

**25th International Conference
Artificial Intelligence and Soft Computing**

Program

Zakopane, Poland, June 14-18, 2026

Program at a glance

Sunday, June 14	Monday, June 15	Tuesday, June 16	Wednesday, June 17	Thursday, June 18
	07:00-9:00 Breakfast, Room: Zakopane	07:00-8:30 Breakfast, Room: Zakopane	07:00-8:30 Breakfast, Room: Zakopane	07:00-11:00 Breakfast, Room: Zakopane
	9:00 - 9:15 Opening Ceremony, Room: Tatry Invited Talk, Chair: Leszek Rutkowski Witold Pedrycz	8:45 - 9:45 Jerzy Stefanowski Discussion panel 9:45 - 11:15 Discussion Panel: Do Large Language Models Show Functional Signs of Consciousness? Moderator: Włodzisław Duch	8:30 - 10:30 Session 7 - oral online (Room: Rysy) 8:30 - 10:30 Computer Vision, Image and Speech Analysis Session 8 - poster session (Room: foyer of Tatry) 8:45 - 9:45 Bioinformatics, Biometrics and Medical Applications	
	9:15 - 10:15 Myuhng-Joo Kim 10:15 - 11:15 Włodzisław Duch 11:15 - 11:20 Break 11:20 - 13:00 Session 1 - oral online (Room: Tatry) Various Problems of Artificial Intelligence 11:30 - 12:30 Session 2 - posters (Room: Foyer of Tatry) Neural Networks	11:15 - 11:20 Break 11:20 - 13:00 Session 4 - oral online (Room: Tatry) Various Problems of Artificial Intelligence 2 Session 5 - posters (Room: Foyer of Tatry) 11:30 - 12:30 Various Problems of Artificial Intelligence 3	10:00 - 11:00 Computer Vision, Image and Speech Analysis Session 9 - poster session (Room: foyer of Tatry) 10:45 - 12:45 Various Problems of Artificial Intelligence 4 Session 10 - oral online (Room: Rysy) 11:15 - 12:15 Artificial Intelligence in Modeling and Simulation	
	13:00 - 14:30 Lunch, Room: Zakopane Invited Talk, Chair: Janusz Kacprzyk, Room: Tatry 14:30 - 15:15 Amanda Horzyk 15:15 - 16:15 Wojciech Bożejko 16:00 - 16:20 Break Session 3 - posters (Room: Foyer of Tatry) 16:20 - 17:20 Various Problems of Artificial Intelligence	13:00 - 14:30 Lunch, Room: Zakopane Invited Talk, Chair: Wojciech Bożejko, Room: Tatry 14:30 - 15:15 Szymon Łukasik 15:15 - 16:00 Tomasz Stopa 16:00 - 16:20 Break Session 6 - posters (Room: Foyer of Tatry) 16:20 - 17:20 Fuzzy logic, metaheuristics, control	13:00 - 14:30 Lunch, Room: Zakopane 14:15 - 18:00 Sightseeing trip	
18:00 Welcome party Room: Zakopane	18:00 Social event, barbecue	19:00 Social event (Banquet), Room: Tatry	18:00 Farewell Dinner, Room: Zakopane	

Detailed Program

Sunday, June 14

checking in...

18:00

Welcome party

Room: Zakopane

Monday, June 15

07:00-9:00

Breakfast, Room: Zakopane

9:00 - 9:15

Opening Ceremony, Room: Tatry

Invited Talk, Chair: Leszek Rutkowski

Witold Pedrycz

9:15 - 10:00

Myuhng-Joo Kim - AI Risk Mapping Project by Korea AISI

10:15 - 11:15

Włodzisław Duch - Impact of artificial intelligence on science

11:20 - 13:00

Session 1 – oral online (Room: Tatry)

Session 1: Various Problems of Artificial Intelligence

Date/Time: 11:20 - 13:00, Mon., June 15, 2026

Room: Tatry, online session by Zoom, Chair:

AI Tool Use and Student Retention in Higher Education: A Quantitative Study of Vietnam and the Philippines Based on Tinto's Model

Bernie Fabito, Carolyn Matira, Jay-Ar Dimaculangan, Maira Lourdes Banaga, Maria Dolores Evangelista, Pia Jasmin Quizon, Ly Đan Thanh

Reproducible Carbon and Latency Benchmarking for LLM Inference: Toward a Standardized Evaluation Methodology and Open Tooling

Satya Karteek Gudipati, Sambasiva Rao Akkiseti, Akbar Mohammed, Naveen Anand Mishra, Gopikanth Ankam

Steerability of Instrumental-Convergence Tendencies in LLMs

Jakub Hoscilowicz

G-YOLO-Mamba: Integrating State Space Models with Ghost Convolution for Efficient Defect Detection in Industrial IoT

Khong Duy Tung, Nguyen Trung Dung, Nguyen Manh Hai, Dinh Duc Thanh, Phan Duy Hung

Impact of Color Variation on Robustness of Deep Neural Networks

Jun Wei, Fangfang Yang, Jing Yang, Xiaowei Su, Chengyin Hu, Yingying Zhao

Minimal-Redundancy Targeted Morphisms for Dynamic Transformer Network Structures

Maciej Trzciniński, Maciej Krzywda, Szymon Łukasik, Amir H. Gandomi

11:30 - 12:30

Session 2 – poster session

Session 2: Neural Networks

Date/Time: 11:30 - 12:30, Mon., June 15, 2026

Room: foyer of Tatry, poster session

Long-Context Encoder Models for Polish Language Understanding

Sławomir Dadas, Rafał Poświęta, Marek Kozłowski, Małgorzata Grębowiec, Michał Peretkiewicz, Paweł Klimiuk, Przemysław Boruta

Learning Diffusion Parameters in Graph-Based Recurrent Neural Networks from Social Network Data

Tomasz Gancarczyk, Vasyl Martsenyuk

Performance Analysis of Selected Gradient-Based Learning Algorithms and Regularisation Methods in Convolutional Neural Networks

Sebastian Górski, Juliusz Pańczak, Jarosław Protasiewicz

Large Language Models for Dialogue Graph Generation

Wojciech Janowski, Julian Szymański

MIOD: Mask-Iterative Object Detection

Adrian Jaśkowiec, Adrian Horzyk

Selective Interval Refinement for Feature-Weight Optimization in Analogy Associative Graphs

Szymon Jurecki, Jakub Komnata, Adrian Horzyk

Recurrent Neural Networks on Nonuniform Time Scales: A Lyapunov-Stable Training Framework for Financial Data

Jacek Kafel-Kania, Georgi Dimitrov, Vasyl Martsenyuk

DINO-A: Adapting Self-Distillation Vision Transformers to General Audio Representation Learning

Tomasz Radzikowski, Mateusz Modrzejewski, Przemysław Rokita

Teacher-student model verification based on guided Grad-CAM saliency maps for chest X-ray analysis

Grzegorz Sroka, Adrian Horzyk

Learning Regimes in Shallow Multilayer Perceptron Based on Gradient-Loss Coupling

Tomasz Zdziebło, Maciej Kusy

Regime-Aware Feature Selection for DDQN-Based Stock Market Trading with ARM and Sentiment Signals

Michał Zwierzyński, Adrian Horzyk

How to invent new Probabilistic & Radial-Based NN?

Alexander Georgiev

Evaluating Vector Quantisation for Mixed Tabular GANs

Bupe Chindongo, Siphesihle Sithungu

13:00 - 14:30

Lunch, Room: Zakopane

Invited Talk, Chair: Janusz Kacprzyk, Room: Tatry

14:30 - 15:15

Amanda Horzyk - The Next Frontier: Transparent, Explainable, and Contestable AI for Social Good

15:15 - 16:15

Wojciech Bożejko - The Next Research Frontier: When Quantum Computing Meets AI and Operations Research

16:00 - 16:20

break

Session 3 - posters (Room: Foyer of Tatry)

16:20 - 17:20

Session 3: Various Problems of Artificial Intelligence

Date/Time: 16:20 - 17:20, Mon., June 15, 2026

Room: foyer of Tatry, poster session

When Decisions Hesitate: Fusion of SVM and Random Forest Classifiers

Jakub Jaromin, Antoni Jaszcz, Piotr Żerdziński, Rafał Brociek, Jakub Jaromin, Antoni Jaszcz, Piotr Żerdziński, Rafał Brociek

A Deep Learning-based Hybrid Method for Network Flow Prediction

Katarzyna Nieszporek, Jarosław Bernacki, Kelton A.P. Costa

Improved SLIC via Hierarchical Neighbor Merging for Satellite Image Classification using a Graph Attention Network

Mariusz Pleszczyński, Adam Zielonka, Dawid Połap, Piotr Żerdziński

Transfer Learning for Sequential Neural Networks in Cybersecurity Detection via the Orange Cat Optimization Algorithm

Jakub Siłka, Marcin Woźniak, Antoni Jaszcz

RobustSkill: Inducing Executable Defense Skills for LLM Agents from Clean/Attack Contrastive Trajectories

Xinyu Geng and Leszek Rutkowski

Certified Robustness of Feature-Attribution Explanations under Bounded Perturbations

Wenhua Wang and Leszek Rutkowski

Hybrid Transformer-Mamba Architecture for enhanced patient-centric disease diagnosis

Michał Wieczorek, Marcin Woźniak, Katarzyna Prokop, Dawid Połap

Forecasting Particulate Matter with Neural Networks: Accuracy and Explainability using Meteorological Data

Jarosław Bernacki, Izabela Sówka

18:00

Social event, barbecue, venue: Zakopane and terrace, level -1

Tuesday, June 16

07:00-8:30

Breakfast, Room: Zakopane

Invited Talk, Chair: Jacek Mańdziuk, Room: Tatry

8:45 - 9:45

Jerzy Stefanowski - Beyond developing XAI methods: How to better evaluate them?

Discussion panel, Room: Tatry**9:45 - 11:15**Discussion Panel: Do Large Language Models Show
Functional Signs of Consciousness?*Moderator: Włodzisław Duch**Panelist: Adrian Horzyk, Christian Napoli, Paweł Holas, Wiesław Galus***11:15 - 11:20**

Break

11:20 - 13:00

Session 4 – oral online (Room: Tatry)

Session 4, Various Problems of Artificial Intelligence 2

Date/Time: 11:20 - 13:00, Tue., June 16, 2026

Room: Tatry, online session by Zoom, Chair:

Continual Learning at the Edge: Adapter Swapping with Performance Guarantees for Multilingual Assistants
Satya Karteek Gudipati, Sambasiva Rao Akkiseti, Akbar Mohammed, Naveen Anand Mishra, Gopikanth Ankam

Evaluating Deep Learning Models for Fault Location in Transmission Lines

Caio Goia Oliveira Galdino Prado, Juliano Henrique Foleis, Diego Bertolini Gonçalves, Leandro Augusto Ensina

Cost-Sensitive and Calibration-Aware Transformers for Detecting Environmental Misinformation

Chayma Sakrani, Boutheina Jilfi, Lamjed Ben Said

Evaluation of Retrieval Augmented Generation for Time Series Foundation Model

Martin T. Schorrardt, Sithara Pullayikodi, Michael Breuß, Ido Amihai

Spatio-Temporal Forecasting of Domestic Traffic in Metropolitan Areas

Adrian M.P. Brasoveanu, Lyndon J.B. Nixon, Arno Scharl

Applying Text Embedding Models for Efficient Analysis in Labeled Property Graphs

Michał Podstawski

Session 5 - poster session (Room: foyer of Tatry)

11:30 - 12:30

Session 5: Various Problems of Artificial Intelligence 3

Date/Time: 11:30 - 12:30, Tue., June 16, 2026

Room: foyer of Tatry, poster session

Traffic Sign Recognition with Adaptive Histogram Equalization, Multiple Filter Faces and Committee of Residual Networks

Guang Yi Chen, Adam Krzyżak, Hong Ran Xu

Handwritten Digits Recognition with Multiple Filter Faces, CNNs and Voting/Averaging Technique

Guangyi Chen, Adam Krzyzak, Ventzeslav Valev, Hong Ran Xu

Efficient Polish Domain-Specific Extractive Question Answering for Enterprise Knowledge Retrieval

Paweł Drozda, Krzysztof Ropiak, Arkadiusz Talun

Prediction of Future Customer Purchases in an Online Store Based on Web Session Behavioral Data

Marcin Gabryel, Milan Kocić, Aleksandra Gabryel

Combining Retrieval-Augmented Text Generation with LLMs for Reading Content Recommendations
Sooyeon Kim, Piotr Maciąg

RocketWord: A New Hybrid Kernel and Distance-Based Method for Time Series Classification
Michał Klimek, Agnieszka Jastrzębska

Performance Analysis of Classifiers Based on Computer Games Matches
Michał Machowski, Barbara Strug, Grażyna Ślusarczyk

The Impact of Task Information on AHP Results Generated by AI Language Models
Patrycja Miazek, Albert Rachwał, Rafał Stegierski, Paweł Kaczmarek

The System Posture Detection Supported by Choquet Integral in Federated Learning Model based on Interval-Valued Fuzzy Inference System
Barbara Pękala, Jarosław Szkoła, Dorota Gil, Dawid Kosior

13:00 - 14:30

Lunch, Room: Zakopane

Invited Talk, Chair: Wojciech Bożejko, Room: Tatry

14:30 - 15:15

Szymon Lukasik - Thinking Globally, Testing Locally: Lessons in AI Safety Evaluation from the Polish Perspective

15:15 - 16:15

Tomasz Stopa - When quantum computers become useful and how to be prepared

16:15 - 16:20

break

Session 6 - posters (Room: Foyer of Tatry)

16:20 - 17:20

Session 6: Fuzzy logic, metaheuristics, control
Date/Time: 16:20 - 17:20, Tue., June 16, 2026
Room: foyer of Tatry, poster session

IMPRINT: An Immune-Inspired Generative Framework for Mitigating Class Imbalance in Financial Fraud Detection

Adrian Diepeveen, Siphesihle Sithungu

Minimum Qubit Requirements for 5-city TSP QAOA

Igor Dudkiewicz, Wojciech Bożejko

EASE: An iterative solution evolution toolkit

Jozef Kováč, Tomáš Kadavý, Adam Viktorin, Roman Šenkeřík

Application of PSO Algorithm in Optimization of Data Filtering in Smart City Systems

Kamil Pipka, Marzena Banach, Tomasz Talaśka, Rafał Długosz, Witold Pedrycz

Hybrid Neighborhood Evaluation in Tabu Search and Simulated Annealing for the Permutation Flow Shop Problem

Remigiusz Wojewódzki, Wojciech Bożejko

RL-Driven Meta-Reasoning for BDI Agents

Aya Kherrou, Rawlings Ntassah, Marco Robol, Marco Roveri, Paolo Giorgini, Aya Kherrou, Rawlings Ntassah, Marco Robol, Marco Roveri, Paolo Giorgini

A Comparative Analysis of Beacon-Based and Leader-Follower UAV Swarm Coordination Using Particle Swarm Optimization

Jakub Walczak, Piotr Targowski, Szymon Chmielewski, Janusz Furtak

Artificial Immune System-Based Speech Classification for Spoken Digit Recognition

Johannes Van der Vyver, Duncan Coulter

19:00

Social event (Banquet), Room: Tetry

Wednesday, June 17

07:00-8:30

Breakfast, Room: Zakopane

8:30 - 10:30

Session 7: Computer Vision, Image and Speech Analysis

Date/Time: 8:30 - 10:30, Wed., June 17, 2026

Room: Tatry, online session by Zoom, Chair:

Evaluating Interactive Image Retrieval via Iterative Query Reformulation Based on Vision–Language Models
Joao Paulo Migliatti, Willian Paraguassu Amorim, Gabriel Santos Martins Dias, Pedro Henrique Bugatti, Cid Adinam Nogueira Santos, Priscila Tiemi Maeda Saito Saito

Deep Active Learning via Strategy Committees

Sebastiao V G Neto, Daniel M Galetti, Pedro H Bugatti, Cid A N Santos, Willian P Amorim, Priscila T M Saito,

Few-Shot Isolated Sign Language Recognition with Spatiotemporal SlowFast Prototypes

Michał Kalinowski, Bożena Kostek

Evolutionary Local Search with Continuous Encodings for Sorting Algorithm Synthesis in Poorly Conditioned Landscapes

Rafał Wolniak, Bożena Kostek

Polyp Detection with Deep Learning Models and Histogram Equalization in Colonoscopy Images

Luiz Lima, Diene Xie, Larissa Rosa, Vilmar Filho, Alisson Cardoso, Ricardo Franco

Effects of Quantization in Principal Component Analysis and Related Models

Jan Kalina

Cancer identification in Renal Corpuscle Histopathological Images

Guilherme Bononi, Fabiana Lima, Abygail Damico, Franklin Flores, Jacqueline Zanoni, Juliana Martins-Perles, Yandre Costa

Session 8 - poster session (Room: foyer of Tatry)

8:45 - 9:45

Session 8: Bioinformatics, Biometrics and Medical Applications

Date/Time: 8:45 - 9:45, Wed., June 17, 2026

Room: foyer of Tatry, poster session

Parallel Hybrid Vision Transformer-CNN Model for Detecting Aseptic Loosening in Hip Implants

Anton Myshenin, Grażyna Ślusarczyk

EEG Denoising on the SPD Manifold via Artifact-Informed Diffusion Modeling

Imad Eddine Tibermacine, Samuele Russo, Geral Cakoni, Simone Sangiorgio, Christian Napoli

Collective Learning in Myo-to-Gesture Devices through Cloud-Based Sequence Analysis

Uwe M. Borghoff, Klaus Buchenrieder, Uwe M. Borghoff, Klaus Buchenrieder

Path-Weighted Integrated Gradients for Interpretable Dementia Classification

Firuz Kamalov, Fadi Thabtah, Paweł Karczmarek, Rami Al-Hmouz

Cluster-Specialized XGBoost Pipeline for Early Detection of Alzheimer's Disease

Przemysław Orlikowski, Agata Kuziak, Adrian Horzyk

Detecting influential classifier features by testing their relationships with SHAP values

Wojciech Rafajłowicz, Ewaryst Rafajłowicz, Ewa Skubalska-Rafajłowicz, Sławomir Zmonarski

Learning Invariant Representations for Myoelectric Gesture Classification

Ronny Schenk, Klaus Buchenrieder, Uwe M. Borghoff

Wavelet packet transform energy features for pancreatic ductal adenocarcinoma classification in CT images

Grzegorz Surówka

Stability-Aware Analysis of Decision Tree Models for Small-Sample Biochemical Classification

Adam Kiersztyn, Ryszard Sitarz, Kaja Karakuła, Robert Karpiński, Anna Rymuszka, Dariusz Juchnowicz, Ewa Urbańska

Automatic detection of single EHT contractions and their frequency in 2D videos

Maciej Szymkowski

Session 9 - poster session (Room: foyer of Tatry)

10:00 - 11:00

Session 9: Computer Vision and Data Mining

Date/Time: 10:00 - 11:00, Wed., June 17, 2026

Room: foyer of Tatry, poster session

Vision-Language Interaction Pipeline for Simulated Healthcare Robots

Francesca Fiani, Maria Grazia Bocci, Janusz Starczewski, Christian Napoli

Explaining Domain Shift Effects in Coffee Leaf Rust Detection

Felipe Rohr Hoinoski, Tiago Funk, Marcelo de Souza, Clara dos Santos Becker

Explainable Multi-Scale Deep Learning for Three-Class Breast FNA Malignancy Grading

Łukasz Jeleń, Michał Jeleń

Fast and Deterministic Generation of Web-Navigable 360° Environments from Single Panoramas

Hana Novakova, Michal Pluhacek

A method based on State Space Models for medical image classification applied to histology

Leticia Pedrosa, Eduardo Paraiso, Alexei Machado

Weakly Supervised Deep Learning for Human Skin Segmentation

Anna Stachowicz, Michał Kawulok

Extending visual datasets with fine-grained classes via Grounding DINO: A case-study of license plates

Tomasz Zdziebło, Maciej Kusy, Jacek Mańdziuk

A Cyclic Sleep-Wake Training Scheme for Feedforward Neural Networks

Piotr Artiemjew, Jacek Szypulski

Pattern Difference to Determine Similarity of Binary Patterns

Soma Dutta, Jaewon Shin

On the Impact of Cluster Selection Methods on K-Means-Based Isolation Forest

Brygida Juszczyk, Paweł Karczmarek

Experimental Evaluation of Uncertain Knowledge-Based Outlier Detection

Marcin Kacprowicz

An Empirical Study of Hyperparameter Tuning in Isolation Forest

Kacper Romaniuk

Session 10 - online (Room: Rysy)

10:45 - 12:45

Session 10: Various Problems of Artificial Intelligence 4

Date/Time: 10:45 - 12:45, Wed., June 17, 2026

Room: Tatry, online session by Zoom, Chair:

Comparison of the effectiveness of MLP and KAN in the task of policy approximation in online deep reinforcement learning

Paweł Tomiło, Joanna Michałowska, Orest Kochan, Roman Kochan

Infrastructure Abstract Graph for Modeling and Optimization

Artur Basiura

Adaptive Regulation in Multi-Agent Reinforcement Learning: A Fuzzy Control Perspective on Cooperative Stability

Lucas G. M. de Castro, Agustin A. O. Diaz, Rodrigo C. Do Rosario

Machine Learning Models for Android Field-Test Result Prediction: A Comparative Study

Joao Brandao, Taynara Rocha, Almino Júnior, Maria Batista, Rafael Azevedo

VACTOR: A Distributed Actor-Based Variational Autoencoder for Detection of Temperature Hot Spots in Data Centres

Sokolo Matsolo, Duncan Coulter

Binary-Adapted Feature Selection for Predicting Taxpayer Acceptance Levels

Piotr Artiemjew, Małgorzata Renigier-Biżozor

Pandar128 dataset for lane line detection

Filip Beránek, Václav Diviš, Ivan Gruber

Session 11 - poster session (Room: foyer of Tatry)

11:15 - 12:15

Session 11: Artificial Intelligence in Modeling and Simulation

Date/Time: 11:15 - 12:15, Wed., June 17, 2026

Room: foyer of Tatry, poster session

Improved U-Net Based Models for HI Signal Denoising in Astronomical Observations

Wei Cheng, Jie Zhu

Detectable timing fingerprints of AI-generated HTTP traffic in container-based cyber range

Szymon Chmielewski, Piotr Targowski, Jakub Walczak, Janusz Furtak

Hybrid Rule-Guided Explainability and a Unified Faithfulness-Efficiency Index for Fraud Detection

Khulan Erdenebayar, Adrian Horzyk

KUME: K Universal Matrix Enhancement for Continual Learning

Matthew Fried

Dialogue Generation for StoryGraph-Based Narrative Games Using Large Language Models

Iwona Grabska-Gradzińska, Damian Kamiński

Deep Learning-Based Detection of Relics of Former Field Systems in the Białowieża Forest Using LiDAR Data – Preliminary Results

Kalina Juszczak-Janiszewska, Małgorzata Kubicka

The reciprocal kernel: modeling long-range temporal dependencies

Firuz Kamalov, Fadi Thabtah, Ahmed Abdelaziz Elsayed

Viscosity Estimation from Droplet Formation Dynamics Using Image-Based Feature Extraction

Mohamed Azouz Mrad

Introducing a Conditional 3D Dataset for Generative Models: A Case Study with GANs and Diffusion Model

Aleksander Ogonowski, Konrad Klimaszewski, Przemysław Rokita

No Extraction Archive Ransomware Detection Using Machine Learning
Piotr Targowski, Jakub Walczak, Szymon Chmielewski, Janusz Furtak

Hypergame Rationalisability: Solving Agent Misalignment In Strategic Play
Vince Trencsenyi

Delay-Line Transformer
Krzysztof Zając, Paweł Wachel

13:00 - 14:30

Lunch, Room: Zakopane

14:15

Sightseeing trip

A tour containing the most interesting corners of Zakopane, the winter capital of Poland.

Duration: 3-4 hrs. Please sign up for the guided tour at the ICAISC conference office.

18:00

Farewell Dinner, Room: Zakopane

Thursday, June 18

07:00-11:00

Breakfast, Room: Zakopane

Conference site

The ICAISC Conference is held in:

Bachleda Kasprowy Zakopane Hotel
ul. Szymaszkowa
34-500 Zakopane, POLAND
tel. (+48) 18 202 40 00

Useful phone numbers:

taxi in Zakopane: +48 18 196 25, Radio Taxi Giewont +48 18 196 26

Radio Taxi 919: +48 18 20 12 560

INTER Radio Taxi: +48 18 201 42 32

Zakopane tourist information: +48 18 20-122-11

Ambulance: 999, Police: 997 (or 112 from your mobile phone)

Mountain Rescue Team TOPR : 985 , +48 601 100 300

Krakow tourist information: +48 12 422 60 91, +48 12 421 77 06,
+48 12 433 73 10

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