

# Nina Narodytska

## Curriculum Vitae

### Research interests

My primary research interests are in deep learning, algorithm design, discrete optimization.

### Employment

#### Research

- 07/2015–now **Staff Research Engineer**, *Samsung Research America*, Mountain View, USA.
- 11/2014–07/2015 **Postdoctoral Research Fellow**, *Carnegie Mellon University*, Pittsburgh, USA.
- 06/2013–09/2014 **Postdoctoral Research Fellow**, *University of Toronto*, Toronto, Canada.
- 10/2011–06/2016 **Conjoint Lecturer/Researcher**, *University of New South Wales*, Sydney, Australia.
- 01/2011–05/2013 **Researcher**, *Optimization group, NICTA*, Sydney, Australia.

#### Internships

- 09/2010–11/2010 **Software Engineer Intern**, *Google*, Sydney, Australia.
- 09/2009–10/2009 **Research Intern**, *Planning and Scheduling Team, ISTC-CNR*, Rome, Italy.
- 06/2009–09/2009 **Research Intern**, *Constraint Programming Lab, Microsoft Research*, Cambridge, UK.
- 06/2005–06/2006 **Research Intern**, *Knowledge Representation and Reasoning Lab, NICTA*, Sydney, Australia.

#### Development

- 06/2001–12/2004 **Software Engineer**, *WestGate Software Security Inc*, Kyiv, Ukraine.

### Education

- 08/2006–12/2011 **Doctor of Philosophy(Ph.D.) in Computer Science**, *University of New South Wales*, Sydney, Australia, GPA: 95/100.
- 09/1996–06/2002 **Master of Science (M.Sc.) by Research with honors in Computer Science**, *National Technical University of Ukraine*, Kyiv, Ukraine, GPA: 4.9/5.

### Awards

ImageNet **Ranked among the top 10 teams in the ImageNet competition in two categories: "Scene recognition track" and "Object detection from video track".**

- o 8th place in "Object detection from video" (with Hojjat Seyed Mousavi, Da Zhang, Hamid Maei, Shiva Kasiviswanathan), invited to present a poster at 2nd ILSVRC+COCO Workshop.
- o 8th place in "Scene Classification" (with Hamid Maei, Shiva Kasiviswanathan).
- o This work was selected to represent Samsung Research America at Grace Hopper Celebration of Women in Computing (GHC'2016).

IEEE **Named one of AI's 10 to Watch.**

- o Every two years, IEEE Intelligent Systems acknowledges and celebrates 10 young stars in the field of AI as 'AI's 10 to Watch', 2013.
- o Media coverage: *Computing Now*, *IEEE Journal*, *Technology*, *PaceToday*, *University of New South Wales News* and *University of Toronto News*.

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- CAV'2016 **TermiteSAT Solver ranked second in Reactive Synthesis Competition.**  
 o AIGER Parallel Realizability track (with Alex Legg, Leonid Ryzhyk, Adam Walker)
- FLoC Olympic **EvaMaxSAT Solver is a winner of the Ninth Evaluation of Max-SAT Solvers.**  
 Games o EvaMaxSAT Solver is the best overall MaxSAT solver in the industrial category in the Ninth Evaluation of Max-SAT Solvers among non-portfolio solvers. **Award ceremony.**  
 o One gold and two bronze medals in industrial category.
- IJCAI **The most educational video award.**  
 o The video Algorithmic Decision Theory @ NICTA (with Haris Aziz, Serge Gaspers, Nicholas Mattei, and Toby Walsh) received the award at IJCAI-2013.  
 o IJCAI announcement and Algorithmic Decision Theory @ NICTA video
- AI-2012 **Outstanding programme committee member award.**
- AAAI **AAAI-2011 outstanding paper award.**
- NICTA **NICTA International Postgraduate Award and NICTA Research Project Award scholarships.**
- ACP **Honorable mention at ACP Doctoral Research Award 2012.**
- UNSW **Nominated for Australasian Distinguished Doctoral Dissertation from School of Computer Science and Engineering, University of New South Wales, Sydney, Australia.**
- UNSW **First prize in the Digital Future category, Dean's Postgraduate Research Award, 2010.**
- Google **Finalist in the Google Australia & New Zealand 2009 Anita Borg Memorial Scholarship and Google Global Community Scholarship.**
- AAAI, IJCAI **Student travel grants to attend top AI conference during my PhD (\$16500).**

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## Recent Activities

- ACP **Elected member of the Executive Committee, Association for Constraint Programming.**
- Chair **(Co)-chair service.**  
 o Tutorial chair, Australasian Joint Conference on AI, AI-2015  
 o Workshop on Exploring Beyond the Worst Case in Computational Social Choice, EXPLORE-2014, 2015  
 o Constraint Programming Doctoral Program, 2013  
 o International Workshops on Symmetry in Constraint Satisfaction Problems, SymCon-2012, 2011

- (Senior) PC, **Senior PC or PC member.**  
 journals reviewer o International Conference on Theory and Applications of Satisfiability Testing, SAT-2016, 2015  
 o International Joint Conference on Autonomous Agents and Multiagent Systems, AAMAS-2016, 2015  
 o AAAI Conference on Artificial Intelligence, AAAI-2016, 2015, 2013, 2012, 2011,  
 o International Joint Conference on Artificial Intelligence, IJCAI- 2016, 2015, 2013, 2011  
 o Principles and Practice of Constraint Programming, CP-2016, CP-2014, 2012  
 o Integration of AI and OR Techniques in Constraint Programming, CPAIOR-2015, 2014, 2012  
 o Pacific Rim International Conference on Artificial Intelligence, PRICAI-2016, 2014  
 o Australasian Joint Conference on Artificial Intelligence, AI-2016,2013,2012  
 o Artificial Intelligence; Journal of Artificial Intelligence Research; Autonomous Agents and Multi-Agent Systems; Annals of Mathematics and Artificial Intelligence; Constraints; Journal of Heuristics; INFORMS Journal on Computing

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## Publications

### Journals

- [J1] Nina Narodytska, Thierry Petit, Mohamed Siala, and Toby Walsh. "Three Generalizations of the FOCUS Constraint". In: *Constraints (accepted)* (2015).

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- [J2] Jessica Davies, George Katsirelos, Nina Narodytska, Toby Walsh, and Lirong Xia. “Complexity of and algorithms for the manipulation of Borda, Nanson’s and Baldwin’s voting rules”. In: *Artificial Intelligence* 217 (2014), pp. 20–42.
- [J3] Michael R. Fellows, Tobias Friedrich, Danny Hermelin, Nina Narodytska, and Frances A. Rosamond. “Constraint satisfaction problems: Convexity makes AllDifferent constraints tractable.” In: *Theor. Comput. Sci.* 472 (2013), pp. 81–89.
- [J4] Lucas Bordeaux, George Katsirelos, Nina Narodytska, and Moshe Y. Vardi. “The Complexity of Integer Bound Propagation.” In: *Journal of Artificial Intelligence Research* 40 (2011), pp. 657–676.
- [J5] George Katsirelos, Nina Narodytska, and Toby Walsh. “The weighted Grammar constraint.” In: *Annals OR* 184.1 (2011), pp. 179–207.
- [J6] George Katsirelos, Nina Narodytska, and Toby Walsh. “Combining Symmetry Breaking and Global Constraints”. In: *Recent Advances in Constraints* (2008), pp. 323–327.
- [J7] Nina Narodytska and Toby Walsh. “Constraint and variable ordering heuristics for compiling configuration problems”. In: *IEEE Intelligent Systems* Jan/Feb (2007), pp. 78–80.
- [J8] Nina Narodytska and Vladimir Podladchikov. “Methods for cointegration constant estimation under a priori indeterminism”. In: *System Research and Information Technologies Journal (in Russian)* 2 (2003), pp. 84–91.

#### Conferences

- [C1] Alexander Legg, Nina Narodytska, and Leonid Ryzhyk. “A SAT-Based Counterexample Guided Method for Unbounded Synthesis”. In: *Computer Aided Verification (CAV’16)*. 2016.
- [C2] Omer Reingold and Nina Narodytska. “Adaptive Condorcet-based Stopping Rules can be Efficient”. In: *Proceedings of the 25th European Conference on Artificial Intelligence (ECAI’16)*. 2016.
- [C3] Haris Aziz, Serge Gaspers, Simon Mackenzie, Nicholas Mattei, Nina Narodytska, and Toby Walsh. “Equilibria Under the Probabilistic Serial Rule.” In: *Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI’15)*. 2015.
- [C4] Haris Aziz, Serge Gaspers, Simon Mackenzie, Nicholas Mattei, and Toby Walsh. “Manipulating the Probabilistic Serial Rule”. In: *Proceedings of the 15th International conference on Autonomous Agents and Multi-Agent Systems (AAMAS’15)*. 2015.
- [C5] Nikolaj Bjorner and Nina Narodytska. “Maximum Satisfiability Using Cores and Correction Sets.” In: *Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI’15)*. 2015.
- [C6] Niklas Een, Alexander Legg, Nina Narodytska, and Leonid Ryzhyk. “SAT-based Strategy Extraction in Reachability Games”. In: *Proceedings of the 29th AAAI Conference on Artificial intelligence (AAAI’15)*. 2015.
- [C7] Andrea Loreggia, Francesca Rossi, Brent Venable, and Toby Walsh. “Controlling Elections by Replacing Candidates or Votes”. In: *Proceedings of the 15th International conference on Autonomous Agents and Multi-Agent Systems (AAMAS’15)*. 2015.
- [C8] Fahiem Bacchus and Nina Narodytska. “Cores in Core Based MaxSat Algorithms: An Analysis”. In: *Proceedings of the 17th International Conference on Theory and Applications of Satisfiability Testing (SAT’14)*. Vol. 8561. 2014, pp. 7–15.
- [C9] Christian Bessiere, Emmanuel Hebrard, George Katsirelos, Zeynep Kiziltan, Nina Narodytska, and Toby Walsh. “Reasoning about Constraint Models”. In: *Proceedings of the 8th Mexican International Conference on Artificial Intelligence (PRICAI’14)*. 2014.
- [C10] Serge Gaspers, Victor Naroditskiy, Nina Narodytska, and Toby Walsh. “Possible and Necessary Winner Problem in Social Polls.” In: *Proceedings of the 14th International conference on Autonomous Agents and Multi-Agent Systems (AAMAS’14)*. 2014, pp. 613–620.

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- [C11] Nicholas Mattei, Nina Narodytska, and Toby Walsh. "How Hard Is It to Control an Election by Breaking Ties?" In: *Proceedings of the 24th European Conference on Artificial Intelligence (ECAI'14)*. Vol. 263. 2014, pp. 1067–1068.
- [C12] Nina Narodytska and Fahiem Bacchus. "Maximum Satisfiability Using Core-Guided MaxSAT Resolution (EvaMaxSAT Solver is a winner of the Ninth Evaluation of Max-SAT'2014 Solvers)." In: *Proceedings of the 28th AAAI Conference on Artificial intelligence (AAAI'14)*. 2014, pp. 2717–2723.
- [C13] Nina Narodytska, Alexander Legg, Fahiem Bacchus, Leonid Ryzhyk, and Adam Walker. "Solving Games without Controllable Predecessor". In: *Computer Aided Verification (CAV'14)*. Vol. 8559. 2014, pp. 533–540.
- [C14] Nina Narodytska and Toby Walsh. "The Computational Impact of Partial Votes on Strategic Voting". In: *Proceedings of the 24th European Conference on Artificial Intelligence (ECAI'14)*. Vol. 263. 2014, pp. 657–662.
- [C15] Joel Oren, Nina Narodytska, and Craig Boutilier. "A Game-Theoretic Analysis of Catalog Optimization." In: *Proceedings of the 28th AAAI Conference on Artificial intelligence (AAAI'14)*. 2014, pp. 1463–1470.
- [C16] Haris Aziz, Serge Gaspers, Nicholas Mattei, Nina Narodytska, and Toby Walsh. "Ties Matter: Complexity of Manipulation when Tie-Breaking with a Random Vote." In: *Proceedings of the 27th AAAI Conference on Artificial intelligence (AAAI'13)*. 2013.
- [C17] Christian Bessiere, Remi Coletta, Emmanuel Hebrard, George Katsirelos, Nadjib Lazaar, Nina Narodytska, Claude-Guy Quimper, and Toby Walsh. "Constraint Acquisition via Partial Queries." In: *Proceedings of the 23th International Joint Conference on Artificial Intelligence (IJCAI'13)*. 2013.
- [C18] Geoffrey Chu, Serge Gaspers, Nina Narodytska, Andreas Schutt, and Toby Walsh. "On the Complexity of Global Scheduling Constraints under Structural Restrictions." In: *Proceedings of the 23th International Joint Conference on Artificial Intelligence (IJCAI'13)*. 2013.
- [C19] Serge Gaspers, Thomas Kalinowski, Nina Narodytska, and Toby Walsh. "Coalitional Manipulation for Schulze's Rule". In: *Proceedings of the 13th International conference on Autonomous Agents and Multi-Agent Systems (AAMAS'13)*. 2013, pp. 431–438.
- [C20] Serge Gaspers, Victor Naroditskiy, Nina Narodytska, and Toby Walsh. "Possible and necessary winner problem in social polls (Extended abstract)." In: *Proceedings of the 13th International conference on Autonomous Agents and Multi-Agent Systems (AAMAS'13)*. 2013, pp. 1131–1132.
- [C21] Thomas Kalinowski, Nina Narodytska, and Toby Walsh. "A Social Welfare Optimal Sequential Allocation Procedure." In: *Proceedings of the 23th International Joint Conference on Artificial Intelligence (IJCAI'13)*. 2013.
- [C22] Thomas Kalinowski, Nina Narodytska, Toby Walsh, and Lirong Xia. "Strategic Behavior when Allocating Indivisible Goods Sequentially." In: *Proceedings of the 27th AAAI Conference on Artificial intelligence (AAAI'13)*. 2013.
- [C23] Nina Narodytska, Thierry Petit, Mohamed Siala, and Toby Walsh. "Three Generalizations of the FOCUS Constraint." In: *Proceedings of the 23th International Joint Conference on Artificial Intelligence (IJCAI'13)*. 2013.
- [C24] Nina Narodytska and Toby Walsh. "An Adaptive Model Restarts Heuristic". In: *Proceedings of the 10th International Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems (CPAIOR'13)*. Vol. 7874. 2013, pp. 369–377.
- [C25] Nina Narodytska and Toby Walsh. "Breaking Symmetry with Different Orderings." In: *Proceedings of the 19th International Conference on Principles and Practice of Constraint Programming (CP'13)*. Vol. 8124. 2013, pp. 545–561.

- [C26] Nina Narodytska and Toby Walsh. "Manipulating Two Stage Voting Rules". In: *Proceedings of the 13th International conference on Autonomous Agents and Multi-Agent Systems (AAMAS'13)*. 2013, pp. 423–430.
- [C27] Lucas Bordeaux and Nina Narodytska. "On the Violation of Circuits in Decomposable Negation Normal Form." In: *Australasian Conference on Artificial Intelligence(AI'12)*. 2012, pp. 194–205.
- [C28] Jessica Davies, Nina Narodytska, and Toby Walsh. "Eliminating the Weakest Link: Making Manipulation Intractable?" In: *Proceedings of the 26th AAAI Conference on Artificial intelligence (AAAI'12)*. 2012.
- [C29] Ronald de Haan, Nina Narodytska, and Toby Walsh. "The RegularGcc Matrix Constraint." In: *Australasian Conference on Artificial Intelligence(AI'12)*. Vol. 7691. 2012, pp. 206–217.
- [C30] George Katsirelos, Nina Narodytska, and Toby Walsh. "The SeqBin Constraint Revisited." In: *Proceedings of the 18th International Conference on Principles and Practice of Constraint Programming (CP'12)*. Vol. 7514. 2012, pp. 332–347.
- [C31] Nina Narodytska, Toby Walsh, and Lirong Xia. "Combining Voting Rules Together." In: *Proceedings of the 22th European Conference on Artificial Intelligence (ECAI'12)*. Vol. 242. 2012, pp. 612–617.
- [C32] Christian Bessiere, Nina Narodytska, Claude-Guy Quimper, and Toby Walsh. "The AllDifferent Constraint with Precedences." In: *Proceedings of the 8th International Conference on Integration of AI and OR Techniques in Constaint Programming for Combinatorial Optimization Problems (CPAIOR'11)*. Vol. 6697. 2011, pp. 36–52.
- [C33] Jessica Davies, George Katsirelos, Nina Narodytska, and Toby Walsh. "Complexity of and Algorithms for Borda Manipulation." In: *Proceedings of the 25th AAAI Conference on Artificial intelligence (AAAI'11)*. 2011.
- [C34] Michael R. Fellows, Tobias Friedrich, Danny Hermelin, Nina Narodytska, and Frances A. Rosamond. "Constraint Satisfaction Problems: Convexity Makes AllDifferent Constraints Tractable." In: *Proceedings of the 22th International Joint Conference on Artificial Intelligence (IJCAI'11)*. 2011, pp. 522–527.
- [C35] Nina Narodytska, Toby Walsh, and Lirong Xia. "Manipulation of Nanson's and Baldwin's Rules." In: *Proceedings of the 25th AAAI Conference on Artificial intelligence (AAAI'11)*. 2011.
- [C36] Christian Bessiere, George Katsirelos, Nina Narodytska, Claude-Guy Quimper, and Toby Walsh. "Decomposition of the NValue Constraint." In: *Proceedings of the 16th International Conference on Principles and Practice of Constraint Programming (CP'10)*. Vol. 6308. 2010, pp. 114–128.
- [C37] Christian Bessiere, George Katsirelos, Nina Narodytska, Claude-Guy Quimper, and Toby Walsh. "Propagating Conjunctions of AllDifferent Constraints." In: *Proceedings of the 24th AAAI Conference on Artificial intelligence (AAAI'10)*. 2010.
- [C38] George Katsirelos, Nina Narodytska, and Toby Walsh. "On the Complexity and Completeness of Static Constraints for Breaking Row and Column Symmetry." In: *Proceedings of the 16th International Conference on Principles and Practice of Constraint Programming (CP'10)*. Vol. 6308. 2010, pp. 305–320.
- [C39] Christian Bessiere, George Katsirelos, Nina Narodytska, Claude-Guy Quimper, and Toby Walsh. "Decompositions of All Different, Global Cardinality and Related Constraints." In: *Proceedings of the 21th International Joint Conference on Artificial Intelligence (IJCAI'09)*. 2009, pp. 419–424.
- [C40] Christian Bessiere, George Katsirelos, Nina Narodytska, and Toby Walsh. "Circuit Complexity and Decompositions of Global Constraints." In: *Proceedings of the 21th International Joint Conference on Artificial Intelligence (IJCAI'09)*. 2009, pp. 412–418.
- [C41] George Katsirelos, Sebastian Maneth, Nina Narodytska, and Toby Walsh. "Restricted Global Grammar Constraints." In: *Proceedings of the 15th International Conference on Principles and Practice of Constraint Programming (CP'09)*. Vol. 5732. 2009, pp. 501–508.

- [C42] George Katsirelos, Nina Narodytska, and Toby Walsh. “Reformulating Global Grammar Constraints.” In: *Proceedings of the 6th International Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems (CPAIOR’09)*. Vol. 5547. 2009, pp. 132–147.
- [C43] George Katsirelos, Nina Narodytska, and Toby Walsh. “The Weighted CFG Constraint.” In: *Proceedings of the 5th International Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems (CPAIOR’08)*. Vol. 5015. 2008, pp. 323–327.
- [C44] Michael Maher, Nina Narodytska, Claude-Guy Quimper, and Toby Walsh. “Flow-Based Propagators for the Sequence and Related Global Constraints.” In: *Proceedings of the 14th International Conference on Principles and Practice of Constraint Programming (CP’08)*. Vol. 5202. 2008, pp. 159–174.
- [C45] Sebastian Brand, Nina Narodytska, Claude-Guy Quimper, Peter J. Stuckey, and Toby Walsh. “Encodings of the Sequence Constraint.” In: *Proceedings of the 13th International Conference on Principles and Practice of Constraint Programming (CP’07)*. Vol. 4741. 2007, pp. 210–224.
- [C46] Nina Narodytska and Toby Walsh. “Constraint and Variable Ordering Heuristics for Compiling Configuration Problems.” In: *Proceedings of the 20th International Joint Conference on Artificial Intelligence (IJCAI’07)*. 2007, pp. 149–154.
- [C47] Nina Narodytska and Vladimir Podladchikov. “Application of parametric identification methods in cointegration analysis (in Russian)”. In: *Proceedings of the 8th International Conference on Automatic Control Systems*. Vol. 47. 2002, pp. 8–14.

#### PhD thesis

- [T1] Nina Narodytska. “Reformulation of global constraints”. [www.cse.unsw.edu.au/~ninan/thesis.pdf](http://www.cse.unsw.edu.au/~ninan/thesis.pdf). PhD thesis. The University of New South Wales, Sydney, Australia, 2011.

#### Refereed workshops

- [W1] Niklas Een, Alexander Legg, Nina Narodytska, and Leonid Ryzhyk. “Interpolants in Two-Player Games”. In: *Interpolation: From Proofs to Applicationsv (iPRA’14)*. 2014.
- [W2] Alexander Legg, Nina Narodytska, and Leonid Ryzhyk. “Practical CNF Interpolants Via BDDs”. In: *Interpolation: From Proofs to Applicationsv (iPRA’14)*. 2014.
- [W3] Thomas Kalinowski, Nina Narodytska, Toby Walsh, and Lirong Xia. “Elicitation-free Protocols for Allocating Indivisible Goods.” In: *Proceedings of the 4rd International Workshop on Computational Social Choice(ComSoc’12)*. 2012.
- [W4] Nina Narodytska and Toby Walsh. “Manipulating Two Stage Voting Rules”. In: *Proceedings of the 4rd International Workshop on Computational Social Choice(ComSoc’12)*. 2012.
- [W5] Nina Narodytska and Toby Walsh. “The AtMostSeqCard Revisited.” In: *The Eleventh International Workshop on Constraint Modelling and Reformulation*. 2012.
- [W6] Jessica Davies, George Katsirelos, Nina Narodytska, and Toby Walsh. “An Empirical Study of Borda Manipulation.” In: *Proceedings of the 3rd International Workshop on Computational Social Choice(ComSoc’10)*. 2010.
- [W7] George Katsirelos, Nina Narodytska, and Toby Walsh. “A General Method for Posting Static Symmetry Breaking Constraints Dynamically”. In: *Proceedings of the 8th International Workshop on Symmetry and Constraint Satisfaction Problems(SymCon’08)*. 2008.
- [W8] George Katsirelos, Nina Narodytska, and Toby Walsh. “Dynamic Posting of Static Symmetry Breaking Constraints”. In: *Proceedings of the 8th International Workshop on Symmetry and Constraint Satisfaction Problems(SymCon’08)*. 2008.

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- [W9] Michael Maher, Nina Narodytska, Claude-Guy Quimper, and Toby Walsh. "Flow-Based Propagators for the Sequence and Related Global Constraints". In: *ECAI Workshop on Modeling and Solving Problems with Constraints*. 2008, pp. 54–62.
- [W10] Nina Narodytska and Toby Walsh. "Encodings of the Sequence constraint using the REGULAR constraint". In: *Proceedings of the 13th International Conference on Principles and Practice of Constraint Programming, Doctoral Programme*. 2007.
- [W11] Nina Narodytska and Toby Walsh. "Encodings of the Sequence constraint using the REGULAR constraint". In: *Proceedings of the 13th International Conference on Principles and Practice of Constraint Programming, Doctoral Programme 2007*. 2007.
- [W12] Nina Narodytska and Toby Walsh. "The Cyclic Sequence constraint". In: *Proceedings of the International Conference on Automated Planning and Scheduling (ICAPS'07), Doctoral Programme 2007*. 2007.
- [W13] Nina Narodytska and Toby Walsh. "Constraint and Variable Ordering Heuristics for Compiling Configuration Problems". In: *Proceedings of the Workshop on Configuration affiliated with the 17th European Conference on Artificial Intelligence (ECAI'06)*. 2006, pp. 2–7.
- [W14] Nina Narodytska. "Analysis of comparative statics of open economy mathematical models with floating currency rate (extended abstract)". In: *Proceedings of the Second Postgraduate Students Conference on System Analysis and Information Technologies (in Russian)*. 2000, pp. 72–74.
- [W15] Nina Narodytska. "Study of degenerated case of Markovits problem for financial risk minimization in case of a given portfolio profitability (extended abstract)". In: *Proceedings of the First Postgraduate Students Conference on System Analysis and Information Technologies(in Russian)*. 1999, pp. 52–54.