Masami Takikawa, Ph.D.

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Masami Takikawa is a software developer and architect with over 30 years of experience in developing data-driven applications, specializing in AI and Machine Learning (ML). Before joining CBI, Masami served as a Director of Software Development at Oracle for 11 years, where he led AI/ML initiatives for Oracle’s e-commerce platform, used by major e-commerce sites worldwide. At CBI, Masami works on all aspects of Data Basin, CBI’s flagship web platform that empowers thousands of users to collaboratively explore and act on geospatial conservation data.

# EDUCATION

* **1998 Ph.D., Computer Science**, Oregon State University, Corvallis, Oregon. Dissertation: Representations and Algorithms for Efficient Inference in Bayesian Networks.
* **1992 M.S., Computer Science**, Oregon State University, Corvallis, Oregon. Dissertation: A Compiler for the Multiparadigm Programming Language Leda
* **1988 M.A., Behavioral Science**, Hokkaido University, Sapporo, Hokkaido, Japan.
* **1986 B.A., Behavioral Science**, Hokkaido University, Sapporo, Hokkaido, Japan.

# EMPLOYMENT HISTORY

Oct 2024 – present. Senior Software Developer, Conservation Biology Institute

Mar 2011 – Aug 2022. Director, Software Development, Oracle

Feb 2007 – Dec 2013. Software Development Consultant, OnLine Star

Feb 2008 – Feb 2011. Architect, OnDemand Personalization, Art Technology Group (ATG)

Feb 2007 – Feb 2008. Principal Engineer, Cleverset

Aug 1997 – Jan 2007. Principal Engineer, Information Extraction & Transport (IET)

Jan 1993 – Dec 2001. Software Development Consultant, BSJ Technologies

Jun 2001 – Sep 2001. Senior Engineer, Cleverset

Apr 1992 – Aug 1998. Graduate Research and Teaching Assistant, Oregon State University

Sep 1995 – Jul 1997. Software Engineer, Prevision

Jan 1986 – Dec 1992. Software Engineer, BUG

# PROFESSIONAL SERVICES

2006 – 2007. Program Committee Member, The National Conference on Artificial Intelligence

2005 – 2007. Program Committee Member, The Workshop on Uncertainty Reasoning for the Semantic Web

2006 – 2007. Reviewer, International Journal of Approximate Reasoning

# SELECTED PUBLICATIONS

R. Schrag, M. Takikawa, P. Goger, and J. Eilbert. Performance evaluation for automated threat detection. The Journal of Advances in Information Fusion, 2(2), December 2007.

C. Twardy, E. Wright, S. Canon, and M. Takikawa. Credibility models. In The Fifth UAI Bayesian Modeling Applications Workshop, July 2007.

B. Schrag and M. Takikawa. Scoring hypotheses from threat detection technologies: Analogies to machine learning evaluation. In AAAI-07 Workshop on Evaluation Methods for Machine Learning II, July 2007.

B. Schrag and M. Takikawa. Scoring hypotheses from threat detection technologies. In AAAI Fall Symposium on Capturing and Using Patterns for Evidence Detection, October 2006.

P. Costa, F. Fung, K. Laskey, M. Pool, M. Takikawa, and E. Wright. MEBN logic: A key enabler for network centric warfare. In The Tenth International Command and Control Research and Technology Symposium on the Future Of C2, June 2005.

F. Fung, K. Laskey, M. Pool, M. Takikawa, and E. Wright. PLASMA: Combining predicate logic and probability for information fusion and decision support. In The AAAI Spring Symposium on Challenges to Decision Support in a Changing World, March 2005.

M. Takikawa, B. D’Ambrosio, and E. Wright. Real-time inference with large-scale temporal bayes nets. In Proceedings of the Eighteenth Conference on Uncertainty in Artificial Intelligence, 2002.

E. Wright, S. Mahoney, K. Laskey, M. Takikawa, and T. Levitt. Multi-entity bayesian networks for situation assessment. In Proceedings of the Fifth International Conference on Information Fusion, July 2002.

B. D’Ambrosio, M. Takikawa, J. Fitzgerald, D. Upper, and S. Mahoney. Security situation assessment and response evaluation (SSARE). In Proceedings of the DARPA Information Survivability Conference & Exposition II, volume I, pages 387–394. IEEE Computer Society, June 2001.

J. Jorgensen, P. Rossignol, M. Takikawa, and D. Upper. Cyber ecology: Looking to ecology for insights into information assurance. In Proceedings of the DARPA Information Survivability Conference & Exposition II, volume II, pages 287–296. IEEE Computer Society, June 2001.

M. Takikawa and B. D’Ambrosio. Multiplicative factorization of noisy-max. In Proceedings of the Fifteenth Conference on Uncertainty in Artificial Intelligence, pages 622–630, 1999.