



August 14-16, 2026

Shanghai, China

## SESSION CHAIRS



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## Related Topics

Topics of interest include, but are not limited to:

- Data-driven methodologies for domain-specific AI systems
- Domain-aware data modeling, representation, and annotation
- Learning from limited, noisy, imbalanced, or heterogeneous domain data
- Synthetic data generation and data augmentation for domain applications
- Data quality, data governance, and lifecycle management in AI systems
- Domain-adaptive and task-specific learning models
- Knowledge-enhanced and constraint-aware learning using domain data
- Explainable and trustworthy AI for domain AI systems
- System-level design and integration of domain AI solutions
- Deployment, monitoring, and validation of domain AI systems
- Evaluation methodologies for data-driven AI systems in real-world domains
- Edge and embedded AI systems under domain data constraints

## Publication



Accepted papers will be published in PRAI 2026  
Conference Proceedings, and submitted for inclusion into  
IEEE Xplore and indexed by EI Compendex & Scopus.

## Submission Way

## Submit Online:

<https://www.easychair.org/conferences/?conf=prai2026>

(Please choose Special Session 8)

## Paper Templates:

Latex: <https://www.prai.net/ieee-conference-latex-template.zip>

Word: <https://www.prai.net/instruct8.5x11x2.doc>

For General inquire please contact: [praiconf@outlook.com](mailto:praiconf@outlook.com)

For submission question please contact: [praiconf@foxmail.com](mailto:praiconf@foxmail.com)

## Important Date

Final Submission Deadline	July 05, 2026
Final Notification Date	July 20, 2026
Final Registration Deadline	July 25, 2026

\* The review period for submissions is typically one month.

# 2026 IEEE 9th International Conference on PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE

## SPECIAL SESSION 08

### Data-Driven Domain AI Systems: Models, Architectures, and Applications

Data-Driven Domain AI Systems emphasize building complete AI systems in which domain data guide system design, learning workflows, and decision-making processes throughout the entire system lifecycle. Rather than focusing on specific model paradigms such as generative or multimodal large models, this session highlights system-level methodologies that integrate domain-aware data modeling, task-oriented learning, deployment, and validation. The session targets real-world domain scenarios where AI systems must operate under strict constraints, limited or heterogeneous data, and strong requirements for reliability, robustness, and interpretability. By focusing on data-driven system design across multiple domains, this session complements application-oriented and model-centric sessions and provides a unified platform for system-level AI research with demonstrated practical impact.