

# Alternative Computing Architectures As a Solution to the Application of Moore's Law Energy Consumption

Energy consumption is a major concern for data centers and cloud providers. The energy consumption of data centers is expected to reach 100 TWh by 2020, which is equivalent to the energy consumption of the entire United States in 2008.

Reducing energy consumption is a key goal for the industry. This can be achieved through a variety of means, including hardware and software optimizations, and the use of alternative computing architectures.

- **Hardware optimizations:** This includes the use of low-power processors, memory, and storage devices. It also includes the use of energy-efficient cooling and power management techniques.
- **Software optimizations:** This includes the use of energy-efficient algorithms and data structures. It also includes the use of virtualization and cloud management tools.
- **Alternative computing architectures:** This includes the use of quantum computing, neuromorphic computing, and other emerging technologies. These architectures offer the potential for significantly reduced energy consumption compared to traditional architectures.



# Iterative Computer Algorithms With Applications In Engineering Solving Combinatorial Optimization Problems

**Lingsheng Yao**



## **Iterative Computer Algorithms With Applications In Engineering Solving Combinatorial Optimization Problems:**

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presented together with an invited survey on meta heuristics have gone through two rounds of reviewing and improvement The papers are organized in topical sections on combinatorial optimization planning with resources and related approaches

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