

## CURRICULUM VITAE

**Assoc. Prof. Dr. Brahim HNIC**

Head of Computer Engineering Department  
Faculty of Computer Sciences  
Izmir University of Economics  
Izmir, Turkey  
E-mail: [brahim.hnich@ieu.edu.tr](mailto:brahim.hnich@ieu.edu.tr)  
Phone: +90 232 4888 254

### Personal Data

*Date of Birth:* 25 February 1975  
*Marital Status:* Married  
*Sex:* Male  
*Nationality:* Tunisian

### Professional Experience

- **Mar. 2007 - date. Head of Computer Engineering Department** at the faculty of Computer Sciences of Izmir University of Economics, Izmir, Turkey;
- **Jan. 2006 - date. Associate Professor** at the faculty of Computer Sciences of Izmir University of Economics, Izmir, Turkey;
- **Oct. 2004 - Dec 2005. Research Fellow** at Professor Eugene Freuder's research lab Cork Constraint Computation Centre, University College Cork, Cork, Ireland;
- **Oct. 2003 - date. Granted the title of Docent in Computer Science** (equivalent to **Associate Professor**) by Uppsala University, Uppsala, Sweden;
- **Aug. 2002 - Sep. 2004. Research Scientist** at the Cork Constraint Computation Center, University College Cork, Cork, Ireland;
- **Jan. 2000 - Dec 2001. Lecturer** at the University College Gaevle, Gaevle, Sweden;
- **Feb. 1999 - Jan. 2000. Instructor** at Uppsala University, Uppsala, Sweden.
- **Sep. 1998 - Jan. 1999. Instructor** at Tampere University of Technology, Tampere, Finland;
- **Sep. 1997 - Jan. 1998. Instructor** at the School of Computer Technology and Programming, Ankara, Turkey.

## Education

- **January 2008.** Obtained the degree of "Habilitation à Diriger des Recherches" (HDR) in Computer Science from the "Laboratoire d'Informatique, de Robotique et de Microélectronique de Montpellier" of "Université de Montpellier II", Montpellier, France.
- **Feb. 1999 - Jan 2003.** PhD. student at the Computer Science Division, Department of Information Science, Uppsala University, Uppsala, Sweden, under the supervision of Prof. Andreas Hamfelt and Prof. Toby Walsh. Obtained the degree of PhD in Computer Science in Jan. 2003;
- **Sep. 1998 - Jan. 1999.** Graduate student in the Department of Information Technology at Tampere University of Technology, Tampere, Finland, under the supervision of Prof. Moncef Gabbouj. Transferred to a PhD programme in Uppsala University, Sweden;
- **Sep. 1997 - June 1998.** Graduate student in the Department of Computer Engineering and Information Science at Bilkent University, Ankara, Turkey, under the supervision of Dr. Pierre Flener. Transferred to an MSc programme in Tampere University of Technology, Finland;
- **Sep. 1993 - June 1997.** Undergraduate student in the Department of Computer Engineering and Information Science at Bilkent University, Ankara, Turkey. Obtained the degree of Bachelor of Science in Computer Science;
- **June 1993.** Obtained the Mathematics division of the Tunisian Baccalaureate degree from the English Pioneer School of Ariana (Tunisia's only English school) with honors.

## Awards, Honors, and Nominations

- **Dec. 2004.** Hnich has been nominated by University College Cork and has been shortlisted (among the 8 finalists out of 41 nominees worldwide) for the President of Ireland Young Researcher Award 2005 (Amount of the grant is up to 1.2 million Euros).
- **Aug. 2004.** Hnich's paper (with E. Hebrard and T. Walsh) presented at the 2004 European Conference on Artificial Intelligence (ECAI) has been selected among the best 11 papers out of 652 submissions from 46 countries worldwide.
- **Aug. 2003.** Hnich's paper (with A.M. Frisch, Z. Kiziltan, I. Miguel, and T. Walsh) presented in the Eighteenth International Joint Conference on Artificial Intelligence (IJCAI) has been selected among the best papers out of 913 submissions.

- **Jan. 2003.** Hnich's PhD Thesis was nominated for the European Coordinating Committee for Artificial Intelligence's best theses award;
- **Sep. 1998 - Jan. 1999.** Full fellowship from the International Center for Signal Processing, Tampere University of Technology, Tampere, Finland;
- **Sep. 1997 - June 1998.** Scholarship from Bilkent University to pursue M.Sc. studies. Top of the graduate students (CGPA: 3.91/4.0);
- **June 1997.** Obtained the Best Senior Project Award on June 1997 at the Department of Computer Engineering, Bilkent University, Turkey (with I. Hammouda and A. Achour);
- **Sep. 1993 - June 1997.** Full scholarship from the Tunisian Ministry of Education to study at Bilkent University.

## Research Funding

- **Sept. 2005.** The research project "Value Chain Optimisation under Supply Uncertainty" is funded by **Bell Labs Ireland** by hiring a post-doc for 2 years. The principle investigators are B. Hnich and A. Tarim.

## Teaching Experience

I was responsible for planning, preparing, developing, and delivering the following courses:

- Object-oriented Programming;
- Operating Systems;
- Discrete Structures of Computer Science;
- Computing Theory;
- Algorithms and Data Structures;
- Concepts of Programming Languages;

## Administrative Duties

Since Mars 2007, I have been appointed the *Head of of Computer Engineering Department*. The Department consists of around 270 students at all levels. I am responsible for the course assignment, course scheduling, designing and updating academic curriculum, hiring new faculty members, and all the administration tasks related to faculty staff and students issues.

Since 2007, I act as a coordinator for the European Erasmus Exchange programme and the Senior Design Projects at the department of Computer Engineering. I am also a member of the Faculty Academic Board.

## Research Activities

### Editorial activities

- EA8:** Member of the editorial board of the Artificial Intelligence Journal.
- EA7:** Member of the editorial board of the Mediterranean Artificial Intelligence Journal.
- EA6:** Editor of the volume ISSN 0302-9743 entitled "Recent Advances in Constraints" for the Springer Lecture Notes in Artificial Intelligence Series (LNAI 3789) in 2006.
- EA5:** Editor of the Proceedings of The Fifth International Workshop on Modelling and Solving Problems with Constraints, at the 17th European Conference on Artificial Intelligence Riva del Garda, Italy, 2006.
- EA4:** Editor of the Proceedings of The Fourth International Workshop on Modelling and Reformulating Constraint Satisfaction Problems, Barcelona, Spain, 2005;
- EA3:** Editor of the Proceedings of The Fifth International Workshop on Modelling and Solving Problems with Constraints, Edinburgh, Scotland, 2005;
- EA2:** Editor of the Proceedings of the Joint Annual Workshop of ERCIM/CoLogNet on Constraint Solving and Constraint Logic Programming, Uppsala, Sweden, 2005;
- EA1:** Editor of the Proceedings of the Workshop on Modelling and Solving Problems with Constraints, Lyon, France, 2004.

### Supervision

- **R. Rossi:** PhD Thesis in Computer Science, University College Cork, Ireland, 2008. Title: *Constraint Programming for Optimization Under Uncertainty in Stochastic Inventory Control*;
- **E. Herbrard:** PhD Thesis in Computer Science, University of New South Wales, 2006. Title: *Robust Solutions for Constraint Satisfaction and Optimisation under Uncertainty*;
- **S. Wrang:** Master's Thesis in Computing Science 223, Uppsala University, Sweden, 2002;

### Professional and Organizational Activities

- POA27** IJCAI 2009: Member of the programme committee;
- POA26** CP 2002: Member of the programme committee;
- POA25** SARA 2009: Member of the programme committee;

- POA24** AAI 2008: Member of the programme committee;
- POA23** CP-DP 2008: Member of the programme committee;
- POA22** IBERAMIA 2008: Member of the programme committee;
- POA21** PDCS 2007: Member of the programme committee;
- POA20, POA19, POA18** CP 2007: Chair of the Doctoral Programme, member of the programme committee, Co-chair of SymCon07;
- POA17** SARA 2007: Member of the programme committee;
- POA16** AAI 2006: Member of the Programme Committee;
- POA15** ECAI 2006: Member of the Programme Committee;
- POA14** ECAI 2006: Chair of the Fourth International Workshop on Modelling and Reformulating Constraint Satisfaction Problems;
- POA13, POA12** IJCAI 2005/2007: acted as a reviewer;
- POA11, POA10** 12th International Conference on Logic for Programming Artificial Intelligence and Reasoning 2005/2006: Member of the Programme Committee;
- POA9, POA8** The Fourth Mexican International Conference on Artificial Intelligence, 2005/2006: Member of the Programme Committee;
- POA7** CP 2005 Doctoral Programme: Member of the Programme Committee;
- POA6** International Joint Conference on Automated Reasoning, 2005: Member of the Organizing Committee.
- POA5** CP 2006: Chair of the Doctoral Programme ;
- POA4** CP 2005: Chair of the Fourth International Workshop on Modelling and Reformulating Constraint Satisfaction Problems;
- POA3** IJCAI 2005: Chair of the Fifth Workshop on Modelling and Solving Problems with Constraints;
- POA2** Chair of the Joint Annual Workshop of ERCIM/CoLogNet on Constraint Solving and Constraint Logic Programming, 2005;
- POA1** ECAI 2004: Chair of The Fourth Workshop on Modelling and Solving Problems with Constraints;
- PhD Dissertation Jury:
- **June 03, 2005**: Acted as an opponent for the PhD thesis of Ola Angelmark, Linkoping Univreisty, Sweden;

## International Collaborations

My research contributions has been the result of extensive international collaboration with various researchers across the globe: Dr. F. Alya Sheikh (Finland); Dr. C. Bessierre (France); Prof. I. Crnkovic (Sweden); Dr. B. Cramariuc (Finland); Assoc. Prof. Derek Bridge (Ireland); D. Burke (Ireland); Assoc. Prof. K. Brown (Ireland); Dr. B. Dragos-Andrian (Finland); A. Guerri (Italy); Prof. Eugene Freuder (Ireland); Dr. A. Frisch (UK); Docent P. Flener (Sweden); Dr. B. Dragos-Andrian (Finland); Prof. M. Gabbouj (Finland); C. Gebruers (Ireland); E. Hebrard (Australia); Dr. H. Jaakkola (Finland); C. Jefferson (UK); T. Jonsson (Sweden); P. Kerminen (Finland); Docent Z. Kiziltan (Italy); T. Mkinen (Finland); Asst. Prof. I. Miguel (UK); Assoc. Prof. M. Milano (Italy); Assoc. Prof. B. OSullivan (Ireland); Assit. Prof. J. Pearson (Sweden); Assit. Prof. S. Prestwich (Ireland); M. Quinghong (Finland); Dr. C. Reynaud (Finland); R. Rossi (Ireland); Dr. E. Selensky (UK); Prof. B. Smith (UK); Assoc. Prof. A. Tarim (Turkey); Prof. T. Walsh (Australia); and Dr. H. Zidoum (Oman).

## Refereeing

Hnich reviews papers for numerous AI journals and international conferences including the Artificial Intelligence journal, the journal of Artificial Intelligence Research, the journal of Computing, the journal of Artificial Intelligence Review, The Annals of Mathematics and Artificial Intelligence, CP-AI-OR, IJCAI, AAAI, SARA, CP, LPAR, and ECAI.

## Full List of Publications

### Books, Theses, and Book Chapters

- B4:** Brahim Hnich. *Complexity, Decomposibility, and Propagation of Global Constraints*. 141 pp. Universite Montpellier II, France. HDR Thesis.
- B3:** Brahim Hnich, Mats Carlsson, François Fages, Francesca Rossi. *Recent Advances in Constraints*. ISSN 0302-9743. LNAI 3789, Springer-Verlag, to appear in 2006.
- B2:** Brahim Hnich. *Function Variables for Constraint Programming*. 156 pp. Uppsala University, Sweden. PhD Thesis. ISBN 91-506-1650-1 .
- B1:** *Book Chapter:* I. Crnkovic, B. Hnich, T. Jonsson, Z. Kiziltan. On the Definition of Concepts in Component Based Software Development. In Ivica Crnkovic and Magnus Larsson (editors), *Building Reliable Component-Based Software Systems*, Artech House publisher 2002 ISBN: ISBN 1-58053-327-2.

## Journal Articles

- J15:** R. Rossi, S. A. Tarim, B. Hnich, S. Prestwich, S. Karacaer. Scheduling Internal Audit Activities: A Stochastic Combinatorial Optimization Problem, *Journal of Combinatorial Optimization*, to appear, 2009 (covered by Science Citation Index (Expanded)).
- J14:** R. Rossi, S. A. Tarim, B. Hnich, S. Prestwich, C. Guran. A Note on Liu-Iwamura's Dependent-Chance Programming, *European Journal of Operational Research*, to appear, 2009 (covered by Science Citation Index (Expanded)).
- J13:** S. A. Tarim, B. Hnich, S. Prestwich and R. Rossi. Finding Reliable Solutions: Event-Driven Probabilistic Constraint Programming, *Annals of Operations Research*, Springer-Verlag, Vol. x(x):xxx-xxx, 2009 (covered by Science Citation Index (Expanded)).
- J12:** S. A. Tarim, B. Hnich, R. Rossi and S. Prestwich. Cost-based Filtering Techniques for Stochastic Inventory Control under Service Level Constraints, *Constraints*, Springer-Verlag, Vol. x(x):xxx-xxx, 2008 (covered by Science Citation Index (Expanded)).
- J11:** R. Rossi, S. A. Tarim, B. Hnich and S. Prestwich. A Global Chance-Constraint for Stochastic Inventory Systems under Service Level Constraints, *Constraints*, Springer-Verlag, Vol. 13(4):490-517, 2008 (covered by Science Citation Index (Expanded)).
- J10:** D. Burke, K. Brown, S. A. Tarim and B. Hnich. Learning Market Prices in Real-Time Supply Chain Management, *Computers and Operations Research*, 35, pp.3465-3478, 2008 (covered by Science Citation Index (Expanded)).
- J9:** C. Bessiere, E. Hebrard, B. Hnich, Z. Kiziltan and T. Walsh. The Complexity of Reasoning with Global Constraints. To appear in *Constraints* (covered by Science Citation Index (Expanded)).
- J8:** C. Bessiere, E. Hebrard, B. Hnich, Z. Kiziltan and T. Walsh. Filtering Algorithms for the NValue Constraint. To appear in *Constraints* (covered by Science Citation Index (Expanded)).
- J7:** Hnich B, Prestwich SD, Selensky E, B. Smith. Constraint Models for the Covering Test Problem. *Constraints* 11 (2-3): 199-219 JUL 2006 (covered by Science Citation Index (Expanded)).
- J6:** A.M. Frisch, B. Hnich, Z. Kiziltan, I. Miguel, and T. Walsh. Propagation Algorithms for Lexicographic Ordering Constraints. *Artificial Intelligence Journal* 170 (10): 803-834 Jul 2006 (covered by Science Citation Index (Expanded)).

- J5:** S.Prestwich, S.A. Tarim, and B. Hnich. Template Design Under Demand Uncertainty by Integer Linear Local Search. *International Journal of Production Research*, Vol. 44, Issue 22, 2006 (covered by Science Citation Index (Expanded)).
- J4:** B. Hnich, B.M. Smith, and T. Walsh. Dual Modelling of Permutation and Injection Problems. *Journal of Artificial Intelligence Research* 21: 357-391, 2004 (covered by Science Citation Index (Expanded)).
- J3:** B. Hnich, Z. Kiziltan, I. Miguel, and T. Walsh. Hybrid Modelling for Robust Solving. *Annals of Operations Research* 130 (1-4): 19-39, 2004 (covered by Science Citation Index (Expanded)).
- J2:** B. Hnich. Function Variables for Constraint Programming. *AI Communications* 16 (2): 131-132 2003, (covered by Science Citation Index (Expanded)).
- J1:** I. Crnkovic, B. Hnich, T. Jonsson, Z. Kiziltan. Specification, Implementation, and Deployment of Components. *Communications of the ACM* 45 (10): 35-40 OCT 2002, (covered by Science Citation Index (Expanded)).

#### **Publications in Peer-reviewed International Conferences**

The following are the abbreviations of the Artificial Intelligence related international conferences:

- IJCAI: International Joint Conference on Artificial Intelligence;
  - AAAI: American Association of Artificial Intelligence;
  - ECAI: European Conference on Artificial Intelligence;
  - KI: The Austrain/German conference on Artificial Intelligence;
  - CP: The Principles and Practice of Constraint Programming international conference
- C37:** C. Bessiere, E. Hebrard, B. Hnich, Z. Kiziltan, C.G. Quimper, T. Walsh. The Parameterized Complexity of Global Constraints, *Proceedings AAAI'08*, Chicago IL, pages 235-240, 2008.
- C36:** C. Bessiere, E. Hebrard, B. Hnich, Z. Kiziltan, T. Walsh. SLIDE: A Useful Special Case of the CARDPATH Constraint, *Proceedings ECAI'08*, Patras, Greece, pages 475-479, 2008.
- C35:** R. Rossi, S. A. Tarim, B. Hnich and S. Prestwich. Cost-based Domain Filtering for Stochastic Constraint Programming, In *proceedings of CP-2008*, pp. 14-18, 2008, Sydney, Australia, *Lecture Notes in Computer Science*, Springer-Verlag, LNCS 5202, pp.235-250, 2008

- C34:** S. Prestwich, S. A. Tarim, R. Rossi and B. Hnich. A Steady-State Genetic Algorithm With Resampling for Noisy Inventory Control, In proceedings of The 10th International Conference on Parallel Problem Solving from Nature (PPSN-2008), September 13-17, 2008, Technische Universitt Dortmund, Germany, Lecture Notes in Computer Science, Springer-Verlag, LNCS 5199, pp.559-568, 2008.
- C33** S. D. Prestwich , S. A. Tarim , R. Rossi, and B. Hnich. A Cultural Algorithm for POMDPs from Stochastic Inventory Control, In Proceedings of Hybrid Metaheuristics of Lecture Notes in Computer Science, Springer-Verlag, LNCS 5296, pp. 16–28, 2008.
- C32:** S.A. Tarim, B. Hnich, and s. Prestwich. Event-Driven Constraint Programming. in Third International Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization, Lecture Notes in Computer Science, Vol. 3990, 2006 (covered by Science Citation Index (Expanded)).
- C31:** C. Bessiere, E. Hebrard, B. Hnich, Z. Kiziltan and T. Walsh. Among, Common and Disjoint Constraints. Recent Advances in Constraints: Joint ERCIM/CoLogNET International Workshop on Constraint Solving and Constraint Logic Programming, 29-43, LNCS 3978, 2006 (covered by Science Citation Index (Expanded)).
- C30:** C. Bessiere, E. Hebrard, B. Hnich, Z. Kiziltan and T. Walsh. The Range Constraint: Algorithms and Implementation. Proceedings CPAIOR'06, Cork, Ireland, pages 59–73, 2006 (covered by Science Citation Index (Expanded)).
- C29:** C. Bessiere, E. Hebrard, B. Hnich, Z. Kiziltan and T. Walsh. The Roots Constraint. Proceedings CP'06, Nantes, France, pages 75–90, 2006 (covered by Science Citation Index (Expanded)).
- C28:** B. Hnich, S. Prestwich, E. Selensky. Constraint-Based Approaches to the Covering Test Problem. Proceedings CSCLP: Revised Selected and Invited Papers, LNCS Vol. 3419: 172-186, Springer Verlag, 2005 (covered by Science Citation Index (Expanded)).
- C27:** C. Bessiere, E. Hebrard, B. Hnich, Z. Kiziltan and T. Walsh. Filtering Algorithms for the NValue Constraint. Proceedings CPAIOR'05, Prague, Czech Republic, LNCS Vol. 3524, pages 79-93, Springer Verlag, 2005 (covered by Science Citation Index (Expanded)).
- C26:** A. M. Frisch, B. Hnich, I. Miguel, B. M. Smith, T. Walsh. Transforming and Refining Abstract Constraint Specifications. In: Proc. Symposium on Abstraction, Reformulation and Approximation (SARA 2005), 2005 (covered by Science Citation Index (Expanded)).

- C25:** C. Gebruers, B. Hnich, D. Bridge and E. Freuder. Using Case Based Reasoning to Select Solution Strategies in Constraint Programming To appear in Proceedings of the 6th International Conference on Case Based Reasoning, ICCBR 2005 , 2005 (covered by Science Citation Index (Expanded)).
- C24:** Christian Bessiere, Emmanuel Hebrard, Brahim Hnich, and Toby Walsh. Disjoint, Partition and Intersection Constraints for Set and Multiset Variables. CP'2004, LNCS Vol. 3258: 138-152, Springer Verlag, 2004 (covered by Science Citation Index (Expanded)).
- C23:** Christian Bessiere, Emmanuel Hebrard, Brahim Hnich, and Toby Walsh. The Tractability of Global Constraints. CP'2004, LNCS Vol. 3258: 716-720, Springer Verlag, 2004 (covered by Science Citation Index (Expanded)).
- C22:** E. Hebrard, B. Hnich, and T. Walsh. Super Solutions in Constraint Programming. Proceedings of CP-AI-OR'04, 157-172, 2004, (covered by Science Citation Index (Expanded)).
- C21:** C. Gebruers, A. Guerri, B. Hnich, and M. Milano. Making Choices using Structure at the Instance Level within a Case Based Reasoning Framework. Proceedings of CP-AI-OR'04, 380-386, 2004, (covered by Science Citation Index (Expanded)).
- C20:** H. Zidoum, P. Flener, and B. Hnich. Schema-guided synthesis of CLP programs. Revised Selected Papers of LOPSTR'98, pp. 309-312. Lecture Notes in Computer Science, volume 1559. Springer-Verlag, 1999, (covered by Science Citation Index (Expanded)).
- C19:** E. Hebrard, B. Hnich, B. O'Sullivan, and T. Walsh. Finding Diverse and Similar Solutions in Constraint Programming. To appear in Proceedings of the 20th National Conference on Artificial Intelligence AAAI 2005, 2005.
- C18:** C. Bessiere, E. Hebrard, B. Hnich, Z. Kiziltan and T. Walsh. The Roots and Range Constraints: Specifying Counting and Occurrence Problems. To appear in Proceedings of the 19th International Joint Conference on Artificial Intelligence IJCAI 2005, 2005.
- C17:** E. Hebrard, B. Hnich, and T. Walsh. Robust Solutions for Constraint Satisfaction and Optimization. To be submitted to the 16th European Conference on Artificial Intelligence (ECAI 2004).
- C16:** C. Bessiere, E. Hebrard, B. Hnich, and T. Walsh. Complexity of Global Constraints. To appear in the Nineteenth National Conference on Artificial Intelligence (AAAI 2004).
- C15:** A.M. Frisch, B. Hnich, Z. Kiziltan, I. Miguel, and T. Walsh. Multiset Ordering constraints. To appear in the Eighteenth International Joint Conference on Artificial Intelligence (IJCAI'03).

- C14:** B. Hnich and T. Walsh. Models of Injection Problems. In: P. Van Hentenryck (ed), Proc. of CP'02, pp. 781. Lecture Notes in Computer Science, volume 2470. Springer-Verlag, 2002.
- C13:** P. Flener, A.M. Frisch, B. Hnich, Z. Kiziltan, I. Miguel, J. Pearson, and T. Walsh. Breaking row and column symmetries in matrix models. In: P. Van Hentenryck (ed), Proc. of CP'02, pp. 462-476. Lecture Notes in Computer Science, volume 2470. Springer-Verlag, 2002.
- C12:** A.M. Frisch, B. Hnich, Z. Kiziltan, I. Miguel, and T. Walsh. Global constraints for lexicographic orderings. In: P. Van Hentenryck (ed), Proc. of CP'02, pp. 93-108. Lecture Notes in Computer Science, volume 2470. Springer-Verlag, 2002.
- C11:** B. Hnich. High-Level Modelling and Reformulation of Constraint Satisfaction Problems. In: T. Walsh (ed), Proc. of CP'01, pp. 766. Lecture Notes in Computer Science. Springer-Verlag, 2001.
- C10:** Z. Kiziltan, P. Flener, and B. Hnich. Towards inferring labelling heuristics for CSP application domains. In: F. Baader, G. Brewka, and T. Eiter (eds), Proc. of KI'01, pp. 275-289. Lecture Notes in Artificial Intelligence, volume 2174. Springer-Verlag, 2001.
- C9:** B. Hnich, Z. Kiziltan, and T. Walsh. Combining Symmetry Breaking with Other Constraints: lexicographic ordering with sums. In: Proc. of the Eighth International Symposium on Artificial Intelligence And Mathematics, 2004.
- C8:** Flener, A.M. Frisch, B. Hnich, Z. Kiziltan, I. Miguel, J. Pearson, and T. Walsh. Breaking row and column symmetry in matrix models. In: T. Vidal and P. Liberatore (eds), Proc. of STAIRS'02. IOS Press, 2002.
- C7:** B. Hnich and P. Flener. High-level reformulation of constraint programs. In: Ph. Codognet (ed), Proc. of JFPLC'01, pp. 75-89. Editions Hermes, 2001.
- C6:** P. Flener, B. Hnich, and Z. Kiziltan. Compiling high-level type constructors in constraint programming. In: I.V. Ramakrishnan (ed), Proc. of PADL'01, pp. 229-244. Lecture Notes in Computer Science, volume 1990. Springer-Verlag, 2001.
- C5:** P. Flener, B. Hnich, and Z. Kiziltan. A meta-heuristic for subset problems. In: I.V. Ramakrishnan (ed), Proc. of PADL'01, pp. 274-287. Lecture Notes in Computer Science, volume 1990. Springer-Verlag, 2001.
- C4:** F. Alaya Cheikh, B. Cramariuc, C. Reynaud, M. Quinghong, B. Dragos-Adrian, B. Hnich, M. Gabbouj, P. Kerminen, T. Mkinen and H. Jaakkola. MUVIS: A System for Content-Based Indexing and Retrieval in Large Image Databases. Proceedings of the SPIE/EI'99 Conference on Storage

and Retrieval for Image and Video Databases VII, Vol. 3656, San Jose, California, 26-29 January 1999.

- C3:** P. Flener, H. Zidoum, and B. Hnich. Schema-guided synthesis of constraint logic programs. In: D.F. Redmiles and B. Nuseibeh (eds), Proc. of ASE'98, pp. 168-176. IEEE Computer Society Press, 1998.
- C2:** E. Hebrard, B. Hnich, and T. Walsh. Improved algorithm for finding (a,b)-super solutions. Proceedings of CPPS 2005, 2005.
- C1:** B. Hnich, Z. Kiziltan, and T. Walsh. Modelling a balanced academic curriculum problem. In: N. Jussien and F. Laburthe (eds), Proc. of CP-AI-OR'02.

### Workshop Papers

- W17:** R. Rossi, S. Prestwich, S. Armagan Tarim and B. Hnich. Generalizing Backdoors, presented at the 5th International Workshop on Local Search Techniques in Constraint Satisfaction (LSCS 2008) Sep. 14, 2008, Sydney, Australia, in conjunction with CP 2008
- W16:** S. A. Tarim, B. Hnich, R. Rossi and S. Prestwich. A Decision Support System for Computing Optimal (R,S) Policy Parameters, presented at the 19th Irish Conference on Artificial Intelligence and Cognitive Science (AICS 2008) Aug. 27, 2008, Cork, Ireland
- W15:** S. Prestwich, B. Hnich, R. Rossi and S. A. Tarim. Symmetry Breaking by Nonstationary Optimisation, presented at the 19th Irish Conference on Artificial Intelligence and Cognitive Science (AICS 2008) Aug. 27, 2008, Cork, Ireland
- W14:** S. Prestwich, B. Hnich, R. Rossi and S. Armagan Tarim. Symmetry Breaking by Metaheuristic Search, presented at the 8th International Workshop on Symmetry and Constraint Satisfaction Problems (SYMCON 2008) Sep. 14, 2008, Sydney, Australia, in conjunction with CP 2008
- W13:** R. Rossi, S. A. Tarim, B. Hnich and S. Prestwich. Dynamic Programming for computing  $(R_n, S_n)$  policy parameters. Abstract - Slides, presented at the 15th International Symposium on Inventories (ISIR-2008), August 22-26, 2008, Budapest, Hungary
- W12:** S. A. Tarim, S. Karacaer, R. Rossi, B. Hnich and S. Prestwich. Scheduling Internal Audit Activities: A Stochastic Combinatorial Optimization Problem, presented at the International Symposium on Combinatorial Optimization (CO-2008) March 16-19, 2008, Coventry, UK
- W11:** Brahim Hnich, Steven Prestwich, Evgeny Selensky. Modeling the Covering Test Problem. In: Proc. Joint Annual Workshop of ERCIM/CoLogNet on Constraint Solving and Constraint Logic Programming (CSCLP'04), 2004.

- W10:** Alan M. Frisch, Brahim Hnich, Ian Miguel, Barbara M. Smith, Toby Walsh. Transforming and Refining Abstract Constraint Specifications. In: Proc. Joint Annual Workshop of ERCIM/CoLogNet on Constraint Solving and Constraint Logic Programming (CSCLP'04), 2004.
- W9:** B. Hnich and T. Walsh. Why Channel? Multiple viewpoints for branching heuristics. In: Proc. of the CP'03 Second International Workshop on Modelling and Reformulating Constraint Satisfaction Problems: Towards Systematisation and Automation, 2003.
- W8:** B. Hnich, Z. Kiziltan, and T. Walsh. Combining Symmetry Breaking with Other Constraints: lexicographic ordering with sums In: Proc. of the CP'03 Third International Workshop on Symmetry in Constraint Satisfaction Problems, 2003.
- W7:** E. Hebrard, B. Hnich, and T. Walsh. Super CSPs. In: Proc. of the CP'03 Workshop on Online Constraint Solving: Handling Change and Uncertainty, 2003.
- W6:** P. Flener, A.M. Frisch, B. Hnich, Z.Kiziltan, I. Miguel, and T. Walsh. Matrix modelling: Exploiting common patterns in constraint programming. In: A.M. Frisch (ed), Proc. of the International Workshop on Reformulating CSPs, held at CP'02, 2002.
- W5:** A.M. Frisch, B. Hnich, I. Miguel, B.M. Smith, and T. Walsh. Towards CSP model reformulation at multiple levels of abstraction. In: A.M. Frisch (ed), Proc. of the International Workshop on Reformulating CSPs, held at CP'02, 2002.
- W4:** B. Hnich and T. Walsh. Models of injection problems. In: T. Walsh (ed), Proc. of the ECAI'02 Workshop on Modelling and Solving Problems with Constraints. 2002.
- W3:** Z. Kiziltan and B. Hnich. Symmetry breaking in a rack configuration problem. In: Ch. Bessiere (ed), Proc. of the IJCAI'01 Workshop on Modelling and Solving Problems with Constraints, pp. 83-88, 2001.
- W2:** B. Hnich, Z. Kiziltan, and P. Flener. A meta-heuristic for subset decision problems. In: K.R. Apt, E. Monfroy, and F. Rossi (eds), Proc. of the 2000 ERCIM / CompuLog Workshop on Constraint Programming, 2000.
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### Miscellaneous

**Languages:** Arabic (native), fluent English, advanced French, and basic Turkish, German, and Swedish;

**Sept. 1996:** Co-founder and player of Bilkent University's handball team and co-founder and vice president of Bilkent University International Students' Club.

## References

PROF. CHRISTIAN BESSIERE  
LIRMM-CNRS  
161, rue Ada  
34392 Montpellier Cedex 5, France  
[bessiere@lirmm.fr](mailto:bessiere@lirmm.fr)  
+33 4 67 41 85 85

PROF. TOBY WALSH  
School of Computer Science and Engineering  
The University of New South Wales  
Sydney 2052, Australia  
[tw@cse.unsw.edu.au](mailto:tw@cse.unsw.edu.au)  
+614 243 25167

PROF. ANDREAS HAMFELT  
Department of Information Science  
Uppsala University  
Uppsala, Sweden  
[Andreas.Hamfelt@dis.uu.se](mailto:Andreas.Hamfelt@dis.uu.se)  
+46 18 471 10 37

PROF. EDWARD TSANG  
Department of Computer Science  
University of Essex  
Wivenhoe Park, Colchester, CO4 3SQ, UK  
[edward@essex.ac.uk](mailto:edward@essex.ac.uk)  
+44 1206 872774