Conférence Invitée / Invited Talk Usability and Usefulness

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Résumé

Je présenterai un des thèmes majeurs de notre travail au Cork Constraint Computation Centre (4C), qui rend la programmation par contraintes plus facile à utiliser, autant pour les développeurs que pour les utilisateurs finaux. Je ferai également des démonstrations d'applications développées à 4C.

Abstract

I will discuss one of the major themes of our work at the Cork Constraint Computation Centre (4C), making constraint programming more usable, both for developers and end users. I will also present some demonstrations of applications developed at 4C.

Curriculum Vitae

Professor Freuder received his B.A., magna cum laude, in mathematics from Harvard in 1967 and a Ph.D. in computer science from M.I.T. in 1975. He taught for many years at the University of New Hampshire in the U.S., where he received the University's 1999 Award for Excellence in Research. In 2001 he moved to Ireland to take up a Science Foundation Ireland Fellow award and a post as Research Professor at University College Cork, where he became the founding Director of the Cork Constraint Computation Centre (4C).

Professor Freuder has been elected a Fellow of the American Association for the Advancement of Science, and of the American and European Artificial Intelligence societies. He received the first Research Excellence Award of the Association for Constraint Programming. He served as the founding Editor-in-Chief of the Constraints journal, and as Executive Chair of the Organizing Committee of the series of International Conferences on Principles and Practice of Constraint Programming. In 2005 his career was honored at a special session of this conference.

Professor Freuder's extensive publication list includes multiple Artificial Intelligence and Journal of the ACM papers, and over 30 papers at the four leading international conferences in artificial intelligence and constraint programming (IJCAI, AAAI, ECAI, CP). A 1985 paper was recognized in a special anniversary volume of the journal Artificial Intelligence as one of the papers in the first fifty volumes of the journal most cited in the five years after their publication. A 1992 paper is listed by CiteSeer as one of the most cited articles in Computer Science published in that year. A 2004 paper was selected as one of the best papers at the European Conference on Artificial Intelligence for that year.

His papers have appeared at a wide range of Artificial Intelligence meetings, including Planning and Scheduling, Real-Time Autonomous Systems, Distributed Information Networking, Configuration, Diagnosis, Recommender Systems, Multimodal Reasoning, Manufacturing, and Active Learning, and at a wide variety of Constraint Programming meetings, including those focusing on Constraints and the Internet, Agents, User-interaction, and Practical Applications.

Professor Freuder currently holds a Science Foundation Ireland (SFI) Principal Investigator (Fellow) Award of 7.5 million euro, and is one of five Strand Leaders of the 20 million euro SFI Centre for Telecommunications Value-chain-driven Research (CTVR). He and his staff have received research grants from Enterprise Ireland, the Irish Research Council for Science, Engineering and Technology, and the European Union, and support for work with the Southern Health Board. In the U.S. he was supported by the National Science Foundation almost continuously for over 20 years, and also received support from NASA.

His work has received extensive support from industry including Aprisma/Cabletron, Bausch & Lomb, British Telecommunications, Calico, Candle, Concentra, DEC, ILOG, Lucent, Microsoft, Nokia, Oracle, Trilogy, and Xe-

rox. He has served as Senior Technical Advisor of the U.S. company Ecora, and as a member of the Technical Advisory Board of the French company ILOG. The 4C Industry Associates Program has over 50 members.

Professor Freuder has been involved in the organization of several dozen conferences, symposia or workshops either as program chair or on the organizing or program committees, including service on the Senior Program Committee of the American Association for Artificial Intelligence Conference and the Advisory Committee of the International Joint Conference on Artificial Intelligence. He is the editor of several books and special journal issues, including volumes in the LNCS and DIMACS series and special issues of Artificial Intelligence and IEEE Intelligent Systems.

His invited talks include the American and Australian Artificial Intelligence conferences, and the Constraint Programming conference. He has presented tutorials at the premiere international and American Artificial Intelligence conferences, and lectured at a NATO Advanced Study Institute. He has been an organizer or participant in panels at a variety of conferences and workshops, including the International Joint Conference on Artificial Intelligence and the Constraint Programming conference.