
Molecular Logic Based Computation De Silva A Prasanna

review article molecular logic and computing - review article molecular logic and computing molecular substrates can be viewed as computational devices that process physical or chemical 'inputs' to generate 'outputs' based on a set of logical operators. by recognizing this conceptual crossover between chemistry and computation, it can be argued that the success of life itself **simulations of molecular logic gates - arxiv** - iii. operation principle of molecular logic gates classical logic devices. generally, logic gates are switches whose output state (0 or 1) depends on the input conditions (also 0 or 1). in this section we show some proposals of complete logic devices (and, nor and xor gates) based on individual molecules. in the **nano letters medium scale integration of molecular logic ...** - crucial for the construction of next-generation molecular devices.11,14 the largest solution-phase molecular circuits previously considered include networks combining up to 20 logic modules.11,20 on a similar scale, utilizing a full set of deoxyribozyme-based logic gates,6,19,24 we have constructed solution-phase computing circuits such as a ... **molecular logic gates based on localized dna strand ...** - molecular logic gates based on localized dna strand displacement wang et al. same time, if the logic value of x_i is '1', the x_1 is '1'. so the output signal y_0 is '1' only if the output y_1 is '1', otherwise the output y_0 is '0'. based on the localized and **molecular logic computing model based on self-assembly of ...** - molecular logic computing model based on self-assembly of dna nanoparticles zhang cheng1*, yang jing1,2* & xu jin1* 1 institute of software, school of electronics engineering and computer science ... **molecular logic computing model based on dna ... - springer** - molecular logic computing model based on dna self-assembly strand branch migration zhang cheng1†, ma lina2†, dong yafei2, yang jing3* & xu jin1* 1 institute of software, school of electronics engineering and computer science, key laboratory of high confidence software technologies of **digital logic with molecular reactions** - ing digital logic with molecular reactions based on a bistable mechanism for representing bits. the value of a bit is not determined by the concentration of a single molecular type; rather, it is the comparison of the concentrations of two complementary types that determines if the bit is "0" or "1". this mechanism is robust: **electronically configurable molecular-based logic gates** - the molecular switches are closed, current flows by resonant tunneling into the molecular electronic states. the net result of this resonant tunneling is that the high and low current levels of the logic gate truth tables are widely separated. this should lead to good noise immunity in future logic circuits built with this technology. **a survey of advancements in nucleic acid-based logic gates ...** - na-based logic devices for conventional silicon chips and utilize them for cellular or in vivo applications have become the driving force behind a new generation of molecular logic systems. this feature article first focuses on the in vitro design of na-based logic and computational systems, followed by a **dna computers for work and play - university of virginia ...** - molecular versions of logic gates that can operate in water solution. our goal in building these dna-based computing modules is to develop nanoscopic machines that could exist in living organisms, sensing conditions and making decisions based on what they sense, then responding with actions such as releasing medicine or killing ... **a molecular logic gate - pnas** - a molecular logic gate k. l. kompa and r. d. levine† max planck institute of quantum optics, d-85740 garching, germany contributed by r. d. levine, november 13, 2000 we propose a scheme for molecule-based information processing by combining well-studied spectroscopic techniques and recent results from chemical dynamics. specifically it is ... **molecular sensors and molecular logic gates (review)** - molecular sensors and molecular logic gates (review) v. bojinov, n. georgiev university of chemical technology and metallurgy ... molecular logic gates ... digital comparator based on 8-hydroxyquinoline 53 and corresponding truth table. **digital logic using molecular electronics** - digital logic using molecular electronics seth copen goldstein and dan rosewater carnegie mellon university school of computer science f seth, drose g @csu in this paper we introduce a reconfigurable architecture based on chemically assembled electronic nanotechnology (caen). caen is a promising alternative to cmos **playing tic-tac-toe with a sugar-based molecular computer** - developed in 1840.17 in the molecular version, stojanovic and stefanovic15 used a deoxyribozyme-based automaton (maya-i) that followed a perfect strategy with dna logic gates. the improved maya-ii enabled a more complex gaming strategy based on 128 integrated logic gates.18 however, the low integration density of "wet computers" compared with **towards a logic-based method to infer provenance-aware ...** - et al.. towards a logic-based method to infer provenance-aware molecular networks. proc. of the 1st ecml/pkdd international workshop on learning and discovery in symbolic systems biology (ldssb), sep 2012, bristol, united kingdom. pp.103-110. hal-00748041

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