Nagy

Pre-recorded keynote 3

Prof. Zoltán Nagy

Chair of Building Services, Eindhoven University of Technology
Founder, Intelligent Environments Laboratory

AI-Driven Multi-Scale Intelligence: From Occupant-Centric Control to Urban Energy Orchestration

08:00 Coffee and Exhibition

08:30 Session 6: Smart Buildings and Cities

Chair: **Henri Pitkänen**, Trimble, Norway

08:30 Opening of the Session

08:35 Deep Reinforcement Learning-Based Real-Time Controller for Energy-Efficient Buildings
Mohammad Seyfi, LUT University, Finland

08:55 Talking to and Interpreting Buildings: GraphRAG, Semantic Graphs, and Data
Dr. Knut Nordanger, SINTEF Community, Norway

09:15 Data-Driven Spatial Optimization in Smart Buildings Using Digital Twin Feedback Loops and AI Simulation
Babak Ehsani, Istanbul Aydin University, Turkey

08:30

08:50

08:50 Session 7: Climate Technology

Chair: **Arto Väisänen**, Sweco, Finland

08:50 Opening of the session

08:55 Combining Thermal Satellite Imagery, Segmentation, and Vision-LLMs to Automate Large Scale Urban Heat Island Analysis
Dr. Rania Labib, Prairie View A&M University, United States

09:15 Master Thesis: AI-Driven Winter Road Maintenance: A Roadmap for Municipal Decision Support
Roope Palomaa, Ramboll, Finland

09:35 Coffee and Exhibition

10:05 Session 8: Sustainable Business Models

Chair: **Kalle Valkama**, Tyréns, Sweden

10:05 Opening of the Session

10:10 AI for Productivity and Better Outcomes in the Built Environment
Bart Brink, TKI Bouw en Techniek, The Netherlands

10:30 AI Playbook for AEC-sector - Organisation tool to AI Localisation
Tommi Arola, Building information foundation RTS sr, **Joonas Lehtovaara** and **Pietti Marjavaara**, AINS Group / A-Insinöörit, Finland

10:50 Designing New Business Models in the AEC: AI as a Catalyst for Business Model Innovation and Transformation
Petra Svensson Gleisner, IHOP, **Ivana Kildsgaard**, Tengbom, Sweden

11:10 Standardized Data and Artificial Intelligence as Enablers of Data Economy in Building Services Engineering
Prof. Piia Sormunen and **Dr. Osku Torro**, Tampere University, Finland

11:30 Mind the Gap: Transforming AEC Project Data into a Living Knowledge Base
Pavlina Nikolova, Egnyte, United Kingdom

10:05

10:05 Session 9: Conceptual Design

Chair: **Sergej von Bagh**, BST-Arkitehdit, Finland

10:05 Opening of the Session

10:10 Predictive Design: Learning Spatial Priors to Guide Conceptual Site Planning
Dylan Wichman, Bentley Systems, United States

10:30 ArchiEstimate: AI-Powered Proposal Estimation for Architectural Practices
Kubilay Şahinler, Trelity, Turkey

10:50 AI in Architecture: Evaluating Current Tools and Advancing Prototype Development for School Building Design
Seeja Sudhakaran, University of West London, United Kingdom

11:10 AI-Enhanced Visualization for Early-Stage Residential Design
Dr. Mauri Laasonen, Tampere University of Applied Sciences, Finland

11:30 AI-Driven Circular Workspace Fit-Outs: Adaptability and Reversibility by Design
Dr. Mikhael Johanes, ETH Zurich, Switzerland

09:35 Coffee and Exhibition

11:50 Lunch and Exhibition

12:50 Session 10: Computational Design

Chair: **Miro Lehtimäki**, Ramboll, Finland

12:50 Opening of Session

12:55 Enabling Data-Driven Design Through a Feedback-Driven Semantic Layer for AEC
Shicong Cao, DataDrivenAEC, Germany

13:15 Advancing AI-Driven Automation in Infrastructure Design
Ramiz Mohareb and **Dirk Münzner**, BuP. Boll Beraten und Planen, Germany

13:35 Quacky: Shaping the Future of Computational Design with AI
Kristoffer Berglund and **Tuomo Palomaa**, Ramboll, Finland

13:55 Enhancing Design Workflows with Computer Vision: Case Studies in Concrete and Wood Truss Analysis
Joonas Helminen, Sweco, Finland

14:15 From Markup to Verification: An AI Tool for Automated Rebar Drawing QA/QC
Manoj Bala Radhakrishna, struct.digital, United Kingdom

14:35 Predictive Analytics for Daylight Factor: Real-Time Machine Learning Integration in Architectural Workflows
Alejandro Pacheco Diéguez and **Christoph Berkmler**, Upskiller.xyz, Sweden

12:50

12:50 Session 11: Construction

Chair: **Arto Väisänen**, Sweco, Finland

12:50 Opening of the Session

12:55 From Checklists to Agents: AI for HSE in Construction
Guido Maciucci, AECFoundry, Italy

13:15 Beyond Rework: Predicting Construction Errors with AI
Dr. Roxi Mkhani, Kingston University London, United Kingdom

13:35 Reinventing Construction Estimation: AI-Powered Takeoffs to Solve the Industry's Labor Crisis
Tommy Whitehead, TomCo Solutions, United States

13:55 Bric-a-Brick: Vision-Driven Human-Robot Collaboration for Ergonomic Bricklaying
Prof. Pierpaolo Ruttico, INDEXLAB - Politecnico di Milano, Italy

14:15 Future of Organizations in Construction Management - Hybrid Human-Technology-AI Teams
Karoliina Alatalo, AINS Group / A-Insinöörit, Finland

11:50 Lunch and Exhibition

14:55 Coffee and Exhibition

15:10 Closing session

Chair: **Vesa Järvinen**, AINS Group / A-Insinöörit, Finland

15:10 **Keynote 4 Prof. Sigrid Brell-Cokcan**

Director of Individualized Production, RWTH Aachen University
President of the Association for Robots in Architecture

5G, AI and Construction Robotics for the Construction Site of the Future

15:40 Closing Words

Dr. Vesa Järvinen, AINS Group / A-Insinöörit, Finland

15:50 End of AI in AEC 2026

15:10



Prof. Sigrid Brell-Cokcan

14:35 Coffee and Exhibition