

Call for Papers ([PDF](#)): 2005 IEEE-ICDM Workshop on MultiAgent Data Warehousing and MultiAgent Data Mining

Houston, Texas, USA, November 27, 2005

<http://tinman.cs.gsu.edu/~cscyntx/ICDM-MADW-MADM2005.htm>

2005 IEEE-ICDM Workshop on MultiAgent Data Warehousing and MultiAgent Data Mining (MADW-MADM2005) in conjunction with the 2005 IEEE International Conference on Data Mining (<http://www.cacs.louisiana.edu/~icdm05/>) is to bring together researchers from diverse areas including data mining, data warehousing, multiagent systems, artificial intelligence, computational intelligence, machine learning, neuroscience, robot control, and other related areas to lay out the foundation for MADW and MADM. Submissions are solicited from both academia and industries.

Biological systems such as brains have enormous capabilities in information processing and coordinated knowledge discovery. One challenging issue facing data mining and knowledge discovery today is understanding how the enormous amount of radio, audio, spacio-temporal, and bioinformation is processed by the massive number of neural agents of a brain system and how multiple agents can be coordinated for information processing and knowledge discovery at the neural or system levels.

MADM is evidently a key concept in coordinated explorative knowledge discovery. Likewise, MADW is a necessity when a massive number of autonomous and semi-autonomous agents/miners are involved, especially when orthogonal MADW is feasible with neural-fuzzy-genetic agents in uncertain high-dimensional explorative learning or mining spaces. It is expected that MADW, MADM, and the interplay between the two will be inevitable in the foreseeable future.

Please email your paper (a pdf file) to any co-chair of the workshop. Workshop papers should be prepared in the same format as ICDM conference papers (see more at <http://www.cacs.louisiana.edu/~icdm05/>). Simultaneous submission to other workshops and conferences are not allowed.

Important Dates:	Submission: Sept. 1, 2005	Acceptance: Oct. 1, 2005	Final camera ready: Oct. 15, 2005
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Technical issues include (but not limited to)

- (1) Necessity, applicability, and feasibility analysis for MADW and MADM in different domains;
- (2) Coordinated computational intelligence (CCI) and distributed artificial intelligence (DAI) in MADW and MADM;
- (3) Algorithms and methods for MADM and MADW;
- (4) Agent association vs. multirelational association;
- (5) Schemas and architectures of MADW;
- (6) Query languages for OLAP and OLAM with MADW and MADM;
- (7) Mining agent association rules in 1st-order predicate calculus;
- (8) Coordination protocols for collaborative knowledge discovery with MADW/MADM;
- (9) Agent discovery, law discovery, self-organization, and reorganization in MADW and MADM;
- (10) Full autonomy as a result of coordination of semiautonomous agents;
- (11) Reinforced knowledge discovery with the interplay of MADW and MADM;
- (12) Agent similarity and orthogonal MADW;
- (13) MADW and MADM for brain modeling;
- (14) MADW and MADM for applications in security, bioinformatics, biomedicine, semantic Web, e-Business, Web service, Web mining, grids, wireless networks, mobile networks, Ad hoc networks, sensor networks, flexible engineering, robot control, and other suitable domains.

Honorary Chair		
M. N. Huhns, University of South Carolina, USA		
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