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Semantic Techniques in Quantum Computation

to develop the theory of quantum computation, to find new quantum algorithms, and to exploit the physical techniques needed in building functional quantum computers, including in particular fault tolerance techniques. Currently, quantum algorithms are expressed mainly at the very low level of quantum circuits.

Semantic Techniques in Quantum Computation

limits of quantum computation. The main issues are questions about how quantum processes are defined, how quantum algorithms compose, how quantum resources are used and how classical and quantum information interact. Traditionally, the main framework to explore quantum computation has been the circuit model Deutsch (1989), based on unitary evolution.

Semantic Techniques for Quantum Computation - cs.mcgill.ca

Semantic techniques in quantum computation. [Simon Gay; I Mackie;] -- "The study of computational processes based on the laws of quantum mechanics has led to the discovery of new algorithms, cryptographic techniques, and communication primitives.

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Quantum Latent Semantic Analysis 53 and its approach is geometrical in nature, while PLSA and LDA have a sound probabilistic foundation. Quantum information retrieval(QIR) [12,10], is a relatively new research area

Quantum Latent Semantic Analysis - Springer

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many problems affecting economic and social life that cannot be addressed by classical computing.

Foundations of Quantum Programming (Extended Abstract

The Semantic Web is an extension of the World Wide Web through standards by the World Wide Web Consortium (W3C). The standards promote common data formats and exchange protocols on the Web, most fundamentally the Resource Description Framework (RDF).

Semantic Web - Wikipedia

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Quantum Approach to Epistemic Semantics - people.unica.it

Discussion of aspects of quantum computing in terms of monads in functional programming are in. Thorsten Altenkirch, Alexander Green, The quantum IO monad, in Semantic Techniques in Quantum Computation, January 2009, appeared in 2010 (pdf, talk slides) Thorsten Altenkirch, Jonathan Grattage, A functional quantum programming language

quantum computation in nLab

Quantum cognition is based on the quantum-like paradigm or ... and Aerts and Czachor identified quantum structure in semantic space theories, ... Since then, the employment of techniques and procedures induced from the mathematical formalisms of quantum theory “ Hilbert space, quantum logic and probability, non-commutative algebras, etc ...

Quantum cognition - Wikipedia

A Review on Deep Learning Techniques Applied to Semantic Segmentation A. Garcia-Garcia, S. Orts-Escolano, S.O. Oprea, V. Villena-Martinez, and J. Garcia-Rodriguez Abstract “Image semantic segmentation is more and more being of interest for computer vision and machine learning researchers.

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Simon Gay is the author of Semantic Techniques Quantum Comput (2.75 avg rating, 4 ratings, 0 reviews, published 2009), Semantic Techniques in Quantum Com...

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Computational Security of Quantum Encryption

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Open System Categorical Quantum Semantics in Natural

Quantum Recursion and Second Quantisation Mingsheng Ying State Key Laboratory of Computer Science. Outline 1. Introduction 2. Recursive Programming 3. Classical Recursion in Quantum Programming ... Semantic Techniques in Quantum Computation, Cambridge Univ. Press 2010. Solutions to recursive equations of quantum programs

Quantum Recursion and Second Quantisation - ISCAS

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Lexical Semantic Techniques for Corpus Analysis

Techniques for Formal Modelling and Analysis of Quantum Systems SimonJ.Gay¹ andRajagopalNagarajan²,
1 SchoolofComputingScience,UniversityofGlasgow, UK Simon.Gay@glasgow.ac.uk 2
DepartmentofComputerScience,SchoolofScienceandTechnology, MiddlesexUniversity,London,UK
R.Nagarajan@mdx.ac.uk Abstract. Quantum communication and cryptographic protocols are

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