

AIMS AND SCOPE

The International Journal "Transactions on Case-Based Reasoning" is a periodical appearing once a year. Topics of interest include (but are not limited to):

- Case and knowledge representation, acquisition, modeling, visualization, maintenance and management for CBR
- CBR system design issues (e.g., indexing, retrieval, similarity assessment and adaptation)
- System architectures and integration of CBR with other methods
- Collaborative agent architectures involving CBR
- CBR for signals, images, video, audio and text
- Similarity assessment for signals, images, video, audio, and text
- Case representation and case mining for multimedia data
- Retrieval and indexing of signals, images, video, audio and text
- Analogical reasoning, cognitive models, and creative reasoning approaches based on CBR
- Formal, empirical, and psychological evaluations of CBR models and systems
- Methodologies for developing CBR applications
- Lazy-learning, instance-based learning and case-based learning
- Case-based planning topics including plan adaptation, retrieval from a plan library and plan similarity
- Conversational CBR for multimedia retrieval systems
- Meta-learning for model improvement and parameter setting for processing with CBR
- Incremental model improvement by CBR
- Case base maintenance for systems with multimedia data
- Case authoring
- Life-time of a CBR system
- Measuring coverage of case bases
- Analogical reasoning for computer vision, signal processing and others
- CBR in robot navigation
- CBR for medical applications using multimedia data
- CBR for biotechnological applications using multimedia data
- CBR for chemical applications using multimedia data
- Ontology learning with CBR
- CBR for image processing applications
- CBR for video application
- Case-based approaches to scheduling, design and robot navigation
- CBR and knowledge discovery, data mining, text mining
- CBR software reuse and engineering redesign
- Explanations, Context, and confidence in CBR
- Peer-to-Peer Networks and CBR
- CBR in the Semantic Web
- CBR foundations
- Conversational CBR
- Textual CBR
- Distributed CBR
- CBR and uncertainty
- CBR in design, diagnosis, health, law, education
- Knowledge management in CBR, case and experience-based knowledge management
- Case-based recommender systems
- Applications of CBR (e.g., in customer support, education, electronic commerce, pattern recognition, image processing, legal reasoning, manufacturing and medicine)
- Adaptive interfaces, user modeling, customization & personalization using CBR
- Computer models of case-based argumentation
- Fielded applications of CBR