

AN INTEGRATED APPROACH TO DECISION MAKING UNDER UNCERTAINTY

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Papers published in refereed journals during period 1 Oct ‘00 - 30 Sep ‘01:

- Pearl, J., “The logic of counterfactuals in causal inference,” *Journal of American Statistical Association*, Vol. 95, No. 450, 428–435, 2000.
- Tian, J. and Pearl, J., “Probabilities of causation: Bounds and identification,” *Annals of Mathematics and Artificial Intelligence*, Vol. 28, 287–313, 2000.
- Pearl, J., “On two pseudo-paradoxes in Bayesian analysis,” *Annals of Mathematics in artificial Intelligence*, Special Issue on Representations of Uncertainty, Vol. 32, 171–177, 2001.

Contributed Conference Presentations during 1 Oct ‘00 - 30 Sep ‘01:

- Tian, J. and Pearl, J., “Probabilistic of causation: Bounds and identification,” in Craig Boutilier and Moises Goldszmidt (Eds.), in *Proceedings of the Sixteenth Conference on Uncertainty in Artificial Intelligence*, San Francisco, CA: Morgan Kaufmann, 589–598, 2000.
- Tian, J. “A branch-and-bound algorithm for MDL Learning Bayesian Networks,” in Craig Boutilier and Moises Goldszmidt (Eds.), in *Proceedings of the Sixteenth Conference on Uncertainty in Artificial Intelligence*, San Francisco, CA: Morgan Kaufmann, 580–588, 2000.
- Bonet, B., “A Calculus for Causal Relevance,” in *Proceedings of the Seventeenth Conference on Uncertainty in Artificial Intelligence*, San Francisco, CA: Morgan Kaufmann, Morgan Kaufmann, 40–47, 2001.
- Bonet, B., “Instrumentality Tests Revisited,” in *Proceedings of the Seventeenth Conference on Uncertainty in Artificial Intelligence*, San Francisco, CA: Morgan Kaufmann, Morgan Kaufmann, 48–55, 2001.

Pearl, J., “Direct and Indirect Effects,” in *Proceedings of the Seventeenth Conference on Uncertainty in Artificial Intelligence*, San Francisco, CA: Morgan Kaufmann, 411–420, 2001.

Tian, J. and Pearl, J., “Causal Discovery from Changes,” in *Proceedings of the Seventeenth Conference on Uncertainty in Artificial Intelligence*, San Francisco, CA: Morgan Kaufmann, 512–521, 2001.

Pearl, J., “Causal Inference in Statistics: A Gentle Introduction,” in *Computing Science and Statistics, Proceedings of Interface ‘01*, Volume 33, 2001.

Halpern, J.Y. and Pearl, J., “Causes and explanations: A structural-model approach – Part I: Causes,” in *Proceedings of the Seventeenth Conference on Uncertainty in Artificial Intelligence*, San Francisco, CA: Morgan Kaufmann, 194–202, 2001.

Halpern, J.Y. and Pearl, J., “Causes and explanations: A structural-model approach – Part II: Explanations,” in *Proceedings of IJCAI*, San Francisco, CA: Morgan Kaufmann, 27–34, 2001.

Books or Book chapters published during period 1 Oct ‘00 - 30 Sep ‘01:

Pearl, J., *Causality: Models, Reasoning and Inference* Cambridge University Press, 2000.

Pearl, J. “Bayesianism and Causality, or, Why I am Only a Half-Bayesian” In D. Corfield and J. Williamson (Eds.) *Foundations of Bayesianism*, Applied Logic Series Volume 24, Kluwer Academic Publishers, the Netherlands, 19–36, 2001.

Patents during 1 Oct ‘00 - 30 Sep ‘01 (filed; granted):

N/A

Honors received by any ONR-supported personnel during 1 Oct ‘00 - 30 Sep ‘01:

J. Pearl’s book, *Causality: Models, Reasoning and Inference*, has won the Lakatos Award for 2001. The Lakatos is awarded each year by the London School of Economics for the most outstanding contribution to the philosophy of science.

B. Bonet’s paper “Instrumentality Tests Revisited” was selected as a Best-student paper award runner-up” at the Seventeenth Conference on Uncertainty in Artificial Intelligence, UAI-01, Seattle, August 2001.

Number of graduate students supported by ONR funds during 1 Oct ‘00 - 30 Sep ‘01:

Avin, Chen
Bonet, Blai
Brito, Carlos
Hopkins, Mark
Tian, Jin

Number of post-doctoral researchers supported by ONR funds during 1 Oct '00 - 30 Sep '01:

N/A

Number of undergraduate students supported by ONR funds during 1 Oct '00 - 30 Sep '01:

N/A

Number of underrepresented individuals

N/A