

**UNIVERSITAT POLITÈCNICA DE CATALUNYA**

*Departament de llenguatges i sistemes informàtics*

**ACTUALITZACIÓ CONSISTENT DE  
BASES DE DADES DEDUCTIVES**

Autor: Enric Mayol Sarroca  
Director: Ernest Teniente i López

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## Referències

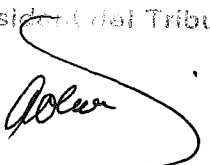
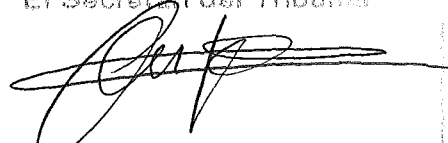


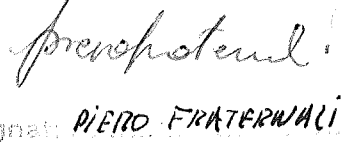
- [ABW88] Apt, K.R.; Blair, H.A.; Walker, A. "Towards a theory of declarative knowledge". In Minker, J. (Ed) "Foundations of Deductive Databases and Logic Programming", Morgan Kaufmann Pub., 1988, pp. 89-148.
- [Alb98] Albert, M. "Utilització d'un graf de precedències per al manteniment de restriccions d'integritat en una base de dades deductiva", PFC d'Enginyeria Superior en Informàtica, Facultat d'Informàtica, Febrer 1998.
- [BFU92] Blecua, J.; Farré, C.; Urpí, T. "Generació i simplificació automàtica de les regles d'esdeveniments interns corresponents a una base de dades deductiva", Report LSI-92-35-R, Barcelona, 1992.
- [BM97] Bidoit, N.; Maabout, S. "A Model Theoretic Approach to Update Rule Programs "Proc. of the International Conference of Database Technology ICDT'97, Delphi, Greece, January, 97, LNCS Vol 1186.
- [BR86] Bancilhom, F.; Ramakrisham, R. "An amateur's introduction to recursive query processing strategies", Proc. ACM SIGMOD Conf. On Management of Data, Washington D.C., 1986, pp. 16-52.
- [CFPT94] Ceri, S.; Fraternali, P.; Paraboschi, S.; Tanca, L. "Automatic Generation of Production Rules for Integrity Maintenance" ACM Transactions on Database Systems Vol.19 N°3, Sept. 1994, pp-367-422.
- [CHM95] Chen, I.A.; Hull, R.; McLeod, D. "An Execution Model for Limited Ambiguity Rules and Its Application to Derived Data Update", ACM Transactions on Database Systems, Vol. 20, N° 4, December 1995, pp.365-413.
- [CL87] Cavedon, L.; Lloyd, J. "A Completeness Theorem for SLDNF-Resolution", Technical Report TR-87/9, Department of computer Science, Univ. of Melbourne, Australia, 1987.
- [Cla78] Clark, K.L. "Negation as Failure", in Gallaire, H.; Minker, J. "Logic and Databases" Plenum Press, New York, pp. 293-322.
- [Cos95] Costal, D. "Un mètode de planificació basat en l'actualització de vistes en bases de dades deductives", Tesi Doctoral, Universitat Politècnica de Catalunya, 1995.
- [CST95] Console, L.; Sapino, M.L.; Theseider, D. "The Role of Abduction in Database View Updating", Journal of Intelligent Information Systems, Vol. 4, p.p. 261-280.
- [CTU97] Costal, D.; Teniente, E.; Urpí, T. "An Approach to Obtain Intensional Translations for Consistent View Updating", 5th Int. Conf. on Deductive and Object-Oriented Databases (DOOD'97), Montreux (Switzerland), 1997."
- [Dat90] Date, C.J. "Relational Database. Writings 1985-1989", Addison-Wesley Publishing company, Inc.
- [DC89] Decker, H.; Cavedon, L. "Generalysing syntactic properties which ensure completeness of SLDNF resolution" ECRC Internal Report IR-KB-52, 1989.
- [Dec89] Decker, H. "The Range Form of databases or: How to Avoid Floundering" Proc. 5<sup>th</sup> ÖGAI, Springer-Verlag, 1989.

- [Dec96] Decker, H. "An Extension of SLD by Abduction and Integrity Maintenance for View Updating in Deductive Databases", Joint International Conference and Symposium on Logic Programming (JICSLP'96), September, 1996, Bonn (Germany), pp.157-169.
- [Dec97] Decker, H. "One Abductive Logic Programming Procedure for two kind of Updates", Proc. Workshop DINAMICS'97 at Int. Logic Programming Symposium, September, 1997, Port Jefferson (New York), pp.
- [Fer'99] Fernandez, J. "Implementació eficient d'un mètode de View Updating i Integrity Constraint Maintenance", PFC d'Enginyeria Superior en Informàtica, Facultat d'Informàtica, Gener 1999.
- [FP97] Fraternali, P.; Paraboschi, S. "Ordering and Selecting Production Rules for Constraint Maintenance: Complexity and Heuristic Solution" IEEE Transactions on Knowledge and Data Engineering, Vol. 9, N° 1, 1997, pp-173-178.
- [FTU99] Farré, C.; Teniente, E.; Urpí, T. "The Constructive Method for Query Containment Ckecking", 10th Int. Conf. on Database and Expert Systems Applications (DEXA'99), Florence (Italy), September 1999."
- [GCMD94] García, C; Celma, M.; Mota, L.; Decker, H. "Comparing and Synthesizing Integrity Checking Methods for Deductive Databases", 10th Int. Conf. on Data Engineering (ICDE), Houston, USA, 1994, pp. 214-222.
- [Ger94] Gertz, M. "Specifying Reactive Integrity Control for Active Databases", Proceedings of RIDE'94, Houston, Texas, 1994, pp. 62-70.
- [GL90] Guessoum, A.; Lloyd, J.W. "Updating Knowledge Bases", New Generation Computing Vol. 8, Num. 1, 1990, pp. 71-89.
- [GL93] Gertz, M.; Lipeck, U.W. "Deriving Integrity Maintaining Triggers from Transition Graphs", International Conference on Data Engineering (ICDE'93), Vienna, 1993, pp. 22-29.
- [KM90] Kakas, A.C.; Mancarella, P. "Database Updates Through Abduction", Proc. of the 16th VLDB Conference, Brisbane, Australia, 1990, pp. 650-661.
- [Kow78] Kowalski, R. "Logic for Data Description", in Gallaire, H.; Minker, J. "Logic and Databases" Plenum Press, New York, 1978, pp. 77-103.
- [KS90] Kowalski, R.; Sadri, F. "Logic Programs with Exceptions", Seventh International Conference of Logic Programming (ICLP'90), 1990, pp.598-613.
- [Kun89] Kunen, K. "Signed Data Dependencies in Logic Programs", Journal of Logic Programming, Vol. 7, N° 3, 1989, pp.231-245.
- [LP92] Laurent, D.; Spyratos, N. "Updating in Universal Scheme Interfaces", IEEE Transactions on Knowledge and Data Engineering, 1992.
- [LPS93] Laurent, D.; Phang Luong, V.; Spyratos, N. "Updating Intensional Predicates in Deductive Databases", Data&Knowledge Engineering, April 1993, pp.14-21
- [LL96] Lee, S.Y.; Ling, T.W. "Further Improvement of Integrity Constraint Checking for Stratified Deductive Databases" Proc. of 22th VLDB Conference, Bombay, India, September 1996.
- [Llo87] Lloyd, J.W. "Foundations on Logic Programming", 2nd edition, Springer, 1987.
- [LIT84] Lloyd, J. W.; Topor, R. W. "Making Prolog More Expressive", Journal of Logic Programming 1984, N° 3, pp. 225-240.

- [LT97] Lobo, J.; Trajcevski, G. "Minimal and consistent evolution in knowledge bases" *Journal of Applied Non-Classical Logics*. Vol. 7. N° 1-2, 1997, pp: 117-146.
- [LS93] Levy, A.Y.; Sagiv, Y. "Query Independent of Updates", *Proc. of 19th VLDB Conference*, Dublin, Ireland, 1993.
- [Maa98] Maabout, S. "Maintaining and Restoring Database Consistency with Update Rules" *Proc. Worksh. DYNAMICS'98 (post conf. Work. Of JICSLP'98)*, Manchester, June 98, pp. - .
- [ML91] Moerkotte, G.; Lockemann, P.C. "Reactive Consistency Control in Deductive Databases" *ACM Transactions on Database Systems*, Vol.16(4), 1991, pp.670-702.
- [MT93] Mayol, E.; Teniente, E. "Incorporating Modification Requests in Updating Consistent Knowledge Bases", *Fourth Int. Workshop on the Deductive Approach to Information Systems and Databases*, Catalonia, 1993, pp. 275-300.
- [MT95] Mayol, E.; Teniente, E. "Towards an Efficient Method for Updating Consistent Deductive Databases", *Basque Int. Workshop on Information Technology (BIWIT'95)*, San Sebastián, IEEE Computer Society Press, 1995, pp. 113-123.
- [MT96] Mayol, E.; Teniente, E. "Analysing the Process of Enforcing Integrity Constraints", *Technical Report LSI-96-38-R*, 1996, Universitat Politècnica de Catalunya.
- [MT97] Mayol, E.; Teniente, E. "Structuring the Process of Integrity Maintenance", *8th International Conference on Database and Expert Systems Applications (DEXA'97)*, Toulouse, France, September 1997, pp. 262-275.
- [MT99a] Mayol, E.; Teniente, E. "Addressing Efficiency Issues During the Process of Integrity Maintenance", *10th International Conference on Database and Expert Systems Applications (DEXA'99)*, Florence, Italy, September 1999, pp. 270-281.
- [MT99b] Mayol, E.; Teniente, E. "A Survey of Current Methods for Integrity Constraint Maintenance and View Updating", *Proc. Of the First Workshop on Evolution and Change in Data Management (ECDM'99)*, Workshop of the ER'99 Conference, Paris, November 1999.
- [MT00] Mayol, E.; Teniente, E. "Dealing with Modification Requests during View Updating and Integrity Constraint Maintenance", *Proc. of the International Symposium on Foundations of Information and Knowledge Systems (FoIKS'00)*, Burg (Spreewald), Germany, February 2000.
- [Oli91] Olivé, A. "Integrity Checking in Deductive Databases", *Proc. of the 17th VLDB Conference*, Barcelona, Catalonia, 1991, pp. 513-523.
- [Pas97] Pastor, J.A. "Automatic Synthesis of Update Transaction Programs in Deductive Databases", *Tesi doctoral*, Universitat Politècnica de Catalunya, 1997.
- [Qui93] Quian, X. "The Deductive Synthesis of Database Transactions", *ACM Transactions on Database systems*, Vol.18, N° 4, 1993, pp.626-677.
- [Sch98] Schewe, K.D. "Consistency Enforcement in Entity-Relationship and Object-Oriented Models", *Data & Knowledge Engineering Vol 28, N°1*, 1998, pp.121-140
- [Sel95] Seljée, R. "A New Method for Integrity Constraint Checking in Deductive Databases" *Data&Knowledge Engineering Vol.15*, 1995, pp.63-102.

- [ST96] Schewe, K.D.; Thalheim, B. "Active Consistency Enforcement for Repairable Database Transitions", 6th Int. Workshop on Foundations of Models and Languages for Data and Objects: Integrity in Databases, Dagstuhl, Germany, Sept.16-20, 1996.
- [ST99] Schewe, K.D.; Thalheim, B. "Towards a theory of consistency enforcement ", Acta Informatica Vol 36 Num. 2 1999, pp.97-141
- [Ten92] Teniente, E. "El Mètode dels Esdeveniments per a l'actualització de vistes en bases de dades deductives", Tesi doctoral, Universitat Politècnica de Catalunya, 1992.
- [TO95] Teniente, E.; Olivé, A. "Updating Knowledge Bases while Maintaining their Consistency", The VLDB Journal, Vol. 4, Num. 2, 1995, pp. 193-241.
- [TU95] Teniente, E.; Urpí, T. "A Common Framework for Classifying and Specifying Deductive Database Updating Problems", 11th Int. Conf. on Data Engineering (ICDE), Taipei (Taiwan), 1995, pp. 173-183.
- [UO92] Urpí, T.; Olivé, A. "A Method for Change Computation in Deductive Databases", Proc. of the 18th VLDB Conference, Vancouver, 1992, pp. 225-237.
- [Urp93] Urpí, T. "El Mètode dels Esdeveniments per al càlcul de canvis en bases de dades deductives", Tesi doctoral, Universitat Politècnica de Catalunya, 1993.
- [Wüt93] Wüthrich, B. "On Updates and Inconsistency Repairing in Knowledge Bases", Int. Conference on Data Engineering (ICDE'93), Vienna 1993, pp.608-615.

Aquesta TESI fou llegida al Departament de Llenguatges i Sistemes Informàtics de la Universitat Politècnica de Catalunya el dia...3...d ...**ABRIL**... del 2000., mereixent la següent qualificació: ...**EXCEL·LENT... CUM LAUDE**...

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Vocal,	Vocal,	
		
Signat: <b>JOSEP LOBO</b>	Signat: <b>STEFANO PARABOSCHI</b>	Signat: <b>PIERO FRATERNALI</b>
El/la Doctorat/da		

