

Computing Horizons: The Thinker's Apprentice

Durham, Tony

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Computing Horizons

**Irek Ulidowski, Ivan Lanese, Ulrik Pagh
Schultz, Carla Ferreira**

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Computing Horizons Tony Durham, 1988 **Reversible Computation: Extending Horizons of Computing** Irek Ulidowski, Ivan Lanese, Ulrik Pagh Schultz, Carla Ferreira, 2020-05-13 This open access State of the Art Survey presents the main recent scientific outcomes in the area of reversible computation focusing on those that have emerged during COST Action IC1405 Reversible Computation Extending Horizons of Computing a European research network that operated from May 2015 to April 2019 Reversible computation is a new paradigm that extends the traditional forwards only mode of computation with the ability to execute in reverse so that computation can run backwards as easily and naturally as forwards It aims to deliver novel computing devices and software and to enhance existing systems by equipping them with reversibility There are many potential applications of reversible computation including languages and software tools for reliable and recovery oriented distributed systems and revolutionary reversible logic gates and circuits but they can only be realized and have lasting effect if conceptual and firm theoretical foundations are established first **Horizons! Computing Across the Curriculum, Microsoft Works 2.0 (DOS), Student Edition** McGraw-Hill, 1995-01-01 Computerworld , 1995-06-05 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network *Computing Ethics* Don Gotterbarn, Keith W. Miller, John Impagliazzo, Ahmad Zaki Bin Abu Bakar, 2016-03-01 This textbook emphasizes a diversity of values from different cultures religions and geographical locations The book is designed to assist students computing professionals and faculty members to act in a more professional and ethical manner Compelling case studies ethical reasoning and cultural perspectives will be included throughout the book and the authors will apply lessons learned over many years of intense involvement in computing ethics The text is appropriate either as a main text in a stand alone ethics course or as a supplementary text for other related courses **Extending the Horizons: Advances in Computing, Optimization, and Decision Technologies** Edward K. Baker, Anito Joseph, Anuj Mehrotra, Michael A. Trick, 2007-04-30 This book represents the results of cross fertilization between OR MS and CS AI It is this interface of OR CS that makes possible advances that could not have been achieved in isolation Taken collectively these articles are indicative of the state of the art in the interface between OR MS and CS AI and of the high caliber of research being conducted by members of the INFORMS Computing Society *Computing Handbook* Allen Tucker, Teofilo Gonzalez, Heikki Topi, Jorge Diaz-Herrera, 2022-05-29 This two volume set of the Computing Handbook Third Edition previously the Computer Science Handbook provides up to date information on a wide range of topics in computer science information systems IS information technology IT and software engineering The third edition of this popular handbook addresses not only the dramatic growth of computing as a discipline but also the relatively new delineation of computing as a family of separate disciplines as described by the Association for

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network that operated from May 2015 to April 2019 Reversible computation is a new paradigm that extends the traditional forwards only mode of computation with the ability to execute in reverse so that computation can run backwards as easily and naturally as forwards It aims to deliver novel computing devices and software and to enhance existing systems by equipping them with reversibility There are many potential applications of reversible computation including languages and software tools for reliable and recovery oriented distributed systems and revolutionary reversible logic gates and circuits but they can only be realized and have lasting effect if conceptual and firm theoretical foundations are established first

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