

Joseph Halpern

Professional Activities

- External reviewer, University of Calgary computer science department review
- Program committee member for
- Twenty-Fifth National Conference on Artificial Intelligence (AAAI 2008), Nectar Track
- Third World Congress of Game Theory (2008)
- Twenty-Fourth Annual Conference on Uncertainty in Artificial Intelligence (2008) (area chair)
- Ninth ACM Conference on Electronic Commerce, 2008
- Eleventh International Conference on Principles of Knowledge Representation and Reasoning (KR 2008), 2008

Publications:

- J. Y. Halpern and R. Pucella, Characterizing and reasoning about probabilistic and non-probabilistic expectation, *Journal of the ACM* 54:3, 2007.
- J. Y. Halpern and L. C. Rego, Characterizing the NP-PSPACE gap in the satisfiability problem for modal logic, *Journal of Logic and Computation* 17:4, pp. 795-806, 2007.
- F. C. Chu and J. Y. Halpern, Great expectations. Part I: On the customizability of generalized expected utility, *Theory and Decision* 64:1, 2008, pp. 1-36
- J. Y. Halpern and L. C. Rego, Interactive unawareness revisited, *Games and Economic Behavior* 62:1, 2008, pp. 232--262.
- J. Y. Halpern and V. Weissman, A formal foundation for XrML, *Journal of the ACM* 55:1, 2008.
- H. Chockler, J. Y. Halpern, and O. Kupferman, What causes a system to satisfy a specification?, *ACM Transactions on Computational Logic* 9:3, 2008.
- D. J. Martin, J. Gehrke, and J. Y. Halpern, Toward expressive and scalable sponsored search auctions, *Proc. 24th International Conference on Data Engineering*, 2008, pp. 237-246.
- Lower bounds on implementing robust and resilient mediators, *Proc. Fifth Theory of Cryptography Conference*, 2008, pp. 302-319 (with I. Abraham and D. Dolev).
- J. Y. Halpern, Computer science and game theory: A brief survey, *The New Palgrave Dictionary of Economics*, (S. N. Durlauf and L. E. Blume, eds.) Palgrave MacMillan, 2008.

Lectures:

- Plausibility Measures: A Uniform Approach to Counterfactual Reasoning, Default Reasoning, and Belief Change - What If? So What? (Workshop on Causality and Counterfactuals), Rotterdam, Netherlands (December 2007)
- Distributed Computing Meets Game Theory: Robust Mechanisms for Secret Sharing and Implementation with Cheap Talk - ETH, Zurich (June, 2008)
- Redoing the Foundations of Decision Theory
 - o International Congress of Philosophy, Logic, Methodology, and Philosophy of Science, Beijing (August 2007).
 - o Hong Kong University of Science and Technology (August, 2007)

- o University of Kentucky, Computer Science Colloquium (January, 2008)
 - o University of Indiana Cognitive Science Colloquium (March, 2008)
- Constructive Decision Theory
 - o Cowles Conference on Choice, Contracts, and Computation, New Haven (June 2008)
 - o Workshop on Bayes and Savage, Bergen, Norway (June, 2008)
- Reasoning About Knowledge in Multiagent Systems –
 - o Workshop on Information, Control, and Communication, Berlin (April, 2008)
- Causality, responsibility, and blame: a structural-model approach –
 - o University of Indiana (March, 2008)
- Beyond Nash equilibrium: solution concepts for the 21st century –
 - o EPFL, Lausanne, Switzerland (June, 2008)