

[Prioritized logic programming and its application to commonsense reasoning](#)[psu.edu](#) [PDF]C Sakama, K Inoue - *Artificial Intelligence*, 2000 - Elsevier

Representing and reasoning with priorities are important in commonsense reasoning. This paper introduces a framework of prioritized logic programming (PLP), which has a mechanism of explicit representation of priority information in a program. When a program contains incomplete ...

[Cited by 86](#) - [Related articles](#) - [All 9 versions](#)[Negation as failure in the head](#)K Inoue, C Sakama - *Journal of Logic Programming*, 1998 - Citeseer

The class of logic programs with negation as failure in the head is a subset of the logic of MBNF introduced by Lifschitz and is an extension of the class of extended disjunctive programs. An interesting feature of such programs is that the minimality of answer sets does not hold. ...

[Cited by 89](#) - [Related articles](#) - [Cached](#) - [BL Direct](#) - [All 4 versions](#)[PDF] [Possible model semantics for disjunctive databases](#)[psu.edu](#) [PDF]C Sakama - ... *First International Conference on Deductive and ...*, 1990 - Citeseer

This paper presents a novel approach to the semantics of deductive databases. The possible model semantics is introduced as an alternative approach to the classical minimal model semantics. The possible model semantics can distinguish both inclusive and exclusive ...

[Cited by 74](#) - [Related articles](#) - [View as HTML](#) - [All 4 versions](#)[An alternative approach to the semantics of disjunctive logic programs and deductive databases](#)C Sakama, K Inoue - *Journal of automated reasoning*, 1994 - Springer

Abstract. In this paper, we study a new semantics of logic programming and deductive databases. The possible model semantics is introduced as a declarative semantics of disjunctive logic programs. The possible model semantics is an alternative theoretical framework to ...

[Cited by 78](#) - [Related articles](#) - [BL Direct](#) - [All 4 versions](#)[Representing priorities in logic programs](#)C Sakama, K Inoue - ... *proceedings of the 1996 Joint International ...*, 1996 - books.google.com

Representing Priorities in Logic Programs Chiaki Sakama Department of Computer and Communication Sciences Wakayama University Sakaedani, Wakayama 640, Japan sakamafsys.wakayama-u.ac.jp http://www.wakayama-u.ac.jp/~sakama Katsumi Inoue Department ...

[Cited by 73](#) - [Related articles](#) - [All 3 versions](#)[PS] [Abductive framework for nonmonotonic theory change](#)[psu.edu](#) [PS]K Inoue, C Sakama - *Proceedings of the 14th International Joint ...*, 1995 - Citeseer

A lot of theories for belief change have been proposed in AI and related fields. At abstract and philosophical levels, the belief dynamics have been studied as rationality postulates to be satisfied by belief sets (eg, [Alchourron et al., 1985; Katsuno and Mendelzon, 1991b]). In the ...

[Cited by 64](#) - [Related articles](#) - [View as HTML](#) - [BL Direct](#) - [All 7 versions](#)[Updating extended logic programs through abduction](#)[psu.edu](#) [PDF]C Sakama, K Inoue - *Logic Programming and Nonmonotonic Reasoning*, 1999 - Springer

Abstract. This paper introduces techniques for updating knowledge bases represented in extended logic programs. Three different types of updates, view updates, theory updates, and inconsistency removal, are considered. We formulate these updates through abduction, and provide ...

[Cited by 58](#) - [Related articles](#) - [BL Direct](#) - [All 11 versions](#)[A fixpoint characterization of abductive logic programs* 1](#)K Inoue, C Sakama - *The Journal of Logic Programming*, 1996 - Elsevier

A new fixpoint semantics for abductive logic programs is provided, in which the belief models of an abductive program are characterized as the fixpoint of a disjunctive program obtained by a suitable program transformation. In the transformation, both negative hypotheses ...

[Cited by 53](#) - [Related articles](#) - [BL Direct](#) - [All 6 versions](#)[Partial deduction of disjunctive logic programs: A declarative approach](#)[psu.edu](#) [PDF]C Sakama, H Seki - *Logic Program Synthesis and Transformation—Meta- ...*, 1994 - Springer

Partial deduction or partial evaluation is known as one of the optimization techniques in logic programming. Given a logic program, partial deduction derives a more specific program through performing deduction on a part of the program, while preserving the meaning of the ...

[Cited by 42](#) - [Related articles](#) - [BL Direct](#) - [All 10 versions](#)[Paraconsistent Stable Semantics for extended disjunctive programs](#)C Sakama, K Inoue - *Journal of Logic and Computation*, 1995 - Oxford Univ Press

This paper presents declarative semantics of possibly inconsistent disjunctive logic programs. We introduce the paraconsistent minimal and stable model semantics for extended disjunctive programs, which can distinguish inconsistent information from other ...

[Cited by 39](#) - [Related articles](#) - [All 5 versions](#)[Speculative Computation by Abduction under Incomplete Communication Environments.](#)KEN SATO, K Inoue, K Iwanuma, C Sakama - *SIG KBS*, 2000 - sciencelinks.jp

TOP > J-EAST > List of Journal Titles (S) > SIG-KBS(2000) > Speculative Computation by Abduction under Incomplete Communication Environments. ... Speculative Computation by Abduction under Incomplete Communication Environments. ... Title;Speculative Computation by Abduction ...

[Cited by 37](#) - [Related articles](#) - [Cached](#) - [All 5 versions](#)

[Equivalence of logic programs under updates](#)K Inoue, C Sakama - *Logics in Artificial Intelligence*, 2004 - Springer

Abstract. This paper defines a general framework for testing equivalence of logic programs with respect to two parameters. Given two sets of rules Q and R , two logic programs P_1 and P_2 are said to be update equivalent with respect to (Q, R) if $(P_1 \setminus Q) \cup R$ and $(P_2 \setminus Q) \cup R$ have ...

[Cited by 35](#) - [Related articles](#) - [BL Direct](#) - [All 4 versions](#)

[On the equivalence between disjunctive and abductive logic programs](#)C Sakama, K Inoue - *Logic Programming, Proceedings of the Eleventh ...*, 1994 - Citeseer

This paper presents the equivalence relationship between disjunctive and abductive logic programs. We show that the generalized stable model semantics of abductive logic programs can be translated into the possible model semantics of disjunctive programs, and vice ...

[Cited by 31](#) - [Related articles](#) - [Cached](#) - [All 4 versions](#)

[Transforming abductive logic programs to disjunctive programs](#)

K Inoue, C Sakama - ... of the Tenth International Conference on ..., 1993 - books.google.com

Transforming Abductive Logic Programs to Disjunctive Programs Katsumi Inoue* ICOT 1-4-28 Mita, Minato-ku, Tokyo 108, Japan inoue@icot.or.jp Chiaki Sakama ASTEM Research Institute of Kyoto 17 Chudoji Minami-machi, Shimogyo, Kyoto 600, Japan sakama@astem.or.jp ...

[Cited by 31](#) - [Related articles](#) - [All 9 versions](#)

[psu.edu](#) [PDF][Extended well founded semantics for paraconsistent logic programs](#)C Sakama - *Fifth Generation Computer Systems*, 1992 - Citeseer

This paper presents a declarative semantics of logic programs which possibly contain inconsistent information. We introduce a multi-valued interpretation of logic programs and present the extended well-founded semantics for paraconsistent logic programs. In this setting, a meaningful ...

[Cited by 28](#) - [Related articles](#) - [Cached](#) - [All 2 versions](#)

[Relating disjunctive logic programs to default theories](#)C Sakama, K Inoue - *Logic Programming and Non-monotonic ...*, 1993 - books.google.com

Relating Disjunctive Logic Programs to Default Theories Chiaki Sakama ASTEM Research Institute of Kyoto 17 Chudoji Minami-machi Shimogyo, Kyoto 600, Japan sakama@astem.or.jp Katsumi Inoue* ICOT Mita-Kokusai Bldg., 21F 1-4-28 Mita, Minato-ku, Tokyo 108, Japan ...

[Cited by 25](#) - [Related articles](#) - [All 5 versions](#)

[Abductive logic programming and disjunctive logic programming: their relationship and transferability](#) [psu.edu](#) [PDF]C Sakama, K Inoue - *The Journal of Logic Programming*, 2000 - Elsevier

Abductive logic programming (ALP) and disjunctive logic programming (DLP) are two different extensions of logic programming. This paper investigates the relationship between ALP and DLP from the program transformation viewpoint. It is shown that the belief set semantics of ...

[Cited by 22](#) - [Related articles](#) - [BL Direct](#) - [All 7 versions](#)

[Negation in disjunctive logic programs](#)C Sakama, K Inoue - *Proceedings of the 10th Int. Conf. on Logic ...* - Citeseer

In this paper, we study inferring negation from disjunctive logic programs. First, we consider extensions of the GCWA and the WGCWA for general disjunctive programs based upon the stable model semantics. We define new rules, the GCWA' and the WGCWA', which are natural ...

[Cited by 23](#) - [Related articles](#) - [Cached](#) - [All 3 versions](#)

[Embedding circumscriptive theories in general disjunctive programs](#)C Sakama, K Inoue - *Logic Programming and Nonmonotonic Reasoning*, 1995 - Springer

Abstract. This paper presents a method of embedding circumscriptive theories in general disjunctive programs. In a general disjunctive program, negation as failure occurs not only in the body but in the head of a rule. In this setting, minimized predicates of a circumscriptive theory are ...

[Cited by 22](#) - [Related articles](#) - [BL Direct](#) - [All 9 versions](#)

[psu.edu](#) [PDF][An abductive framework for computing knowledge base updates](#)C Sakama, K Inoue - *Theory and Practice of Logic ...*, 2003 - Cambridge Univ Press

This paper introduces an abductive framework for updating knowledge bases represented by extended disjunctive programs. We first provide a simple transformation from abductive programs to update programs which are logic programs specifying changes on abductive ...

[Cited by 21](#) - [Related articles](#) - [All 9 versions](#)

[arxiv.org](#) [PDF][CITATION] [Updating extended logic programs through abduction](#)K Inoue, C Sakama - *Proc. LPNMR'99*, 1999

[Cited by 19](#) - [Related articles](#)

[Induction from answer sets in nonmonotonic logic programs](#)C Sakama - *ACM Transactions on Computational Logic (TOCL)*, 2005 - portal.acm.org

1. INTRODUCTION Induction realizes concept learning by constructing general sentences from examples. In the context of computational logic, inductive machine learning is realized in the framework of Inductive Logic Programming (ILP) [Muggleton 1992; Muggleton and De ...

[Cited by 19](#) - [Related articles](#) - [All 9 versions](#)

[uniba.sk](#) [PDF][Partial deduction in disjunctive logic programming](#)C Sakama, H Seki - *The Journal of Logic Programming*, 1997 - Elsevier

This paper presents a partial deduction method in disjunctive logic programming. Partial deduction in normal logic programs is based on unfolding between normal clauses, hence it is not applicable to disjunctive logic programs in general. Then we introduce a new partial deduction ...

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[psu.edu](#) [PDF][Computing extended abduction through transaction programs](#)K Inoue, C Sakama - *Annals of Mathematics and Artificial Intelligence*, 1999 - Springer[psu.edu](#) [PDF]

To explain observations from nonmonotonic background theories, one often needs re- moval of some hypotheses as well as addition of other hypotheses. Moreover, some obser- vations should not be explained, while some are to be explained. In order to formalize these ...

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[PDF] [Abducing priorities to derive intended conclusions](#)

[psu.edu](#) [PDF]

K Inoue, C Sakama - [International Joint Conference on Artificial ...](#), 1999 - Citeseer

We introduce a framework for finding prefer- ence information to derive desired conclusions in nonmonotonic reasoning. A new abductive framework called preference abduction enables us to infer an appropriate set of priorities to ex- plain the given observation skeptically, ...

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[Nonmonotonic Inductive Logic Programming](#)

[psu.edu](#) [PDF]

C Sakama - [Logic Programming and Nonmotonic Reasoning, 2001](#) - Springer

Abstract. Nonmonotonic logic programming (NMLP) and inductive logic programming (ILP) are two important extensions of logic program- ming. The former aims at representing incomplete knowledge and reason- ing with commonsense, while the latter targets the problem of ...

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[Inverse entailment in nonmonotonic logic programs](#)

[psu.edu](#) [PDF]

C Sakama - [Inductive Logic Programming, 2000](#) - Springer

Abstract. Inverse entailment (IE) is known as a technique for finding inductive hypotheses in Horn theories. When a background theory is nonmonotonic, however, IE is not applicable in its present form. The purpose of this paper is extending the IE technique to nonmonotonic inductive ...

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[PDF] [On positive occurrences of negation as failure](#)

[psu.edu](#) [PDF]

K Inoue, C Sakama - [Proc. of the 4th Int. Conf. on the Principles of ...](#), 1994 - Citeseer

Logic programs with positive occurrences of negation as failure have recently been in- troduced as a subset of the logic of mini- mal belief and negation as failure (MBNF). A unique feature of such programs, which other traditional logic programs lack, is that the minimality of ...

[Cited by 42](#) - [Related articles](#) - [View as HTML](#) - [All 6 versions](#)

[Computing preferred answer sets in answer set programming](#)

T Wakaki, K Inoue, C Sakama, K Nitta - [Logic for Programming, Artificial ...](#), 2003 - Springer

Abstract. Prioritized logic programs (PLPs) have a mechanism of rep- resenting priority knowledge in logic programs. The declarative semantics of a PLP is given as preferred answer sets which are used for representing nonmonotonic reasoning as well as preference abduction. ...

[Cited by 9](#) - [Related articles](#) - [BL Direct](#) - [All 4 versions](#)

[PDF] [Equivalence in abductive logic](#)

[psu.edu](#) [PDF]

K Inoue, C Sakama - [INTERNATIONAL JOINT CONFERENCE ON ...](#), 2005 - Citeseer

We consider the problem of identifying equiva- lence of two knowledge bases which are capable of abductive reasoning. Here, a knowledge base is written in either first-order logic or nonmono- tonic logic programming. In this work, we will give two definitions of abductive ...

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[CITATION] [Parallel control techniques for dedicated relational database engines](#)

H Itoh, M Abe, C Sakama, Y Mitomo - [Proceedings of the Third ...](#), 1987 - portal.acm.org

... Collaborative Colleagues: Hidenori Itoh: colleagues. Masaaki Abe: colleagues. Chiaki Sakama: colleagues. Yuji Mitomo: colleagues. The ACM Portal is published by the Association for Computing Machinery. Copyright © 2009 ACM, Inc. ...

[Cited by 9](#) - [Related articles](#) - [All 3 versions](#)

[Learning by answer sets](#)

[psu.edu](#) [PDF]

C Sakama - [Working Notes of the AAAI Spring Symposium on ...](#), 2001 - aaii.org

Introduction Nonmonotonic logic programming (NMLP) introduces mechanisms of representing incomplete knowledge and rea- soning with commonsense. An example of such extensions is extended logic programs with the answer set semantics (Gelfond and Lifschitz 1991). ...

[Cited by 8](#) - [Related articles](#) - [All 8 versions](#)

[Some properties of inverse resolution in normal logic programs](#)

[psu.edu](#) [PDF]

C Sakama - [Inductive Logic Programming, 1999](#) - Springer

Abstract. This paper studies the properties of inverse resolution in nor- mal logic programs. The V-operators are known as operations for induc- tive generalization in definite logic programs. In the presence of negation as failure in a program, however, the V-operators ...

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[Coordination between logical agents](#)

[psu.edu](#) [PDF]

C Sakama, K Inoue - [Computational Logic in Multi-Agent Systems, 2005](#) - Springer

Abstract. In this paper we suppose an agent that has a knowledge base written in logic programming and sets of beliefs under the answer set semantics. We then consider the following two problems: given two logic programs P1 and P2, which have the sets of answer sets ...

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[PDF] [Specifying transactions for extended abduction](#)

[psu.edu](#) [PDF]

K Inoue, C Sakama - [PRINCIPLES OF KNOWLEDGE REPRESENTATION ...](#), 1998 - Citeseer

Extended abduction introduced by Inoue and Sakama (1995) generalizes traditional abduc- tion in the sense that it can compute negative explanations by removing hypotheses from a nonmonotonic background theory, rather than only adding them. Also, it has a mechanism of computing ...

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[Disjunctive explanations](#)

[psu.edu](#) [PDF]

K Inoue, C Sakama - [Logic Programming, 2002](#) - Springer

Abstract. Abductive logic programming has been widely used to declaratively specify a variety of problems in AI including updates in data and knowledge bases, belief revision, diagnosis, causal theory, and default reasoning. One of the most significant issues in abductive ...

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[Generality relations in answer set programming](#)

K Inoue, C Sakama - *Logic Programming, 2006* - Springer

Abstract. This paper studies generality relations on logic programs. Intuitively, a program P1 is more general than another program P2 if P1 gives us more information than P2. In this paper, we define various kinds of generality relations over nonmonotonic programs in the ...

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[Inductive negotiation in answer set programming](#)

C Sakama - *Declarative Agent Languages and Technologies VI, 2009* - Springer

Abstract. This paper provides a logical framework of negotiating agents who have capabilities of evaluating and building proposals. Given a proposal, an agent decides whether it is acceptable or not. If the proposal is unacceptable as it is, the agent seeks conditions to accept it. ...

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[Coordination in answer set programming](#)

C Sakama, K Inoue - *ACM Transactions on Computational Logic (...)*, 2008 - portal.acm.org

This article studies a semantics of multiple logic programs, and synthesizes a program having such a collective semantics. More precisely, the following two problems are considered: given two logic programs P1 and P2, which have the collections of answer sets AS(P1) and ...

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[CITATION] A defeasible reasoning system in multi-agent environments

C Sakama, K Inoue, K Iwanuma, K Satoh - ... on *Computational Logic in Multi-Agent ...*, 2000

[Cited by 6](#) - [Related articles](#)

[The effect of partial deduction in abductive reasoning](#)

C Sakama, K Inoue - *Proceedings of the 12th International Conference on ...*, 1995 - Citeseer

Partial deduction is known as an optimization technique in logic programming. In the context of abductive logic programming, however, we present in this paper that normal partial deduction does not preserve explanations for abductive reasoning. Then we provide an alternative ...

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[Negotiation by abduction and relaxation](#)

C Sakama, K Inoue - *Proceedings of the 6th international joint ...*, 2007 - portal.acm.org

ABSTRACT This paper studies a logical framework for automated negotiation between two agents. We suppose an agent who has a knowledge base represented by a logic program. Then, we introduce methods of constructing counter-proposals in response to proposals ...

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[CITATION] Prioritized Logic Programming and Its Applications to Commonsense Reasoning

K Inoue, C Sakama - *Artificial Intelligence, 2000* - 万方数据 源系

[Cited by 5](#) - [Related articles](#)

[CITATION] Possible model semantics for disjunctive databases II

C Sakama - *Logic Programming and Non-monotonic Reasoning, 1990*

[Cited by 5](#) - [Related articles](#)

[CITATION] On abductive equivalence

K Inoue, C Sakama - *Model-Based Reasoning in Science and Engineering. ...*

[Cited by 5](#) - [Related articles](#)

[Ordering default theories and nonmonotonic logic programs](#)

C Sakama - *Theoretical Computer Science, 2005* - Elsevier

First-order theories are ordered under logical entailment based on the amount of information derived from theories. In default logic, on the other hand, a theory contains default information as well as definite information. To order default theories, distinguishing different sorts of ...

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[A deductive system for non-monotonic reasoning](#)

T Eiter, N Leone, C Mateis, G Pfeifer, F ... - *Logic Programming and ...*, 1997 - Springer

... 24. R. Ramakrishnan, D. Srivastava, and S. Sudarshan. CORAL - Control, Relations and Logic. In Proc. VLDB '92, Vancouver (BC), Canada, 1992. 25. C. Sakama. Possible Model Semantics for Disjunctive Databases. In Proc. DOOD- 89, pp. 337-351, 1989. 26. ...

[Cited by 186](#) - [Related articles](#) - [BL Direct](#) - [All 7 versions](#)

[psu.edu](#) [PDF]

[Negotiation using logic programming with consistency restoring rules](#)

TC Son, C Sakama - *Proceedings of the 21st international joint conference ...*, 2009 - aaai.org

We formalize negotiations using logic programming with consistency restoring rules (or CR- Prolog) [Balduccini and Gelfond, 2003]. Our formulation deals with incomplete information, preferences, and changing goals. We assume that each agent is equipped ...

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[psu.edu](#) [PDF]

[Partial evaluation of queries in deductive databases](#)

C Sakama, H Itoh - *New Generation Computing, 1988* - Springer

Abstract This paper presents some applications of partial evaluation method to a query optimization in deductive database. A Horn clause transformation is used for the partial evaluation of a query in an intensional database, and its application to multiple query processing is discussed. ...

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[\[PDF\] Abductive generalization and specialization](#)[psu.edu](#) [PDF]C Sakama - *Abduction and Induction-Essays on their Relation and ...*, 2000 - Citeseer

Abstract. This chapter introduces new techniques called abductive generalization and abductive specialization in logic programs. Abductive generalization enables us to abduce not only specific facts but general rules accounting for positive observations. It is achieved by ...

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[A-System: Problem solving through abduction](#)AC Kakas, B Van Nuffelen, M ... - *Proceedings of the 17th ...*, 2001 - portal.acm.org

... New Generation Computing, pp. 365-387, 1991. 11. [Inoue and Sakama, 1995] K. Inoue and C. Sakama. Abductive framework for nonmonotonic theory change. In *Proceedings of IJCAI-95*, pages 204-210, 1995. 12. [Iwayama and Satoh, 2000] N. Iwayama and K. Satoh. ...

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[Combining answer sets of nonmonotonic logic programs](#)[psu.edu](#) [PDF]C Sakama, K Inoue - *Computational Logic in Multi-Agent Systems*, 2006 - Springer

Abstract. This paper studies compositional semantics of nonmonotonic logic programs. We suppose the answer set semantics of extended disjunctive programs and consider the following problem. Given two programs P1 and P2, which have the sets of answer sets AS(P1) and ...

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[\[CITATION\] Negation as failure in the head](#)C Sakama, K Inoue - *Journal of Logic Programming*, 1998

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[\[PDF\] Ordering default theories](#)[psu.edu](#) [PDF]C Sakama - *INTERNATIONAL JOINT CONFERENCE ON ...*, 2003 - Citeseer

In first-order logic, a theory T_1 is considered stronger than another theory T_2 if every formula derived from T_1 is also derived from T_2 . Such an order relation is useful to know relative value between different theories. In the context of default logic, a theory contains default ...

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[Extending and implementing the stable model semantics* 1](#)[arxiv.org](#) [PDF]P Simons, I Niemelä, T Soinen - *Artificial Intelligence*, 2002 - Elsevier

... Patrik Simons E-mail The Corresponding Author, a, Ilkka Niemelä Corresponding Author Contact Information, E-mail The Corresponding Author, b and Timo Soinen E-mail The Corresponding Author, c. a Neotide Oy, Wolffintie 36, FIN-65200 Vaasa, Finland. ...

[Cited by 483](#) - [Related articles](#) - [All 13 versions](#)

[The plp system](#)T Wakaki, K Inoue, C Sakama, K Nitta - *Logics in Artificial Intelligence*, 2004 - Springer

Prioritized Logic Programs (PLPs) [7] introduce explicit representation of priorities to logic programs. They realize various types of (prioritized) commonsense reasoning in artificial intelligence including preference abduction [5]. Recently, the authors realize a sound and complete ...

[Cited by 3](#) - [Related articles](#) - [BL Direct](#) - [All 2 versions](#)

[Constructing consensus logic programs](#)[unive.it](#) [PDF]C Sakama, K Inoue - *Logic-Based Program Synthesis and Transformation*, 2007 - Springer

Logic programming provides a formal language for representing knowledge and belief of an agent. The declarative semantics of a program is given by a set of canonical models which represent belief sets of an agent. Our primary interest in this paper is: what are the ...

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[\[CITATION\] Relationship between catecholamine levels in amniotic fluid and fetal blood flow in fetal distress](#)

A Sekizawa, H Ishikawa, C Sakama, T ... - ... Sanka Fujinka Gakkai ..., 1995 - ncbi.nlm.nih.gov

... 1995 Oct;47(10):1063-8. [Relationship between catecholamine levels in amniotic fluid and fetal blood flow in fetal distress] [Article in Japanese] Sekizawa A, Ishikawa H, Sakama C, Morimoto T, Suzuki A, Saito H, Yanaihara T. Department of Obstetrics and Gynecology, Showa ...

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[\[CITATION\] On the equivalence between disjunctive and abductive logic programs](#)K Inoue, C Sakama - *In proceedings of ICLP94*, 1994

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[The role of abduction in logic programming](#)[psu.edu](#) [PDF]AC Kakas, RA Kowalski, F Toni - *Handbook of logic in artificial ...*, 1998 - books.google.com

Page 252. The Role of Abduction in Logic Programming AC Kakas, RA Kowalski and F. Toni Contents 1 Introduction 236 1.1 Abduction in logic 237 1.2 Integrity constraints 241 1.3 Applications 243 2 Knowledge assimilation ...

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[Nonmonotonic causal theories](#)[ttu.edu](#) [PDF]E Giunchiglia, J Lee, V Lifschitz, N McCain, H Turner - *Artificial Intelligence*, 2004 - Elsevier

... 359-380. [38]. C. Sakama and K. Inoue, Relating disjunctive logic programs to default theories. In: LM Pereira and A. Nerode, Editors, *Logic Programming and Non-monotonic Reasoning: Proceedings of the Second Internat. Workshop (1993)*, pp. 166-282. [39]. ...

[Cited by 253](#) - [Related articles](#) - [All 15 versions](#)

[Argumentation-based abduction in disjunctive logic programming](#)[psu.edu](#) [PDF]K Wang - *The Journal of Logic Programming*, 2000 - Elsevier

... 337-351. [36]. C. Sakama, Possible model semantics for disjunctive databases, in: *Proceedings of the First International Conference on Deductive and Object Oriented*

Databases, 1989, pp. 1055–1060. [37]. C. Sakama, Negation ...

[Cited by 11](#) - [Related articles](#) - [BL Direct](#) - [All 10 versions](#)

[An abductive approach to disjunctive logic programming](#)

JH You, LY Yuan, R Goebel - *The Journal of Logic Programming*, 2000 - Elsevier

... [19]. K. Inoue, C. Sakama, Transforming abductive logic programs to disjunctive programs, in: Proceedings of the 10th ICLP, MIT Press, Cambridge, MA, 1993. [20]. A. Kakas, R. Kowalski and F. Toni, Abductive logic programming. *Journal of Logic and Computation* 2 (1992), pp. ...

[Cited by 8](#) - [Related articles](#) - [BL Direct](#) - [All 12 versions](#)

[psu.edu](#) [PDF]

[PDF] [Inductive extension of abduction](#)

C Sakama - *Proc. IJCAI'97 Workshop on Abduction and Induction in ...* - Citeseer

1 Introduction Abduction and induction are two forms of commonsense reasoning in artificial intelligence. Generally, abduction infers explanatory facts for an observation using known rules in a background knowledge base, while induction infers new rules for an observation ...

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[psu.edu](#) [PDF]

[Generality and equivalence relations in default logic](#)

K Inoue, C Sakama - ... OF THE NATIONAL CONFERENCE ON ARTIFICIAL ..., 2007 - aaai.org

Abstract Generality or refinement relations between different theories have important applications to generalization in inductive logic programming, refinement of ontologies, and coordination in multi-agent systems. We study generality relations in disjunctive default logic by com- ...

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[Brave induction](#)

C Sakama, K Inoue - *Inductive Logic Programming*, 2008 - Springer

Abstract. This paper considers the following induction problem. Given the background knowledge B and an observation O , find a hypothesis H such that a consistent theory $B \wedge H$ has a minimal model satisfying O . We call this type of induction brave induction. Brave induction is ...

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[Inductive equivalence of logic programs](#)

C Sakama, K Inoue - *Inductive Logic Programming*, 2005 - Springer

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[PDF] [On the existence of answer sets in normal extended logic programs](#)

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Abstract An often problematic feature in answer set programming is that a program does not always produce an answer set, even for programs which represent default information in a seemingly natural way. To cope with this problem, this paper introduces a class of normal ...

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[Reasoning and Planning with Cooperative Actions for Multiagents Using Answer Set Programming](#)

T Son, C Sakama - *Declarative Agent Languages and Technologies VII*, 2010 - Springer

Abstract. In this paper, we investigate the multiagent planning problem in the presence of cooperative actions and agents, which have their own goals and are willing to cooperate. To this end, we extend the action language A in [12] to represent and reason about plans with ...

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[CITATION] ^aRepresenting Priorities in Logic Programs

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Consider a multiagent society where individual agents have their own knowledge bases. To solve problems cooperatively, agents must share their information in the society. It is likely, however, that the same information is represented in different ways by each agent. To ...

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2000 Page 2. A Simple Characterization of Extended Abduction 719 Inoue and Sakama [13]

extended this traditional abductive framework in two ways as follows. ...

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... of this volume. Sakama dropped the C-scheme in his Extended Well- Founded

Semantics [Sakama, 1992], thereby obtaining a paraconsistent version of WFS for

extended logic programs (EWFS). The original presentation of ...

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... This is represented by theory T2 in Figure 2. Now what can you say about who will T2 = fa _ b _

c; (a & b) ! (c _ d); (b & c) ! (a _ d); (a & c) ! bg rd r r dr dr rd dr dr Z Z Z Z # # # # b b b b " " " "

aa a aa aaa SS abcd c b a bd ad cd bcd abd abc Figure 2: The party example ...

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In order to highlight factors leading to problems in parenting, a survey of 450 mothers with children aged three or younger was conducted. Data from 370 respondents who completed the questionnaire were used for the analysis. The results were as follows: 1) From factor analysis, a concept ...

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[A paraconsistent semantics with contradiction support detection](#)

C Damásio, L Pereira - Logic Programming And Nonmonotonic ..., 1997 - Springer

... Clearly the truth of a depends on the contradictory pair of literals c and $\neg c$: removing at least one of them makes a no longer true. Sakama's suspicious well-founded model [34] and Sakama and Inoue's suspicious stable models [35] are incapable of detecting this dependency ...

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... equivalence [Inoue and Sakama, 2004]. ... Our main contributions are briefly summarized as follows.

(1) We introduce a general framework for correspondences between the answer sets of programs P and Q, which are augmented by further rules from a context C of possible ex ...

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