

# Bruno Zanuttini's Vitæ\*

July 25, 2017

**N.B.** In the whole document, “UCBN” is an abbreviation for “Université de Caen Basse-Normandie” (University of Caen).

## 1 General information

- *Last name, given names:* Zanuttini, Bruno Léonce Amelio
- *Born:* February 17th, 1978 in Dijon (France)
- *Nationality:* French
- *Family:* married, two children (born in 2008 and 2011)

## 2 Contact information

- *Postal address:*

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\*A constantly up-to-date version of this document is available at <http://zanuttini.users.greyc.fr/personal/cv.php?lg=en>. (<http://zanuttini.users.greyc.fr/personal/cv.php?lg=fr> for a version in French).

### 3 Professional experience

- *2000–2003*: PhD student in Computer Science at the UCBN (national grant), “Knowledge acquisition and reasoning in propositional logic”, supervised by Jean-Jacques Hébrard and Étienne Grandjean
- *2003–2004*: Temporary research and teaching assistant, Computer Science dept/GREYC
- *Since September, 2004*: assistant professor (French “maître de conférences”), UCBN, Computer Science dept/GREYC
- *September, 2010–January, 2012*: “detached to CNRS” (no teaching duties)
- *Since June, 2011*: holder of the “habilitation à diriger des recherches” (habilitation: French diploma enabling one to supervise PhD theses)

### 4 Education

- *1998*: licence in Mathematics, UCBN
- *1999*: licence in Computer Science, UCBN
- *2000*: master in Artificial Intelligence and Algorithmics, UCBN
- *2003*: PhD in Computer Science, UCBN
- *2011*: habilitation, UCBN

### 5 Publications

- *Complete list*: see end of this document
- *Most significant*:
  1. Alexandre Niveau and Bruno Zanuttini. Efficient representations for the modal logic S5. In Subbarao Kambhampati, editor, *Proc. 25th International Joint Conference on Artificial Intelligence (IJCAI 2016)*, pages 1223–1229. AAAI Press, 2016.
  2. Martin C. Cooper, Aymeric Duchein, Achref El Mouelhi, Guillaume Escamocher, Cyril Terrioux, and Bruno Zanuttini. Broken triangles: From value merging to a tractable class of general-arity constraint satisfaction problems. *Artificial Intelligence*, 234:196–218, 2016.
  3. Jérôme Lang and Bruno Zanuttini. Probabilistic knowledge-based programs. In Qiang Yang and Michael Wooldridge, editors, *Proc. 24th International Joint Conference on Artificial Intelligence (IJCAI 2015)*, pages 1594–1600. AAAI Press, 2015.

4. Martin Cooper, Achref El Mouelhi, Cyril Terrioux, and Bruno Zanuttini. On broken triangles. In Barry O’Sullivan, editor, *Proc. 20th International Conference on Principles and Practice of Constraint Programming (CP 2014)*, volume 8656 of *Lecture Notes in Computer Science*, pages 9–24. Springer, 2014. Best technical paper.
5. Damien Bigot, H el ene Fargier, J er ome Mengin, and Bruno Zanuttini. Probabilistic conditional preference networks. In Ann Nicholson and Padhraic Smyth, editors, *Proc. 29th Conference on Uncertainty in Artificial Intelligence (UAI 2013)*, 2013.
6. Paul Weng and Bruno Zanuttini. Interactive value iteration for Markov decision processes with unknown rewards. In Francesca Rossi, editor, *Proc. 23rd International Joint Conference on Artificial Intelligence (IJCAI 2013)*, 2013.
7. J er ome Lang and Bruno Zanuttini. Knowledge-based programs as plans: The complexity of plan verification. In Luc De Raedt, editor, *Proc. 20th European Conference on Artificial Intelligence (ECAI 2012)*, pages 504–509, 2012. Acceptance rate: 28 %.
8. Fr ed eric Koriche and Bruno Zanuttini. Learning conditional preference networks. *Artificial Intelligence*, 174:685–703, 2010.
9. Fr ed eric Koriche and Bruno Zanuttini. Learning conditional preference networks with queries. In Craig Boutilier, editor, *Proc. 21st International Joint Conference on Artificial Intelligence (IJCAI 2009)*, pages 1930–1935, 2009. Distinguished paper. Acceptance rate: 25.6 %.
10.  Elise Bonzon, Marie-Christine Lagasquie-Schiex, J er ome Lang, and Bruno Zanuttini. Compact preference representation and Boolean games. *Journal of Autonomous Agents and Multi-Agent Systems*, 18(1):1–35, 2009.
11. Gustav Nordh and Bruno Zanuttini. What makes propositional abduction tractable. *Artificial Intelligence*, 172:1245–1284, 2008.
12.  ngel J. Gil, Miki Hermann, Gernot Salzer, and Bruno Zanuttini. Efficient algorithms for description problems over finite totally ordered domains. *SIAM Journal on Computing*, 38(3):922–945, 2008.
13. Nadia Creignou, Phokion G. Kolaitis, and Bruno Zanuttini. Structure identification of Boolean relations and plain bases for co-clones. *Journal of Computer and System Sciences*, 74(7):1103–1115, 2008.

## 6 Administrative charges

- *Since 2005*: animator of the weekly internal workshop of the MAD group in GREYC

- *2006–2012*: cohead (with Brigitte Vallée) of master AMI (“Algorithms and Information Models”)
- *January, 2007–August, 2008*: elected member of the committee for assistant professor positions, UCBN
- *Since November, 2007*: elected member of the Computer Science dept council, UCBN
- *Since March, 2008*: elected member of the GREYC laboratory council, UCBN
- *May, 2009*: member of two committees for assistant professor positions, LRI, Paris Sud/Orsay University
- *May, 2010*: member of two committees for assistant professor positions, GREYC laboratory, UCBN
- *Since January, 2011*: head of research group Models, Agents, Decision (MAD) at the GREYC lab
- *Since September, 2012*: head of master DECIM (“Decision and Optimisation”)
- *Since December, 2016*: membre of the maths-computer sciences department council, UCBN

## 7 Program committees

- *PC chair*:
  - RJCIA 2007: Rencontres des Jeunes Chercheurs en Intelligence Artificielle (“National Symposium of Young Researchers in Artificial Intelligence”)
  - JFPDA 2011: Journées Francophones de Planification, Décision et Apprentissage pour la conduite de systèmes (“French-Speaking Conference on Planning, Decision and Learning for system control”)
- *PC member (international conferences)* :
  - AI 2007: Australian Joint Conference on Artificial Intelligence
  - AAAI 2010–2013, 2016–2018: AAAI Conference on Artificial Intelligence
  - ECAI 2010, 2012, 2014: European Conference on Artificial Intelligence
  - IJCAI 2011, 2013: International Joint Conference on Artificial Intelligence

- IJCAI 2015, 2016, 2017: Senior PC Member
- KR 2012, 2014: International Conference on the Principles of Knowledge Representation and Reasoning
- ICAART 2014, 2016: International Conference on Agents and Artificial Intelligence
- *PC member (national conferences) :*
  - RJCIA 2005 and 2009: Rencontres des Jeunes Chercheurs en Intelligence Artificielle (“National Symposium of Young Researchers in Artificial Intelligence”)
  - MajecSTIC 2007: MANifestation des JEunes Chercheurs en Sciences et Technologies de l’Information et de la Communication (“Symposium of Young Researchers in Information and Communication Sciences”)
  - JFPC 2009, 2013, 2016: Journées Francophones de Programmation par Contraintes (“French-Speaking Symposium on Constraint Programming”)
  - RFIA 2010, 2012, 2014: Reconnaissance des Formes et Intelligence Artificielle (“Pattern Recognition and Artificial Intelligence”)
  - CAp 2010: Conférence francophone sur l’Apprentissage artificiel (“French-Speaking Conference on Artificial Learning”)
  - JFPDA 2011–2016: Journées Francophones de Planification, Décision et Apprentissage pour la conduite de systèmes (“French-Speaking Conference on Planning, Decision and Learning for system control”)
  - CNIA 2016: Conférence Nationale en Intelligence Artificielle (“National Conference on Artificial Intelligence”)
- *Reviewer:* JELIA 2006, CP 2006, IJCAI 2007, STACS 2007, ICTAI 2007, J. AAMAS (2007), ISAIM 2008, AAAI 2008, CP 2008, CSL 2008, AIJ (2008, 2012, 2014, 2015), Information Systems (2008), JCSS (2009), CJTCS (2009), AIJ (2008), SAT 2009, ACM ToCL (2009), JAIR (2010, 2011, 2012, 2013, 2014), TCS (2010), JFPDA 2010, JLC (2010), AI Communications (2010), LICS 2011, LICS 2015, KAIS (2011, 2012, 2015), CSL (2013), IEEE Trans. Cybernetics (2013), IJAR (2014, 2015), STACS 2016...

## 8 Research supervision

- *2006/2007:* main supervisor for Sébastien Picant’s PhD, “Application of formal verification algorithms to the validation of C and SystemC code” (with industrial society Aeriologic, premature end for economical reasons)
- *October, 2008-December, 2011:* supervisor of Boris Lesner’s PhD, “benefits of symbolic reasoning for representing and solving decision problems”

(national grant): publications during the PhD in national conferences JF-PDA 2009 and 2010, RJCIA 2009 (best paper award), in national journal RIA (2010), in ICAPS 2011, and in EWRL 2011. Defence on December 8, 2011 (reviewers Yann Chevaleyre, Olivier Sigaud, examiners Olivier Buffet, Abdel-Ilhah Mouaddib, Bruno Scherrer).

- *October, 2011–February, 2015*: cosupervisor of Damien Bigot’s PhD, “Preference Representation and Learning” (national grant, supervisors H el ene Fargier and J er ome Mengin, IRIT, Toulouse): publications during the PhD at PL@ECAI 2012, UAI 2013, and STAIRS 2014. Defence on February 25th, 2015 (reviewers Patrice Perny, Fr ed eric Koriche, examiners Martin Cooper, J er ome Lang).
- *Since January, 2014*: supervisor of Esther Nicart’s PhD, “Intuitive Feedback in a Man-Machine Collaboration”, in collaboration with Airbus Defence & Space (formerly EADS/CASSIDIAN) then Cordon Electronics, defence planned on February 6th, 2017
- *Since October, 2015*: supervisor of Florian Benavent’s PhD, “Taking the User’s Recommendations into Account for Intelligent Digital Services”, funded by the “R egion Basse-Normandie”
- *Since October, 2016*: supervisor of Christopher Leturc’s PhD, “Incentive mechanisms for fighting against manipulations in reputation systems” (national grant), cosupervisor Gr egory Bonnet

## 9 Participation in PhD committees

- *2007*: committee member for  Elise Bonzon’s PhD, “Modelling of Interactions between Rational Agents: Boolean Games”, defended at the IRIT (Toulouse) November 13th, 2007
- *2008*: committee member for Gauvain Bourgne’s PhD, “Propagation and Refinement of Hypotheses under Communication Constraints”, defended at the LAMSADE (Paris-Dauphine) March 14th, 2008
- *2011*: committee member for S ebastien Picant’s PhD, “Definition of an Operational Model for Dynamic Handling of Exceptions in the Setting of B2B Exchanges without Prior Agreement”, defended at the GREYC (Caen) March 18th, 2011
- *2012*: committee member for Alexandre Niveau’s PhD, “Knowledge Compilation for Online Decision: Application to the Control of Autonomous Systems”, defended at the IRIT (Toulouse) March 27th, 2011
- *2012*: reviewer for Johannes Schmidt’s PhD, “complexity classifications for nonmonotonic reasoning and enumeration”, defended at the LIF (Marseille) October 16th, 2012

- *2012*: reviewer for Mathieu Bonneau’s PhD, “optimal adaptive sampling in Markov networks, applications to sampling of invasive species”, defended at the INRA (Toulouse) November 30th, 2012
- *2012*: committee member for Benoît Romito’s PhD, “Decentralized Adaptive Storage: Autonomy and Mobility of Data in Peer-to-Peer Networks”, defended at the GREYC (Caen) December 11th, 2012
- *2012*: reviewer for Christophe Rodrigues’ PhD, “Incremental Learning of Relational Action Models”, defended at the LIPN (Paris 13) January 21st, 2013
- *2013*: committee member for Johann Brault-Baron’s PhD, “On the Relevance of Enumeration”, defended at the GREYC (Caen) April 18th, 2013
- *2013*: reviewer for Anaïs Cadilhac’s PhD, “Preference Extraction and Reasoning in Negotiation Dialogues”, defended at the IRIT (Toulouse) November 29th, 2013
- *2014*: committee member for Thi-Van-Anh Nguyen’s PhD, “Constraint Games: Modeling and Solving Games with Constraints”, defended at the GREYC (Caen) December 12th, 2014
- *2015*: reviewer for Nicolas Schmidt’s PhD, “Preference Compilation — Application to Product Configuration”, defended at the CRIL (Lens) September 17th, 2015
- *2015*: committee member for Nicolas Drougard’s PhD, “Exploiting imprecise information sources in sequential decision making problems under uncertainty”, defended at the IRIT (Toulouse) December 18th, 2015
- *2016*: committee member for Florent Capelli’s PhD, “Structural restrictions of CNF-formulas: applications to model counting and knowledge compilation”, defended at the ELM (Paris 7) June 27th, 2016
- *2016*: committee member for Faustine Maffre’s PhD, “Ignorance is bliss: observability-based dynamic epistemic logics and their applications”, defended at the IRIT (Toulouse) September 23, 2016
- *2016*: reviewer for Pegah Alizadeh’s PhD, “Elicitation and Planning in Markov Decision Processes with Unknown Rewards”, defended at the LIPN (Paris Nord) December 9th, 2016
- *2016*: external examiner for Eisa Alanazi’s PhD, “Conditional Preference Networks: Learning and Optimization”, defended at the university of Regina (Canada) December 12th, 2016
- *2016*: reviewer for Samuel Thomas’ PhD, “Knowledge Compilation for Model Counting”, defended at the CRIL (Lens) December 14th, 2016

## 10 Internship supervision

- *2011/2012*: supervision of Antoine Leveugle’s 2nd year internship, “software application for demonstrating work in Artificial Intelligence” (10 weeks)
- *2012/2013*: supervision of Paul Le Denn’s 2nd year internship, “data gathering for a software application which learns a user’s habits” (10 weeks)
- *2013/2014*: supervision of Florian Bénavent’s 5th year internship, “implementation of a Java library of problems and algorithms in Artificial Intelligence” (3 days per week during 6 months)
- *2013/2014*: supervision of François Danguy’s 2nd year internship, “simulation of traffic management with intelligent traffic lights” (10 weeks)

## 11 Funded projects and invitations

- *January, 2005*: one week stay in the Technical University of Vienna (Austria) in Gernot Salzer’s group
- *January, 2006*: one week stay in the University of Linköping (Sweden) in Gustav Nordh and Peter Jonsson’s group
- *November, 2006 to May, 2010*: local coordinator for project *Constraint Acquisition aNd Automatic Reformulation* (CANAR, national grant ANR-06-BLAN-0383-02)
- *December, 2010 to December, 2014*: general coordinator for project *Learning And Reasoning for Deciding Optimally using Numerical and Symbolic information* (LARDONS, national grant ANR-2010-BLAN-0215)
- *October, 2010 to October, 2014*: local coordinator for project *Tractability for Understanding and Pushing forward the Limits of Efficient Solving* (TUPLES, national grant ANR-2010-BLAN-0210)
- *January, 2012 to January, 2015*: involvement in project *Business Recommendation for Configurable Products* (BR4CP, national grant ANR-11-BS02-0008)
- *Since December, 2017*: coordination for the GREYC lab of project Pep-Traq, with researchers in life sciences (regional grant)

## 12 Animation of research

- *2005*: member of the organization committee for MFI (French conference on Formal Models of Interaction) at the UCBN
- *2010*: member of the organization committee for RFIA (French Conference on Pattern Recognition and Artificial Intelligence)



- *2010*: cochair (with Samir Loudni) for the organization of JFPC 2010 (French-Speaking Conference on Constraint Programming)
- *June, 2007–June, 2013*: elected member of the executive board of the French Association for Constraint Programming (AFPC)
- *2013*: member of the organization committee for ALCOSP (Adaptation and Learning in COntrol and Signal Processing)
- *Since June, 2013*: cohead of the French research group “Fundamental Artificial Intelligence” (IAF)
- *March, 2014*: reviewer of a project submitted to the Israel Science Foundation
- *September, 2014*: coorganizer (with Martin C. Cooper, Philippe Jégou, Lakhdar Saïs) of the workshop “Bridging the Gap Between Theory and Practice” at the conference CP 2014 (International Conference on Principles and Practice of Constraint Programming)
- *December, 2014*: reviewer of a project submitted to the *Fonds de recherche du Québec – Nature et technologies*
- *2017*: member of the organization committee for “Plate-forme AFIA” (French Association for Artificial Intelligence)

## 13 Teaching

Main matters taught since 2003.

- *Around Software Engineering*:
  - Computer Science Methodology
  - UML Notation
  - Object-Oriented Conception and Software Engineering
  - Project Management and UML
- *Around Problem Modelling*:
  - Mathematical and Computer Modelling
  - Logic
- *Around Artificial Intelligence*:
  - Logic
  - Reasoning in Logic
  - Planning and reinforcement learning

- *Around Algorithmics:*
  - Mathematical and Computer Modelling
  - Algorithmics
  - Algorithmic Techniques
- *Around the Web:*
  - HTML
  - Security for Webmasters
  - PHP
  - JEE

## 14 Popularization

- *2002–2005:* development of softwares tools **AASeq** and **AARand** with Joël Henry (PE2M lab, UCBN). The use of these tools gave rise to publications in life sciences (see list below).

### Publications in life sciences

- Céline Zatylny-Gaudin, Valérie Cornet, Alexandre Leduc, Bruno Zanuttini, Erwan Corre, Gildas Le Corguillé, Benoît Bernay, Johan Garderes, Alexandra Kraut, Yohan Couté, and Joël Henry. Neuropeptidome of the cephalopod *sepia officinalis*: Identification, tissue mapping, and expression pattern of neuropeptides and neurohormones during egg laying. *Journal of Proteome Research*, 15(1):48–67, 2016.
- Valérie Cornet, Joël Henry, Erwan Corre, Gildas Le Corguille, Bruno Zanuttini, and Céline Zatylny-Gaudin. Dual role of the cuttlefish salivary proteome in defense and predation. *Journal of Proteomics*, 108:209–222, 2014.
- Céline Zatylny-Gaudin, Benoît Bernay, Bruno Zanuttini, Jérôme Leprince, Hubert Vaudry, and Joël Henry. Characterization of a novel LFRFamide neuropeptide in the cephalopod *Sepia officinalis*. *Peptides*, 31(2):207–214, 2010.
- Benoît Bernay, Michèle Baudy-Floc’h, Bruno Zanuttini, Céline Zatylny, Stéphane Pouvreau, and Joël Henry. Ovarian and sperm regulatory peptides regulate ovulation in the oyster *Crassostrea gigas*. *Molecular Reproduction and Development*, 73(5):607–616, 2006.
- Benoît Bernay, Michèle Baudy-Floc’h, Bruno Zanuttini, Jean Gagnon, and Joël Henry. Identification of SepCRP analogues in the cuttlefish *Sepia officinalis*: A novel family of ovarian regulatory peptides. *Biochemical and Biophysical Research Communications*, 338(2):1037–1047, 2005.

- S. Gaudron, Bruno Zanuttini, and Joël Henry. Yolk protein in the cephalopod *Sepia officinalis*: a strategy for structural characterisation. *Invertebrate Reproduction and Development*, 48(1–3):129–135, 2005.

## 15 Personal

- *2009–2011*: Vice-president of the UCBN nursery (associative status, 19 employees, annual budget 650 000 euros)

## References

- [1] Peter Jonsson, Victor Lagerkvist, Gustav Nordh, and Bruno Zanuttini. Strong partial clones and the time complexity of SAT problems. *Journal of Computer and System Sciences*, 84:52–78, 2017. CORE Ranking: A\*.
- [2] Esther Nicart, Bruno Zanuttini, Hugo Gilbert, Bruno Grillhères, and Frédéric Praca. Building document treatment chains using reinforcement learning and intuitive feedback. In Amol Mali and Miltos Alamaniotis, editors, *Proc. 28th International Conference on Tools with Artificial Intelligence (ICTAI 2016)*, 2016. CORE Ranking: B.
- [3] Martin C. Cooper, Achref El Mouelhi, Cyril Terrioux, and Bruno Zanuttini. On broken triangles. In Subbarao Kambhampati, editor, *Proc. 25th International Joint Conference on Artificial Intelligence (IJCAI 2016)*, pages 4135–4139. AAAI Press, 2016. Sister conference paper (best of CP). CORE Ranking: A\*.
- [4] Alexandre Niveau and Bruno Zanuttini. Efficient representations for the modal logic S5. In Subbarao Kambhampati, editor, *Proc. 25th International Joint Conference on Artificial Intelligence (IJCAI 2016)*, pages 1223–1229. AAAI Press, 2016. CORE Ranking: A\*.
- [5] Esther Nicart, Bruno Zanuttini, Hugo Gilbert, Bruno Grillhères, and Frédéric Praca. Building document treatment chains using reinforcement learning and intuitive feedback. In Damien Pellier, editor, *Proc. 11es Journées Francophones sur la Planification, la Décision et l’Apprentissage pour la conduite de systèmes (JFPDA 2016)*, 2016.
- [6] Esther Nicart, Bruno Zanuttini, Bruno Grillhères, and Frédéric Praca. Dora Q-learning - making better use of explorations. In Damien Pellier, editor, *Proc. 11es Journées Francophones sur la Planification, la Décision et l’Apprentissage pour la conduite de systèmes (JFPDA 2016)*, 2016.
- [7] Florian Benavent and Bruno Zanuttini. Intégration de recommandations simples dans un MDP. In Damien Pellier, editor, *Proc. 11es Journées Francophones sur la Planification, la Décision et l’Apprentissage pour la conduite de systèmes (JFPDA 2016)*, 2016. In French.

- [8] Alexandre Niveau and Bruno Zanuttini. Représentations efficaces pour la logique modale S5. In Tiago de Lima and Bruno Zanuttini, editors, *Proc. 10es Journées d'Intelligence Artificielle Fondamentale (IAF 2016)*, 2016. In French.
- [9] Hugo Gilbert, Bruno Zanuttini, Paul Weng, Paolo Viappiani, and Esther Nicart. Model-free reinforcement learning with skew-symmetric bilinear utilities. In Alexander Ihler and Dominik Janzing, editors, *Proc. 32nd Conference on Uncertainty in Artificial Intelligence (UAI 2016)*, pages 252–261. AUAI Press, 2016. CORE Ranking: A\*.
- [10] Martin C. Cooper, Aymeric Duchain, Achref El Mouelhi, Guillaume Escamocher, Cyril Terrioux, and Bruno Zanuttini. Broken triangles: From value merging to a tractable class of general-arity constraint satisfaction problems. *Artificial Intelligence*, 234:196–218, 2016. CORE Ranking: A\*.
- [11] Martin Cooper, Achref El Mouelhi, Cyril Terrioux, and Bruno Zanuttini. Autour des triangles cassés. In Gilles Audemard, editor, *Proc. 11es Journées Francophones de Programmation par Contraintes (JFPC 2015)*, 2015. In French.
- [12] Jérôme Lang and Bruno Zanuttini. Probabilistic knowledge-based programs. In Qiang Yang and Michael Wooldridge, editors, *Proc. 24th International Joint Conference on Artificial Intelligence (IJCAI 2015)*, pages 1594–1600. AAAI Press, 2015. CORE Ranking: A\*.
- [13] Bruno Zanuttini. Sur des propriétés structurelles des formules de horn. In Nicolas Maudet and Bruno Zanuttini, editors, *Proc. 9es Journées d'Intelligence Artificielle Fondamentale (IAF 2015)*, 2015. In French.
- [14] Anaëlle Wilczynski, Bruno Zanuttini, and Jérôme Lang. Génération de plans à base de connaissances. In Frédéric Maris, editor, *Proc. 10es Journées Francophones sur la Planification, la Décision et l'Apprentissage pour la conduite de systèmes (JFPDA 2015)*, 2015. In French.
- [15] Victor Lagerkvist, Magnus Wahlström, and Bruno Zanuttini. Bounded bases of strong partial clones. In Gerhard Dueck, editor, *Proc. 45th International Symposium on Multiple-Valued Logic (ISMVL 2015)*, pages 189–194. IEEE, 2015.
- [16] Esther Nicart, Bruno Zanuttini, Bruno Grillhères, and Patrick Giroux. Amélioration continue d'une chaîne de traitement de documents avec l'apprentissage par renforcement. In Marie-Hélène Abel, editor, *Proc. des 26es journées francophones d'Ingénierie des Connaissances (IC 2015)*, 2015. In French.
- [17] Damien Bigot, Jérôme Mengin, and Bruno Zanuttini. Learning probabilistic CP-nets from observations of optimal items. In Ulle Endriss and João Leite, editors, *Proc. 7th Starting AI Researcher Symposium*

(*STAIRS 2014*), volume 264 of *Frontiers in Artificial Intelligence and Applications*, pages 81–90, 2014.

- [18] Damien Bigot, Jérôme Mengin, and Bruno Zanuttini. Apprentissage de CP-nets probabilistes. In Mounir Ben Ayed and Philippe Leray, editors, *Proc. Journées Francophones sur les Réseaux Bayésiens et les Modèles Graphiques Probabilistes (JFRB 2014)*, 2014. In French.
- [19] Martin Cooper, Achref El Mouelhi, Cyril Terrioux, and Bruno Zanuttini. On broken triangles. In Barry O’Sullivan, editor, *Proc. 20th International Conference on Principles and Practice of Constraint Programming (CP 2014)*, volume 8656 of *Lecture Notes in Computer Science*, pages 9–24. Springer, 2014. Best technical paper. CORE Ranking: A.
- [20] Thibaut Vallée, Grégory Bonnet, Bruno Zanuttini, and François Bourdon. A study of sybil manipulations on hedonic games. In Alessio Lomuscio and Paul Scerri, editors, *Proc. 13th International Conference on Autonomous Agents and Multiagent Systems*, pages 21–28, 2014. CORE Ranking: A\*.
- [21] Fabien Chhel, Frédéric Lardeux, Frédéric Saubion, and Bruno Zanuttini. Application du problème de caractérisation multiple à la conception de tests de diagnostic pour la biologie végétale. *Revue d’intelligence artificielle*, 4–5:649–668, 2013. In French.
- [22] Jérôme Lang and Bruno Zanuttini. Knowledge-based programs as plans: Succinctness and the complexity of plan existence. In Rémi Munos, editor, *Proc. 8es Journées Francophones sur la Planification, la Décision et l’Apprentissage pour la conduite de systèmes (JFPDA 2013)*, 2013.
- [23] Thibaut Vallée, Grégory Bonnet, Bruno Zanuttini, and François Bourdon. étude des attaques sybil sur les jeux hédoniques. In Élise Bonzon and Laurence Cholvy, editors, *Proc. 7es journées francophones sur les Modèles Formels de l’Interaction (MFI 2013)*, 2013. In French.
- [24] Nicolas Côté, Bruno Zanuttini, Maroua Bouzid, and Abdel-illah Mouadib. Prise en compte des recommandations de l’humain dans le processus décisionnel d’un agent. In Élise Bonzon and Laurence Cholvy, editors, *Proc. 7es journées francophones sur les Modèles Formels de l’Interaction (MFI 2013)*, 2013. In French.
- [25] Damien Bigot, Hélène Fargier, Jérôme Mengin, and Bruno Zanuttini. Probabilistic conditional preference networks. In *Proc. 7es Journées de l’Intelligence Artificielle Fondamentale*, 2013.
- [26] Damien Bigot, Hélène Fargier, Jérôme Mengin, and Bruno Zanuttini. Probabilistic conditional preference networks. In Ann Nicholson and Padhraic Smyth, editors, *Proc. 29th Conference on Uncertainty in Artificial Intelligence (UAI 2013)*. AUAI Press, 2013. CORE Ranking: A\*.

- [27] Paul Weng and Bruno Zanuttini. Interactive value iteration for Markov decision processes with unknown rewards. In Francesca Rossi, editor, *Proc. 23rd International Joint Conference on Artificial Intelligence (IJCAI 2013)*, 2013. CORE Ranking: A\*.
- [28] Bruno Zanuttini, Guillaume Laurent, and Olivier Buffet, editors. *Apprentissage par renforcement et planification adaptative*, volume 27 of *Revue d'Intelligence Artificielle*. Lavoisier, 2013.
- [29] Achref El Mouelhi, Philippe Jégou, Cyril Terrioux, and Bruno Zanuttini. Some new tractable classes of CSPs and their relations with backtracking algorithms. In Carla Gomes and Meinolf Sellmann, editors, *Proc. 10th International Conference on Integration of AI and OR Techniques in Constraint Programming (CPAIOR 2013)*, volume 7874 of *Lecture Notes in Computer Science*, pages 61–76. Springer, 2013. CORE Ranking: B.
- [30] Jérôme Lang and Bruno Zanuttini. Knowledge-based programs as plans: Succinctness and the complexity of plan existence. In Burkhard C. Schipper, editor, *Proc. 14th conference on Theoretical Aspects of Rationality and Knowledge (TARK 2013)*, 2013. CORE Ranking: A.
- [31] Peter Jonsson, Victor Lagerkvist, Gustav Nordh, and Bruno Zanuttini. Complexity of SAT problems, clone theory and the exponential time hypothesis. In Sanjeev Khanna, editor, *Proc. 24th Annual ACM-SIAM Symposium on Discrete Algorithms (SODA 2013)*, pages 1264–1277, 2013. CORE Ranking: A\*.
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