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Nota di contenuto	Invited Papers -- A Computational Logic Approach to Heterogenous Agent Systems -- Declarative Information Extraction, Web Crawling, and Recursive Wrapping with Lixto -- On The Complexity of Model Checking and Inference in Minimal Models -- Data Integration Needs Reasoning -- Nonmonotomic Inductive Logic Programming -- Regular Papers -- Strong Equivalence for Logic Programs and Default Theories (Made Easy) -- On the Effect of Default Negation on the Expressiveness of Disjunctive Rules -- On the Expressibility of Stable Logic Programming -- On the Relationship between Defeasible Logic and Well-Founded Semantics -- A Comparative Study of Well-Founded Semantics for Disjunctive Logic Programs -- Reasoning with Open Logic Programs -- Representation of Incomplete Knowledge by

Induction of Default Theories -- Explicity Using Default Knowledge in Concept Learning: An Extended Description Logics Plus Strict and Default Rules -- Declarative Specification and Solution of Combinatorial Auctions Using Logic Programming -- Bounded LTL Model Checking with Stable Models -- Diagnosing Physical Systems in A-Prolog -- Planning with Different Forms of Domain-Dependent Control Knowledge — An Answer Set Programming Approach -- Encoding Solutions of the Frame Problem in Dynamic Logic -- ?-RES: Reasoning about Actions, Events and Observations -- Omega-Restricted Logic Programs -- Improving ASP Instantiators by Join-Ordering Methods -- Optimizing the Computation of Heuristics for Answer Set Programming Systems -- New Generation Systems for Non-monotonic Reasoning -- Algorithms for Computing X-Minimal Models -- Fixpoint Characterizations for Many-Valued Disjunctive Logic Programs with Probabilistic Semantics -- Multi-adjoint Logic Programming with Continous Semantics -- Multi-dimensional Dynamic Knowledge Representation -- Antitonic Logic Programs -- System Description -- A-system: Declarative Programming with Abduction -- An Update Front-End for Extended Logic Programs -- aspps — An Implementation of Answer-Set Programming with Propositional Schemata -- NoMoRe: A System for Non-Monotonic Reasoning under Answer Set Semantics -- plp: A Generic Compiler for Ordered Logic Programs -- Prototypes for Reasoning with Infinite Stable Models and Function Symbols -- psmodels: Stable Models Based on Pertinence -- System Description: DLV -- System Description: The DLVK Planning System -- The Smodels System -- The USA-Advisor: A Case Study in Answer Set Planning.

Sommario/riassunto

ThesearetheproceedingsoftheSixthInternationalConferenceonLogicP-grammingandNonmonotonicReasoning (LPNMR2001). The conference was heldinViennafrom17thto19thofSeptember,2001. Itwascollocatedwiththe JointGerman/AustrianConferenceonArti'cialIntelligence (24thGerman/9th AustrianConferenceonArti'cialIntelligence),KI2001. LPNMR conferences aim to promote research in logic-based programming languages, database systems, nonmonotonic reasoning, and knowledge rep- sentation. LPNMR2001 was the sixth conference in the series. The previous meetingswereheldinWashington,DC,in1991, inLisbon,Portugal,in1993,in Lexington,Kentucky,in1995,inDagstuhl, Germany,in1997,andinElPaso, Texas,in1999. ThetechnicalprogramofLPNMR2001wascomprisedof'veinvitedtalks thatweregivenbyJur ¨ genDix,GeorgGottlob,PhokionKolaitis,MaurizioLe-erini,andChiakiSakama. Italsocontained23technicalpresentationsselected bytheprogramcommitteeduringarigorousreviewprocess. Finally,asapart ofthetechnicalprogram, theconferencefeaturedaspecialsessioncomprisedof ninepresentationsanddemonstrationsofimplementednonmonotonicreas oning systems. Allthesecontributionsareincludedintheproceedings. Many individuals workedfor the success of the conference. Special thanks areduetoallmembersoftheprogramcommitteeandtoadditionalreviewers fortheire'ortstoproducefairandthoroughevaluationsofsubmittedpapers. Furthermore, we would like to thank the members of the Knowledge Based SystemsGroupoftheViennaUniversityofTechnology, whichtookcareofthe localorganization. Weparticularlyappreciatedthenevertiringe'ortofElfriede Nedoma, secretarytothegroup. WewouldalsoliketothankGerdBrewkafor hissupportiveroleinarrangingthecollocationoftheconferencewithKI2001. Last,butnotleast,wethankthesponsoringinstitutionsfortheirgenerosity.

September2001 ThomasEiter WolfgangFaber Miros lawTruszczynski ´
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