

Topics of Interest

High-quality original submissions are welcome from all areas of contemporary AI; the following list of topics is indicative only.

- Agents & Multi-agent systems
- Agent Communication Languages & Protocols
- Argumentation

- Auctions & Mechanism Design
- Coalition Formation
- Computational Social Choice
- Cooperation & Coordination
- Game-Theoretic & Economic Foundations
- Negotiation
- Programming Languages & Environments for MAS
- Trust

- Case-Based Reasoning
- Adaptation
- Analogical Reasoning

- Applications of CBR
- Case Representation
- Case Retrieval
- Explanation

- Cognitive Modeling & Interaction
- AI & Creativity
- Ambient Intelligence
- Artificial Life
- Emotions

- Human-Computer Interaction
- Human Experimentation
- Instruction & Teaching
- Intelligent User Interfaces
- Memory
- Neuroscience
- Perception & Performance
- Personalisation & User Profiling
- Philosophical Foundations
- Recommender Systems

- Skill Acquisition & Learning
- User & Context Modelling
- Usage Analysis & Usage Mining
- Web Usability & Accessibility

- Constraints & Search
- Anytime Search
- Constraint Optimisation
- Constraint Programming
- Constraint Propagation
- Constraint Satisfaction
- Distributed Constraint Solving
- Global Constraint

- Logic & Constraint Programming
- Modelling

- Satisfiability
- Soft Constraints
- User Interaction

- Knowledge Representation and Reasoning
 - Abductive & Inductive Reasoning
 - Answer Set Programming
 - Automated Theorem Proving
 - Belief Revision
 - Causality
 - Common-Sense Reasoning
 - Decision Making
- Description Logics
 - Logical Foundations
 - Logic Programming
 - Modal Logics
 - Model Checking
 - Non-Classical Logics
 - Nonmonotonic Reasoning
 - Ontologies & Ontology Languages
 - Preferences
- Reasoning about Actions & Change
 - Resource-Bounded Reasoning
 - Semantic Web
 - Spatial Reasoning
 - Temporal Reasoning
 - Verification & Validation
- Machine Learning
 - Adaptive Systems
 - Bayesian Learning
 - Clustering
 - Data Mining
 - Decision Tree & Rule Learning
 - Dimension Reduction
 - Ensemble Methods
 - Evolutionary Computing
 - Information Extraction
 - Kernel Methods
 - Knowledge Discovery
 - Machine Learning Applications
 - Multiagent Learning
 - Neural Networks
 - Reinforcement Learning
 - Unsupervised Learning
- Model-Based Reasoning
 - Causal Reasoning
 - Diagnosis, Testing & Repair
 - Design & Configuration
 - Model-Based Reasoning & Diagnosis
- Model-Based Systems
 - Qualitative Reasoning
 - Real-Time Systems
 - Natural Language Processing
 - Computational Morphology & Parsing
 - Computational Semantics & Pragmatics
 - Corpus-Based Language Models
 - Evaluation Methods for NLP
 - Intelligent Conversational Agents
 - Intelligent Information Retrieval
- Lexicons & Ontologies
 - Linguistic Knowledge Acquisition & Discovery

- Machine Learning for NLP
- Opinion Mining & Sentiment Analysis
- Paraphrasing & Textual Entailment
- Psycholinguistics
- Semantic Search & Question Answering
- Spoken & Multimodal Dialogue Systems
- Text Mining & Information Extraction
- Perception and Sensing
- Active Vision & Sensory Planning
- Image Processing
- Model-Based Vision
- Motion, Flow & Tracking
- Object Recognition
- Programming Environments & Languages
- Statistical Models & Visual Learning
- Task Planning & Execution
- Planning and Scheduling
- Applications of Planning & Scheduling
- Classical Planning
- Constraint-Based Planning & Scheduling
- Heuristics for Planning
- Hierarchical Planning & Scheduling
- Interactive Planning & Scheduling
- Knowledge Engineering for Planning & Scheduling
- Markov Decision Processes
- Planning & Learning
- Planning with Incomplete Information
- Planning with Uncertainty
- POMDPs
- Temporal Planning & Scheduling
- Robotics
- Autonomous Systems
- Estimation & Learning for Robotic Systems
- Exploration
- Human-Robot Interaction
- Localisation
- Motion Planning
- Multi-Robot Systems
- Robot Architectures
- Robot Navigation
- Robot Programming Environments & Languages
- Search & Rescue Robots
- Sensory Planning
- Service Robots
- Task Planning
- Viewpoints & Modality Selection
- Uncertainty in AI
- Bayesian Networks
- Belief Revision & Update
- Conceptual Graphs
- Graphical Models
- Probabilistic Reasoning
- Ranking
- Applications of AI
- AI & Autonomous Vehicles
- AI & Education
- AI & Life Sciences/Medicine

- AI & the Internet
- AI & the Semantic Web
- AI & Sensor Networks