

CONFERENCE

IN PERSON

ACTIVE

FCSAI 2026 : 13th International Conference on Foundations of Computer Science & Artificial Intelligence

LOCATION	SUBJECT / TOPIC	EVENT DATES	LAST UPDATED
Australia	General	August 15-16, 2026	7th July, 2026

DESCRIPTION

13th International Conference on Foundations of Computer Science & Artificial Intelligence (FCSAI 2026)

August 15 ~ 16, 2026, Melbourne, Australia

Hybrid -- Registered authors can present their work online or face to face.

Scope & Topics

13th International Conference on Foundations of Computer Science & Artificial Intelligence (FCSAI 2026) is a premier global forum dedicated to advancing the theoretical, methodological, and foundational aspects of Computer Science and Artificial Intelligence. Building on the legacy of the CST conference series, FCSAI 2026 expands its scope to embrace the rapidly evolving landscape of AI, machine learning, and intelligent systems, while maintaining a strong commitment to the core principles of theoretical computer science.

The goal of FCSAI 2026 is to bring together researchers, practitioners, and innovators from academia and industry to deepen the understanding of modern computational foundations and intelligent technologies. The conference aims to foster collaboration across disciplines, promote rigorous scientific exchange, and highlight cutting edge developments that shape the future of computing and AI.

Authors are invited to contribute high quality research articles, case studies, survey papers, and industrial experiences that demonstrate significant advances in foundational computer science, artificial intelligence theory, and their emerging intersections. Submissions may address, but are not limited to, the topics listed below.

Topics of interest include, but are not limited to, the following Algorithms, Complexity and Optimization Theory

Algorithms and Data Structures
Approximation Algorithms and Hardness of Approximation
Fine Grained Complexity

KEY DEADLINES

Submission	11th Jul, 2026
Notification	25th Jul, 2026
Camera Ready	1st Aug, 2026
Conference	15th Aug, 2026

OFFICIAL LINKS

[Visit Submission Page](#)

CALL FOR PAPER URL

<https://callforpaper.org/cfp/call-for-papers-fc-sai-2026>

Computational Complexity Theory
Communication and Information Complexity
Randomized and Probabilistic Algorithms
Streaming and Sublinear Time Algorithms
Dynamic Algorithms and Data Structures
Modern Graph Algorithms (connectivity, flows, cuts, near linear time)
Discrepancy Theory and Combinatorial Optimization
Spectral Graph Theory
High Dimensional Probability in Algorithms
Beyond Worst Case Analysis
Smoothed Analysis
Algebraic and Symbolic Computation
Computational Geometry
Large Scale and Uncertainty Aware Optimization
Energy Efficient and Resource Aware Algorithms
Algorithmic Foundations of AI (search, planning, heuristics)
Computational Models of Intelligent Behavior

Theoretical Artificial Intelligence

Foundations of Artificial Intelligence
Computational Models of Intelligence
Multi Agent Systems and Game Theoretic AI
Planning, Search and Decision Making Theory
Knowledge Representation and Reasoning
Logic Based AI
Neurosymbolic AI Theory
AI Alignment and Safety Theory
Interpretability and Explainability Theory
Computational Cognitive Science
Theory of Intelligent Agents
Symbolic, Subsymbolic and Hybrid AI Models

Machine Learning Theory, Optimization and Foundations of AI

Computational Learning Theory
Statistical Learning Theory
Optimization Theory for ML
Implicit Bias of Gradient Descent
Generalization in Overparameterized Models
Computational Statistical Tradeoffs
Reinforcement Learning Theory
Theory of Foundation Models and Large Scale Neural Networks
Adversarial Learning and Robustness
Algorithmic Fairness and Transparency
High Dimensional Geometry for ML
Causal Inference Theory
Clustering Theory and High Dimensional Data Analysis
Explainability, Interpretability and Ethical Foundations of AI
Theoretical Guarantees for Large Language Models
Learning Dynamics and Emergent Behaviors in AI Systems

Quantum Computing and Quantum Information Theory

Quantum Algorithms and Quantum Advantage
Quantum Complexity Theory
Quantum Error Correction and Fault Tolerance
Hamiltonian Complexity
Quantum Simulation Algorithms
Quantum Machine Learning Theory
Quantum Cryptography and Cryptanalysis
Quantum Information Theory

Cryptography, Security and Information Theory

Cryptography (Classical and Post Quantum)
Lattice Based Cryptography
Secure Multiparty Computation
Zero Knowledge Proofs and Interactive Proofs
Pseudorandomness and Derandomization
Coding Theory and Error Correcting Codes
Differential Privacy Theory
Functional Encryption and Advanced Primitives
Information Theoretic Security
Blockchain and Consensus Theory
Cryptography from Worst Case Assumptions
Theoretical Cryptanalysis (including quantum)
Security Foundations for AI Systems

Logic, Semantics, Verification and Automated Reasoning

Program Semantics and Verification
Formal Methods and Model Checking
Type Theory and Proof Theory
SAT/SMT Solving Theory
Proof Complexity
Automated Reasoning
Symbolic Execution Theory
Formal Verification of ML Systems
Verified AI and Safety Critical Reasoning
Logical Foundations of AI Planning and Inference

Distributed, Parallel and Networked Computation

Distributed Algorithms and Complexity
Parallel Computing Theory
Local Algorithms and Graph Models
Congested Clique and Modern Distributed Models
Fault Tolerant Distributed Systems
Consensus and Synchronization
Distributed Lower Bounds
Distributed Optimization
Federated Learning Theory
Dynamic Graph Algorithms

Algorithmic Foundations of Cloud–Edge Systems
Distributed AI and Multi Agent Coordination

Interdisciplinary and Computational Sciences

Theory applied to natural sciences, social systems and economics.
Algorithmic Game Theory and Mechanism Design
Computational Economics
Computational Social Science
High Dimensional Geometry and Metric Embeddings
Statistical Physics Methods in Algorithms
Computational Biology (theoretical foundations)
Computational Chemistry and Physics (complexity theoretic framing)
Foundations of Data Science
Ethical and Societal Aspects of Algorithms
Energy Aware and Sustainability Driven Computation
AI for Scientific Discovery (theoretical foundations)

Paper Submission

Authors are invited to submit papers through the conference

Submission System by July 11, 2026. Submissions must be original and should not have been published previously or be under consideration for publication while being evaluated for this conference.

The proceedings of the conference will be published by The proceedings of the conference will be published by Computer Science Conference Proceedings (H index 46) in Computer Science & Information Technology (CS & IT) series (Confirmed).

Selected papers from **CST 2026**, after further revisions, will be published in the special issue of the following journals.

International Journal of Computer Science & Information Technology (IJCSIT)

International Journal of Information Technology Convergence and Services (IJITCS)

International Journal of Computer Science, Engineering and Applications (IJCSEA)

International Journal in Foundations of Computer Science & Technology (IJFCST)

Information Technology in Industry (ITII)

Important Dates

Submission Deadline: July 11, 2026

Authors Notification : July 25, 2026

Final Manuscript Due : August 01, 2026

Co - Located Event

5th International Conference on Software Engineering and Automation (SEAU 2026)

15th International Conference on Information Technology Convergence and Services (ITCS 2026)

7th International Conference on VLSI & Embedded Systems (VLSIE 2026)

5th International Conference on NLP and Machine Learning Trends (NLMLT 2026)

17th International Conference on Database Management Systems (DMS 2026)

7th International Conference on Cloud and Big Data (CLBD 2026)

7th International Conference on Networks & IOT (NeTIOT 2026)

******* The invited talk proposals can be submitted to**

cst@cst2026.org