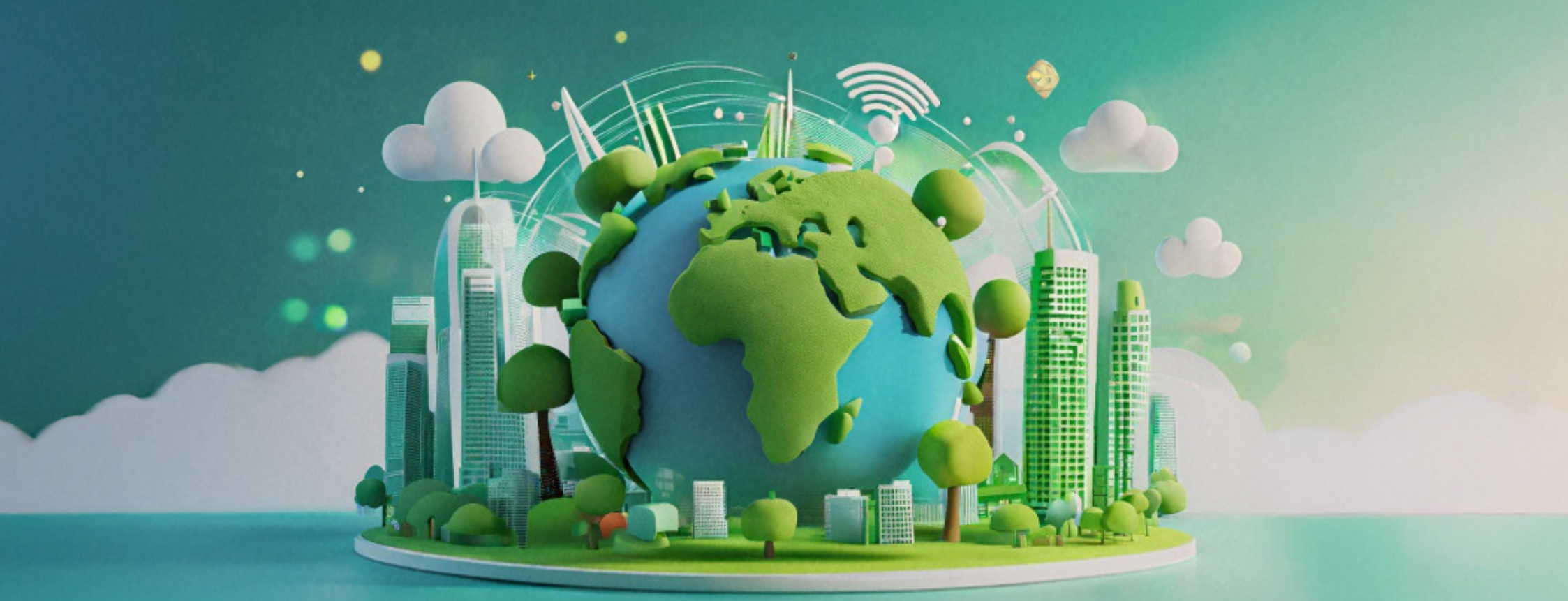

#AIAEC2026

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Artificial Intelligence in Architecture, Engineering and Construction

AI in AEC

March 18–19, 2026

HELSINKI, FINLAND & VIRTUAL

Tuesday, March 17	Get together	19:00	21:00
Wednesday, March 18	Conference day 1	08:30	17:45
	Dinner	19:30	22:00
Thursday, March 19	Conference day 2	08:15	16:30

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Wednesday, March 18

BYSA 1-2

08:00 Coffee and Exhibition

08:30 Opening session

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

08:30 Opening of the AI in AEC 2026
Dr. Vesa Järvinen, AINS Group / A-Insinöörit, 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

09:40 Coffee and Exhibition

10:10 Session 1: AI Implementation

Chair:

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-Insinöörit, Finland

10:55 Cultivating AI Culture: How Bottom-Up AI Adoption Creates Lasting Transformation in Architecture
Nitsan Bartov*, **Nicole Vettore**** and **Ashkan Rezaee***, Henning Larsen, *Denmark **Italy

11:15 Blueprint for an AI Strategy | 5 Steps to Building a Practice-Ready Framework
Maria Makri, Dark Design Group, Norway

11:35 From Resistance to Resilience: Change Management for AI in Practice
Erik Stroemberg, HLB Lighting Design, United States

11:55 Real-World AI in AEC: A Year of Implementation at Proyectos Engineering
Joaquin Arocena, Proyectos Engineering, Uruguay

12:15 Lunch and Exhibition

13:15 Session 3: Multi-Agent AI and Workflows

Chair:

13:15 Opening of the Session

13:20 Multi-agent AI Orchestration for Building Management System (BMS) and Project Data Access in AEC
Petri Kasari, Sweco, Finland

13:40 ICE Bot: An AI Agent for Automated and Intelligent Coordination in VDC Projects
Alejandro Palpan, GEN+, Peru

14:00 AI-Driven Multi-Agent System for Automated Structural Engineering
Jani Nevalainen, AINS Group / A-Insinöörit, Finland

14:20 Multi-Agent Systems for Design and Construction Process Optimization
Mona Muehlich, Fraunhofer Institute for Solar Energy Systems ISE, Germany

14:40 The Era of Multi-Agents and Enhanced Collaboration at Scale for Construction Design
Henri Pitkänen and **Kim Nyberg,** Trimble, Finland

15:00 Multi-Agent AI with Emergent Communication for Adaptive Coordination in Circular Construction Logistics Networks
Dr. Nitin Harale, University of Borås, Sweden

15:20 Coffee and Exhibition

15:50 Session 5: Adopting AI Trends

Chair:

15:50 Opening of the Session

15:55 Generative AI for the Next Generation of Civil Engineers
Prof. Giuseppe Carlo Marano, Politecnico di Torino, Italy

16:15 **Keynote 2** **Bhragan Paramanantham,**
AECOM / Last Week in ConTech
From Curiosity to Capability: Upskilling Teams for AI Adoption in Construction

16:45 **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

17:45 End of the day 1

19:30 Dinner at restaurant 10. Kerros

BYSA 3


Dr. Sam Zolfagharian

10:10 Session 2: Demos

Chair:

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, Bentley Systems, United States

11:35 A.Engineer: Empowering Every Engineer with Generative AI
Richard Parker, Tyréns Group / AKT II, United Kingdom

11:55 Empowering Connected Design with Hypar.AI and Revit for Sustainable Development
Kuber Kuber, Mott Macdonald, India

12:15 Lunch and Exhibition

13:15 Session 4: AI Technology and Systems

Chair:

13:15 Opening of the Session

13:20 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

13:40 Multimodal AI for Construction Monitoring: Baselines, Limitations, and Integration Strategies from the NORMENG Project
Kristijan Vilibić, University of Zagreb, Croatia

14:00 Progress Monitoring of Different Elements of Bridges using UAVs and Photogrammetry
Aviran Brahma, Indian Institute of Technology Delhi, India

14:20 Arcyn: Explainable AI for Real-Time Building Code Compliance and Design Standards in BIM
Boris Levin and **Tom Batito,** Arcyn AI, EU

14:40 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

15:00 Agentic vs. Neural Network Comparison for Object Detection in 2D Geometry
Christopher Mouflard, MarkedUp, United States


Bhragan Paramanantham

PANEL DISCUSSION


Sam Saatchi


Kim Nyberg


Dr. Sam Zolfagharian

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Thursday, March 19

BYSA 1-2

07:45 Coffee and Exhibition

08:15 Session 6: Smart Buildings and Cities

Chair:

08:15 Opening of the Session

08:20 **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

08:55 Deep Reinforcement Learning-Based Real-Time Controller for Energy-Efficient Buildings
Mohammad Seyfi, LUT University, Finland

09:15 Talking to and Interpreting Buildings: GraphRAG, Semantic Graphs, and Data
Dr. Knut Nordanger, SINTEF Community, Norway

09:35 Data-Driven Spatial Optimization in Smart Buildings Using Digital Twin Feedback Loops and AI Simulation
Babak Ehsani, Istanbul Aydin University, Turkey

09:55 Coffee and Exhibition

10:25 Session 8: Sustainable Business Models

Chair:

10:25 Opening of the Session

10:30 AI for Productivity and Better Outcomes in the Built Enviroment
Bart Brink, TKI Bouw en Techniek, The Netherlands

10:50 AI Playbook for AEC-sector - Organisation tool to AI Localisation
Tommi Arola, Building information foundation RTS sr, **Joonas Lehtovaara** and **Pieti Marjavaara,** AINS Group / A-Insinöörit, Finland

11:10 Business Model Innovation of AEC Consultancies in the AI Era
Rich Synott, Arup, United Kingdom

11:30 Designing New Business Models in the AEC: AI as a Catalyst for Business Model Innovation and Transformation
Petra Svensson Gleisner, IHOP, **Ivana Kildsgaard,** Tengbom and **Caroline Bernelius Cronsioe,** BRIAB, Sweden

11:50 Standardized Data and Artificial Intelligence as Enablers of Data Economy in Building Services Engineering
Prof. Piia Sormunen and **Dr. Osku Torro,** Tampere University, Finland

12:10 Mind the Gap: Transforming AEC Project Data into a Living Knowledge Base
Pavlina Nikolova, Egnyte, United Kingdom

12:30 Lunch and Exhibition

13:30 Session 10: Computational Design

Chair:

13:30 Opening of Session

13:35 Enabling Data-Driven Design Through a Feedback-Driven Semantic Layer for AEC
Shicong Cao, DataDrivenAEC, Germany

13:55 Advancing AI-Driven Automation in Infrastructure Design
Ramiz Mohareb and **Dirk Münzner,** BuP. Boll Beraten und Planen, Germany

14:15 Quacky: Shaping the Future of Computational Design with AI
Kristoffer Berglund and **Tuomo Palomaa,** Ramboll, Finland

14:35 Enhancing Design Workflows with Computer Vision: Case Studies in Concrete and Wood Truss Analysis
Joonas Helminen, Sweco, Finland

14:55 From Markup to Verification: An AI Tool for Automated Rebar Drawing QA/QC
Manoj Bala Radhakrishna, struct.digital, United Kingdom

15:15 Predictive Analytics for Daylight Factor: Real-Time Machine Learning Integration in Architectural Workflows
Alejandro Pacheco Diéguez, Upskiller.xyz, Sweden

15:35 Coffee and Exhibition

15:50 Closing session

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

15:50 **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

16:20 Closing Words
Dr. Vesa Järvinen, AINS Group / A-Insinöörit, Finland

16:30 End of AI in AEC 2026

BYSA 3

Prof. Zoltán Nagy

08:50 Session 7: Climate Technology

Chair:

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 An AI-Driven WhatsApp-Based Chatbot for Participatory Disaster Awareness and Early Warning to Strengthen Disaster Risk Reduction
Dr. Amila Jayasinghe, University of Moratuwa, Sri Lanka

09:35 Master Thesis: AI-Driven Winter Road Maintenance: A Roadmap for Municipal Decision Support
Roope Palomaa, Ramboll, Finland

09:55 Coffee and Exhibition

10:25 Session 9: Conseptual Design

Chair:

10:25 Opening of the Session

10:30 Artificial Intelligence, Creativity, and Knowledge in Architectural Design
Prof. Marco Maretto, University of Parma, Italy

10:50 Predictive Design: Learning Spatial Priors to Guide Conceptual Site Planning
Dylan Wichman, Bentley Systems, United States

11:10 ArchiEstimate: AI-Powered Proposal Estimation for Architectural Practices
Kubilay Şahinler, Trelity, Turkey

11:30 AI in Architecture: Evaluating Current Tools and Advancing Prototype Development for School Building Design
Seeja Sudhakaran, University of West London, United Kingdom

11:50 AI-Enhanced Visualization for Early-Stage Residential Design
Dr. Mauri Laasonen. Tampere University of Applied Sciences, Finland

12:10 AI-Driven Circular Workspace Fit-Outs: Adaptability and Reversibility by Design
Dr. Mikhael Johanes, ETH Zurich, Switzerland

12:30 Lunch and Exhibition

13:30 Session 11: Construction

Chair:

13:30 Opening of the Session

13:35 AI Control Tower for AEC: From Estimates to Cost Certainty
Robin Patra, Keeley Companies, United States

13:55 From Checklists to Agents: AI for HSE in Construction
Guido Maciocci, AECFoundry, Italy

14:15 Beyond Rework: Predicting Construction Errors with AI
Dr. Roxi Mkhani, Kingston University London, United Kingdom

14:35 Reinventing Construction Estimation: AI-Powered Takeoffs to Solve the Industry's Labor Crisis
Tommy Whitehead, TomCo Solutions, United States

14:55 Bric-a-Brick: Vision-Driven Human–Robot Collaboration for Ergonomic Bricklaying
Prof. Pierpaolo Ruttico, INDEXLAB - Politecnico di Milano, Italy

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

15:35 Coffee and Exhibition

Prof. Sigrid Brell-Cokcan