

Conference Programme

IIKI 2026 and AI-DEFIT 2026 | Bled, Slovenia | 29 September–2 October 2026

Tuesday 29 September 2026

Time	Hall A	Hall B	Online Hall
16:00–19:00	Registration		
19:00–20:00	Informal get-together		

Wednesday 30 September 2026

Time	Hall A	Hall B	Online Hall
08:00–12:00	Registration		
09:00–09:15	Opening		
09:15–10:00	Keynote — Hans-Peter Schöner The Role of Artificial Intelligence for Tactical Safety: Focus on Cautious & Cooperative Vehicles		
10:00–10:45	Keynote — Roberto Renò An anatomy of asset returns		
10:45–11:15	Coffee break		
11:15–12:45	Connected and Automated Driving 1	Track A	Online Session 1 IIKI and AI-DEFIT
12:45–13:45	Lunch		
13:45–14:00	AI-Driven UAV Innovation: Integrating Industrial Practice and Industry-Education Collaboration for Full-Domain Unmanned Systems		
14:00–15:30	Connected and Automated Driving 2	Big Data and Artificial Intelligence 1	Online Session 2 IIKI and AI-DEFIT
15:30–16:00	Coffee break		
16:00–17:30	AI and Data Analytics for IoT	Big Data and Artificial Intelligence 2	—
19:00	Conference dinner		

Thursday 1 October 2026

Time	Hall A	Hall B	Online Hall
09:00–09:30	Keynote — Dražen Drašković Big Data and AI in Action: Decoding Hate Speech and Propaganda in Low-Resource Language		
09:30–10:00	Keynote — Ivana Luknar Socio-political effects of advanced technologies		
10:00–10:30	Keynote — Xin Wang Sequential Recommendation under Noisy and Biased User Behaviors		
10:30–12:00	E-Health, Mobile Health, Wellbeing, and Sport Technologies	Track B and Special Session	—
12:00–12:30	Coffee & Snack break		
12:30–14:00	Intelligent Sensing, Security, Privacy, Cloud and Edge Computing	Cyber-Physical Systems and Smart Environments for IoT	—

■ IIKI ■ AI-DEFIT ■ Online ■ Joint programme

Friday 2 October 2026

Time	
09:00–12:00	Choice between: Company visit Guided tour of Bled (Limited availability) Hiking tour around Bled Lake Visit Bled Vintgar Gorge (self-pay)

11:15–12:45 Connected and Automated Driving 1

Hall A | IIKI | Chair: Jaka Sodnik

Evaluating the Effects of Human–Machine Interfaces on Passenger Physiological Comfort in Highly Automated Vehicles

Timotej Gruden, Simon Pestotnik, Jaka Sodnik, Kristina Stojmenova Peččnik

Towards DSS-Specific Personas: A Methodology for Characterizing Decision Support System Users

André Netto, Dennis Paulino, Alexandre Valle, Marco Amaro Oliveira, Guillaume Inglese, Olivier Balet, Georgios Kolionis, Nikolaos Tsampieris, Hugo Paredes

An Interdisciplinary approach for Training, Evaluating and Monitoring CCAM Remote Operators

Djibrilla Amadou Kountche, Kristina Stojmenova, Gregor Papa, Orhan Behiç Alankuş, Elif Toy, Bartolomeo Silvestri

Explainable AI in Ambiguous Driving Scenarios: User Trust and Satisfaction in Visual, Textual and Auditory Interfaces Ignacio Alvarez, Tobias Seidl

Electrodermal Activity Tracks Simulator Sickness Within Individuals: A Pilot Study in an Automated Driving Simulator

Anastasis Litsas, James Lloyd, Georgios Kolionis, Kristina Stojmenova Peččnik, Simon Pestotnik, Jaka Sodnik

11:15–12:45 Track A

Hall B | AI-DEFIT | Chair: Junhuan Zhang

Can the Chinese stock market effectively price corporate innovation? Lixin Liu

Computing Power, Synthetic Data, and Welfare in the Generative-AI Economy Qing Chang, Danxia Xie, Longtian Zhang

Does Digital Finance Promote More Equal Distribution of Firm Size? Evidence from China Hongya Li, Fengxiao Shen

The Economic Growth Effect of Integrated Development of Education, Technology and Talents Yanfang Wang, Chunshuo Di, Haifeng Hu

11:15–12:45 Online Session 1

Online Hall | IIKI and AI-DEFIT | Chair: Grega Jakus

AutoDiscover-IoT: Validation-First Auditing of LLM-Generated Smart-Home Rule Hypotheses Sicheng Li, Zheng Dai

CR-DMLSA: Course Recommendation via Denoised Mamba and Low-Rank Decomposed Self-Attention Xue Shi, Xiaomei Yu, Jiachen Zheng, Yingying Ye, Jingyuan Feng, Tingting Zhao

Establishing a Multi-Dimensional Risk Framework over the Full Lifecycle of Stablecoins Xueli Li, Chen Yang, Tsanhua Chou, Hui Jin, Yitong Lin

EduEdgeAgent: An Edge-Based Large Language Model Agent and Curriculum-Aware Retrieval Method for Privacy-Controlled Vocational Information Technology Classrooms Yingying Ye, Xiaomei Yu, Xiangwei Zheng, Xue Shi, Jingyuan Feng, Tingting Zhao

A WeightedAdd Dual-Branch Network with a 3D CNN Stem for Hyperspectral Image Classification Tengyue Yang

14:00–15:30 Connected and Automated Driving 2

Hall A | IIKI | Chair: Kristina Stojmenova Pečečnik

TAPR: Temporal Activity-aware Route Planning for Multi-Stop Navigation Cansu Demir

Identifying Short-Term Driving Stability Patterns from Simulator Telemetry Helena Perić, Simon Dobrišek, Jaka Sodnik, Kristina Stojmenova Pečečnik

Multimodal Before-and-After Field Evaluation of a Curve-Guidance Infrastructure Intervention for Motorcyclists on a Rural Road

Grega Jakus, Uroš Brumec, Kristina Stojmenova Pečečnik, Jaka Sodnik

Challenges in Root Cause Analysis of Connected Autonomous Vehicle Accidents Mehmet Sinan Arca

An Echolocation-Inspired Call-and-Answer Loop for Situational Awareness in Automated Driving: EchoDrive

Julia Podlipensky, Vanessa Scherer, Monika Szuban, Ignacio Alvarez

14:00–15:30 Big Data and Artificial Intelligence 1

Hall B | IIKI | Chair: Ruidong Zhang

CAGE-Prompt: Constraint-Aware Black-Box Prompt Optimization Xin Li, Zheng Dai, Qianpu Jiang, Yufeng Shi

Dense Retrieval and Large Language Model Reranking for Temporal Legal Case Retrieval Pengyu Chen, Qian Lei, Haiwei Wu, Bo Xiang, Yajie He

LawEvolve: Statute-Grounded Calibration for Temporal Legal Judgment Prediction Qian Lei, Pengyu Chen, Haiwei Wu, Bo Xiang, Yajie He

Hierarchical Planning and Semantic-Aware Pruning for Long Text Generation 王鹏佳, 石玉峰, 戴政, 白伟龙

A Comparative Evaluation of Large Language Models for Context-Aware Hate Speech Detection in Low-Resource Languages

Janko Tufegđić, Matija Dodović, Uroš Radenković, Marko Mišić, Dražen Drašković

Agentic Retrieval-Augmented Generation: A Comprehensive Survey of Architectures, Methodologies, and Applications Zheng Dai

14:00–15:30 Online Session 2

Online Hall | IIKI and AI-DEFIT | Chair: Yanhui Guo

Behavioral-Biometric Fraud Detection for Real-Time Digital Payments: A Risk-Adaptive Fusion Framework and Cross-Corpus Proof of Concept Venu Sannamuri

AI-Native Economics: Machine Economy and Global Trade Logic Reconstruction under the Digital New Quality Productivity Framework Yan Jack

Adapting CPU Dynamic Scene Graph Generation for Resource-Constrained Edge Scenarios Xiaoyu Zhang, Sheharyar Khan, Li Pan, Guangxu Mei, Shijun Liu

From Extended Reality to Virtual-Physical Fusion: A Survey of Enabling Technologies and Human-Centric Applications

Yanzhen Wang, Qian Wang, Qing Zhao, Dong Tian, Chong Li, Guihua Shan

Security architecture of the European C-ITS trust framework Andrej Štern

FinTech and Firm Total Factor Productivity: The Within-Firm Resource Allocation Channel Guanhua Sun, Yinan Yu, Xin Jin

16:00–17:30 AI and Data Analytics for IoT

Hall A | IIKI | Chair: Qi Li

Capsule-Based Time Series Compression and Classification for Satellite IoT	Blaz Bertalanic, Lea Krizaj, Jakob Adam Šircelj, Carolina Fortuna
MineSeg: Parameter-Efficient Adaptation of Multimodal Large Language Models for Underground Mine Semantic Segmentation	于宗伯, Val Vec, Jibo Wang, Libin Jiao, Anton Kos
Fusing Knowledge Distillation and Patch-based Representation for Anomaly Detection	Yuhao Yan, Yexin Zhang, Qi Li, Lin Meng
An Efficient Feature-Fusion YOLO Detector for Steel Surface Defect Detection	Yexin Zhang, Yuhao Yan, Zhenling Su, Qi Li, Lin Meng
Understanding Communication Service Users' Satisfaction Using Hidden Markov Models	David Poznič, Andrej Košir
SparseRoute: Normal-Level Residual Strength Routing for Post-hoc 3D Anomaly Score Fusion	Haruhiro Takahashi, Ryuto Ishibashi, Lin Meng

16:00–17:30 Big Data and Artificial Intelligence 2

Hall B | IIKI | Chairs: Matija Dodović and Janko Tufegdžić

Mapping Cross-Firm Exposure with AI-Derived Business Networks: Evidence from Negative A-Share Announcements	Yatao Zhao, Xin Li, Yufeng Shi
Distributional Calibration of LLM-Based Agentic Populations for Complex Social System Simulation	Xiaowei Xu, Fantahun Zikie
Multi-Agent Team Size Optimization via Coordination-Cost and Capability-Redundancy Balancing	Qiurui Sun, Yang Shen, Huaide Ren, Dong Yang
Cognitive-Load-Aware Dynamic Allocation for Human-Multi-Agent Collaboration	Dong Yang, Yang Shen, Xueliang Lu, Rongfang Bie, Qiurui Sun
Foundation-Assisted Weakly Supervised Learning for Bridge Corrosion Semantic Segmentation	Yassine Himeur, Farah Gulzar, Mohammad Zitouni
Benchmarking Quantized LoRA for Vision Transformers on VTAB-1k	Hikaru Fukusaka, Lin Meng

Thursday 1 October 2026**10:30–12:00 E-Health, Mobile Health, Wellbeing, and Sport Technologies**

Hall A | IIKI | Chair: Sara Stančin

Applied Artificial Intelligence for Cardiovascular Disease: The STRATIFYHF Decision Support System	Nenad Filipovic
AI-Assisted Calibration of Electronic Apex Locator Thresholds Using Standardized Endodontic Impedance Phantoms	Matevž Kunaver, Danica Kunaver, Janja Jan, Árpád Bűrmen, Tadej Tuma
Wrist-Worn Multimodal Recognition of Desk-Based Learning and Working States	Jiasheng Yang, Jiale Ren, Qiu Xie, Ren Xu, Qi Li, Lin Meng
Automatic Detection of Corrupted Segments in Golf Swing Recordings	Val Vec, Sašo Tomažič, Anton Umek
A Single Hand-Mounted Inertial Measurement Unit for Automatic Front Crawl Stroke Phase Detection and Swimming Technique Assessment	Sara Stancin
Real-Time Haptic Feedback for Lumbar Rotation During Front Crawl: A Two-Participant Feasibility Study With and Without a Snorkel	Matevž Hribernik, Milivoj Dopsaj, Anton Kos

10:30–12:00 Track B and Special Session

Hall B | AI-DEFIT | Chair: Yezhou Sha

Forecasting Downside Betas with Machine Learning Models	Luo Jiawen
AI-generated Report, Information Risk and Stock Return	Yunchuan Sun, 徐茆, Tianxia Yang, Xiaoping Zeng, Haifeng Hu
Positive Put–Call Disparity in China's ETF Options: Directional Demand and T+1 Settlement	Yunchuan Sun, Heqing Huang
Insider trading Financial Forensics	Yezhou Sha, Jihong Chen
Recent Developments in agent-based modeling in cryptocurrency markets	Junhuan Zhang, Hui Zhang, Mingxin Wu, Yigang Wei

12:30–14:00 Intelligent Sensing, Security, Privacy, Cloud and Edge Computing

Hall A | IIKI | Chair: Timotej Gruden

Validation of One-Way Channel Reconstruction in Phase-Based Ranging	Andrej Hrovat, Timotej Mlakar, Grega Morano
A Real-Time IoT Architecture for Detecting Human Engagement with a Mobile Robot	Janez Zaletelj
Secure PDF Preview via Locked-Down Image Conversion: A Fast, Deployable Docker-Based Approach with System Font Support	Žiga Rojec, Iztok Fajfar, Janez Puhan, Sašo Tomažič, Arpad Bűrmen
Architectural Exploration and Performance Estimation of a Fully Pipelined FPGA Architecture for Informed-RRT*	Tomohiro Koizumi, Yuya Kudo, Qi Li, Tomonori Izumi

12:30–14:00 Cyber-Physical Systems and Smart Environments for IoT

Hall B | IIKI | Chair: Xiangbo Kong

An Agent-Based Model for Failure Recovery in Power Grids	Sanfan Liu, Sahra Sedigh Sarvestani, Ali R. Hurson
A Position on Efficient Global Perception for Indoor Drone Depth Estimation	Xiangbo Kong, Taiki Yamagiwa
Towards Intelligent Construction Safety Lighting: A Perspective on IoT Retrofitting, Localization, and Connectivity	Lukas Neumaier, Christoph Mayer, Albert Frank, Markus Dorn, Klaus Heimbuchner
Open-Source Multi-Layer Communication and Monitoring System for Search and Rescue Operations	Asad Saeed Khan, Johannes Haselberger, Laura Fiegler, Siegfried Roedel, Julian Wurm, Rainer Poeschl, Stefan Kunze