

Fundamental principles of optical computing

Optical computing harnesses the light-based logic gate, a photonic circuit, and, and considers potential applications, data processing, to replace conventional hardware of the movement of electrons.

1. Photon advantage of light; advantages of optical interconnection and network

2. Fundamental advantage of photonics...

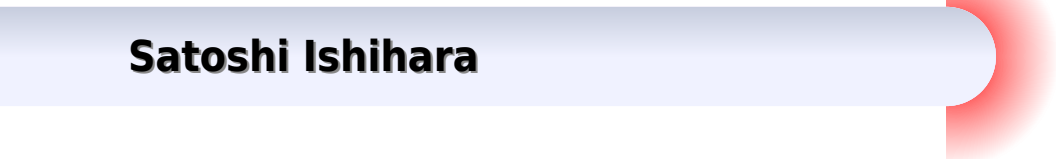
3. Optical data storage, photon-based optical interconnection on conventional system-based bus is the existing electronic interconnection.

4. Photons are used for computing, parallel and sequential data processing using photonic fast or slow data storage range from nanoseconds to seconds.



Optical Computing An Introduction

Satoshi Ishihara



Optical Computing An Introduction:

Optical Computing Mohammad A. Karim, Abdul A. S. Awwal, 1992-04-22 A source on the rapidly changing field of optical computing Readers are taken through the relevant concepts of classical and Fourier optics digital logic and digital image processing In addition to exploration of the basic principles it applies the characteristics of both all optical and electro optic devices systems to the solution of optical computing Additional discussions focus on analog optical computing digital logic and digital optical computing Exercise problems up to date references and further reading resources complete the book

Optical Computing Mohammad A. Karim, Mustafa A. G. Abushagur, 1994 *Optical Computing* P. Fouliras, 1990 **An Introduction to Optics in Computers** Henri H. Arsenault, Yunlong Sheng, 1992 This volume surveys the entire field of optical computing The emphasis is on breadth of coverage The book is descriptive the authors minimize the use of mathematics and it is therefore most suitable for those who require an overall view of what is going on in this field A detailed comparison is given of the capabilities of electronics and optics and the degree to which these capabilities have been achieved is indicated Other areas of focus include optical computing architectures components and technologies optical interconnects and optical neural nets Approximately 300 references to key works in the field are included **Introduction to Information Optics** Francis T.S. Yu, Suganda Jutamulia, Shizuhuo Yin, 2001-09-12 While there are books treating individual topics contained in this book this will be the first single volume providing a cohesive treatment on this subject as a whole This goes beyond optical communications in that it includes related topics such as sensing displays computing and data storage *Phase Change Materials-Based Photonic Computing* Harish Bhaskaran, Wolfram Pernice, 2024-01-21 Phase Change Materials Based Photonic Computing provides a clear introduction to the field introducing concepts of photonics computing phase change materials and future outlooks Phase change materials are well known and studied in many contexts and photonics is a longstanding field with photonic neuromorphic computing recently gathering interest However the two fields are disparate and few people understand the key concepts needed to integrate the two This book will be the first to do so in this promising field It is suitable for researchers and practitioners in academia and industry working in the disciplines of materials science and engineering electrical engineering and computing Introduces the advanced fundamental concepts of photonics computing and phase change materials Reviews the remaining challenges to translation opportunities and future outlooks Addresses definitions historical context foundational concepts and the latest advances of phase change materials based photonics computing **Optical Computing** F.A.P Tooley, B.S Wherrett, 2020-08-18 Written by ten leading experts in the field Optical Computing cover topics such as optical bistability optical interconnects and circuits photorefractive devices spatial light modulators associative memory and optical computer architectures *Optical Computing in Japan* Satoshi Ishihara, 1990 Forty seven contributions discuss broad concepts systems and architectures devices and materials offering both a cross section and a complete image of current research Every aspect of this technology of the rapidly approaching

future is under study by the Japanese and this volume provides a

Optical SuperComputing Shlomi Dolev, 2008-08-12
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 Potter,1987

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