

Session ID:

1

Abstract Title:

Opening Remarks

Author(s):

Alice Johnson, Bob Smith

Department:

Rafting

Abstract:

Welcome by the organizing committee and conference chair.

Session ID:

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Abstract Title:

Keynote Address

Author(s):

Catherine Lee

Department:

Rafting

Abstract:

Speaker: Prof. Jane Doe, University of Innovation.

Session ID:

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Abstract Title:

AI for Environmental Modeling

Author(s):

Daniel Patel, Ella Martinez

Department:

Rafting

Abstract:

Poster #A1 — Jane Doe (University of X) This poster presents a conceptual framework for integrating artificial intelligence techniques into large-scale environmental modeling workflows. The work explores how machine-learning–driven surrogate models can reduce computational costs while maintaining accuracy in climate simulations, hydrological forecasting, and atmospheric chemistry analysis. Preliminary tests demonstrate that AI-based approximation layers can accelerate model runs by an order of magnitude, making real-time scenario exploration more feasible for policy and research applications. The poster highlights open challenges, including model interpretability, uncertainty quantification, and scalable data pipelines.

Session ID:

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Abstract Title:

Neural Nets for Wildlife Tracking

Author(s):

Frank Nguyen, Grace Wong

Department:

Rafting

Abstract:

Poster #A2 — John Smith (Institute Y) This poster introduces a deep-learning workflow for automated wildlife tracking using camera-trap and drone-based imagery. The project evaluates convolutional and transformer-based neural network architectures for species detection, individual identification, and movement pattern analysis. A semi-synthetic dataset combining real field captures with augmented samples is used to improve robustness to occlusion, lighting variation, and partial visibility. Early benchmarks show significant improvements over traditional tracking methods, particularly in low-visibility conditions. The poster also discusses ethical data-collection practices and considerations for minimizing ecological disturbance.

Session ID:

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Abstract Title:

Smart Sensor Calibration

Author(s):

Hannah Kim, Isaac Reed

Department:

Rafting

Abstract:

Poster #A3 — Sara Lin (Tech U) This poster describes an adaptive calibration framework for distributed environmental sensor networks. The system employs lightweight machine-learning models that run directly on embedded sensor nodes to detect drift, adjust measurement baselines, and transmit correction factors to nearby devices. By using cross-sensor consensus and historical trend analysis, the approach reduces the need for manual recalibration in long-term deployments. Simulation results show improved stability in temperature, humidity, and air-quality readings across heterogeneous hardware configurations. The work lays the groundwork for resilient, self-managing sensor infrastructures.

Session ID:

100

Abstract Title:

dog

Author(s):

Jack Reddy

Department:

Rafting

Abstract:

yep![download-1.jpg](/static/uploads/abstract-images/80d9bb5eef5a49b6ad519aede4d7295e_download-1.jpg)