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## Publications

### 2014

1. L. Szathmary, P. Valtchev, A. Napoli, R. Godin, A. Boc, and V. Makarenkov. A fast compound algorithm for mining generators, closed itemsets, and computing links between equivalence classes. *Ann. Math. Artif. Intell. (AMAI)*, 70(1–2):81–105, 2014

### 2012

1. L. Szathmary, P. Valtchev, A. Napoli, and R. Godin. Efficient Vertical Mining of Minimal Rare Itemsets. In *Proc. of the 9th Intl. Conf. on Concept Lattices and Their Applications (CLA '12)*, pages 269–280, Fuengirola, Malaga, Spain, 2012
2. M. Kaytoue, A. Napoli, and L. Szathmary. Une brève présentation du système de fouille de données Coron. In *Extraction et gestion des connaissances (EGC '12)*, pages 603–606, Bordeaux, France, 2012. (in French)

### 2011

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2. H. Mili, P. Valtchev, Y. Charif, L. Szathmary, N. Daghrir, M. Béland, A. Boubaker, L. Martin, F. Bédard, S. Caid-Essebsi, and A. Leshob. E-Tourism Portal: A Case Study in Ontology-Driven Development. In *E-Technologies: Transformation in a Connected World*, volume 78 of *LNBIP*, pages 76–99. Springer, 2011

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1. L. Szathmary, P. Valtchev, and A. Napoli. Generating Rare Association Rules Using the Minimal Rare Itemsets Family. *International Journal of Software and Informatics*, 4(3):219–238, September 2010
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4. B. Ducatel, M. Kaytoue, F. Marcuola, A. Napoli, and L. Szathmary. Coron : Plate-forme d'Extraction de Connaissances dans les Bases de Données. In *17ème conférence en Reconnaissance des Formes et Intelligence Artificielle (RFIA '10)*, pages 883–884, 2010. (demo paper, in French)

## 2009

1. L. Szathmary, P. Valtchev, A. Napoli, and R. Godin. Efficient Vertical Mining of Frequent Closures and Generators. In *Proc. of the 8th Intl. Symposium on Intelligent Data Analysis (IDA '09)*, volume 5772 of *LNCS*, pages 393–404, Lyon, France, 2009. Springer
2. J. Baixeries, L. Szathmary, P. Valtchev, and R. Godin. Yet a Faster Algorithm for Building the Hasse Diagram of a Galois Lattice. In *Proc. of the 7th Intl. Conf. on Formal Concept Analysis (ICFCA '09)*, volume 5548 of *LNAI*, pages 162–177, Darmstadt, Germany, May 2009. Springer

## 2008

1. L. Szathmary, P. Valtchev, A. Napoli, and R. Godin. An Efficient Hybrid Algorithm for Mining Frequent Closures and Generators. In *Proc. of the 6th Intl. Conf. on Concept Lattices and Their Applications (CLA '08)*, pages 47–58, Olomouc, Czech Republic, Oct 2008
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2. L. Szathmary, A. Napoli, and S. O. Kuznetsov. ZART: A Multifunctional Itemset Mining Algorithm. In *Proc. of the 5th Intl. Conf. on Concept Lattices and Their Applications (CLA '07)*, pages 26–37, Montpellier, France, Oct 2007
3. M. d'Aquin, F. Badra, S. Lafrogne, J. Lieber, A. Napoli, and L. Szathmary. Case Base Mining for Adaptation Knowledge Acquisition. In *Proc. of the 20th Intl. Joint Conf. on Artificial Intelligence (IJCAI '07)*, pages 750–755, Hyderabad, India, Jan 2007. Morgan Kaufmann, Inc

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2. L. Szathmary, S. Maumus, P. Petronin, Y. Toussaint, and A. Napoli. Vers l'extraction de motifs rares. In G. Ritschard and C. Djeraba, editors, *Extraction et Gestion des Connaissances (EGC '06)*, Lille, France, pages 499–510. RNTI-E-6, Cépaduès-Éditions Toulouse, 2006. **(best paper award)**
3. L. Szathmary. *Symbolic Data Mining Methods with the Coron Platform*. PhD Thesis in Computer Science, University Henri Poincaré – Nancy 1, France, Nov 2006
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5. L. Szathmary, S. Maumus, and A. Napoli. Mining Rare Association Rules. LORIA Research Report 00102909 (<http://hal.inria.fr/inria-00102909>), Oct 2006
6. L. Szathmary and A. Napoli. CORON: A Platform for Itemset Mining Algorithms. In *Fourth Intl. Conf. on Formal Concept Analysis (ICFCA '06)*, Dresden, Germany, Feb 2006. (oral communication and demo, without paper)

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1. L. Szathmary and A. Napoli. CORON: A Framework for Levelwise Itemset Mining Algorithms. In B. Ganter, R. Godin, and E. Mephu Nguifo, editors, *Suppl. Proc. of the Third Intl. Conf. on Formal Concept Analysis (ICFCA '05)*, Lens, France, pages 110–113, Feb 2005. (demo paper)
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4. S. Maumus, L. Szathmary, A. Napoli, E. Albuissou, and S. Visvikis-Siest. Towards a global methodology for mining cohorts with biological and genetic data. Rapport de Contrat, Nov 2005. (Contrat de Plan Etat-Région, PRST Intelligence Logicielle)
5. L. Szathmary, A. Napoli, and S. O. Kuznetsov. ZART: A Multifunctional Itemset Miner Algorithm. LORIA Research Report A05-R-013, Feb 2005
6. L. Szathmary and A. Napoli. ZART: A Multifunctional Itemset Miner Algorithm. In *Third Intl. Conf. on Formal Concept Analysis (ICFCA '05)*, Lens, France, Feb 2005. (oral communication, without paper)

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1. L. Szathmary and A. Napoli. Knowledge organisation and information retrieval using Galois lattices. In R. Dieng-Kuntz and N. Matta, editors, *Workshop on Knowledge Management and Organizational Memories – ECAI '04 (16th European Conf. on Artificial Intelligence)*, Valencia, Spain, pages 73–78, Aug 2004
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5. L. Szathmary and A. Napoli. Les treillis de Galois pour l'organisation et la gestion des connaissances. In M. Chavent, O. Dordan, C. Lacomblez, M. Langlais, and B. Patouille, editors, *11èmes Rencontres de la Société Francophone de Classification (SFC '04)*, Bordeaux, France, pages 298–301, Sep 2004. (short version)
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## 2002

1. L. Szathmary. A proposition for a multi-dimensional classification-based system for corporate knowledge management. In *Proc. of the 2nd EKMF Management Summer School (KMSS '02)*, Sophia Antipolis, France, pages 129–134. INRIA, Sep 2002