

Fundamental principles of optical computing

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

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

2. Fundamental advantage of photonic computing is bandwidth...

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 Data Processing

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Optical Data Processing:

Optical Data Processing Nils H. Abramson, 1977 **Optical Data Processing** Arnold Roy Shulman, 1970 **Optical data processing** David Paul Casasent, 1985 Our research concerns optical data processing for missile guidance and target recognition It uses pattern recognition techniques with an increasing use of knowledge base inference machine and associative processor techniques Our Year 2 work addresses devices the liquid crystal television Kalman filters intrinsic features iconic filters and symbolic processors These all represent quite novel optical processing concepts Our work also concerns new architectures and concepts such as relational graph processors optical linear discriminant processors model based optical processors hierarchical symbolic optical correlators and optical associative processors **Applications of Holography and Optical Data Processing** E. Marom, A. A. Friesem, E. Wiener-Avnear, 2013-10-22 Applications of Holography and Optical Data Processing contains the proceedings of the International Conference on Applications of Holography and Optical Data Processing held in Jerusalem in August 1976 The conference is attended by eminent scientists in the field of optics characterized by high level scientific presentations and discussions The collection is a representation of research on the cutting edge of applied and theoretical optics The four day meeting covers topics on holographic applications in medicine interferometry display storage and retrieval as well as image processing measuring techniques spectroscopy and recording materials and devices The participants of the conference believe in the promising future of research on Optical Data Processing as long as techniques are complemented by electronic support The book will be of value to electronics engineers technicians computer scientists and computer engineers **Introduction to Optical Data Processing** University of Michigan Engineering Summer Conferences, 1966 *Optical Data Processing* David Casasent, CARNEGIE-MELLON UNIV PITTSBURGH PA DEPT OF ELECTRICAL AND COMPUTER ENGINEERING, 1988 This research concerns optical data processing for missile guidance and target recognition It uses pattern recognition techniques with an increased use of knowledge base inference machine and associative processor techniques This work concerns new algorithms real time and practical realizations of such systems and new initial work on associative processors symbolic rule based processors and directed graph processors with new attention to unique optical realizations of such systems Keywords Optical data processing Pattern recognition Feature extraction Associative processors Symbolic processors Rule based processors OPTICAL DATA PROCESSING. , 1975 Optical Data Processing in Europe David Casasent, OFFICE OF NAVAL RESEARCH LONDON (England), 1981 This report contains short summaries of some current activities accomplishments and problems in France the Federal Republic of Germany and the United Kingdom in the field of optical data processing Both university and industrial research laboratories are included In all instances the emphasis is on optical image and signal processing Author **Optical Data Processing - Applications** Casasent D Ed, 1978 Principles of Optical Data Processing for Engineers Arnold Roy Shulman, 1970 This document is written primarily for engineers as a self

teaching text on optical data processing Fundamentals are reviewed and expanded upon to give a clear understanding and working knowledge of the entire subject including optical spectrum analysis optical correlation photographic film characteristics and holography In addition this document introduces the use of mathematics to describe the various optical operations thus forming a background for understanding more advanced works in the field

Introduction to Optical Data Processing University of Michigan. Engineering Summer Conferences,1965 *Applications of Holography and Optical Data Processing : Proceedings of the International Conference [on Applications of Holography and Optical Data Processing], Jerusalem, August 23-26, 1976 ,1977* *Applications of Holography and Optical Data Processing* International Conference on Applications of Holography and Optical Data Processing. 1976, Yerûšālayim,1977 Optical Data Processing David Paul Casasent,1978 *Optical Data-Processing and Filtering Systems* Louis J. Cutrona,1960 **Introduction to Optical Data Processing; an Intensive Short Course** ,1967 Optical Data Processing in High-NA Imaging Ulrich Brand,London Univ. (GB),2000 **Parallel Optical Processing to Convert Elevation Data to Slope Maps** Avron S. Hecht,1975 The considerations in designing and calibrating a coherent optical data processing system for quantitative slope computation from a transparency with amplitude transmittances as a function of surface terrain elevations are described in this report Methods of designing the spatial filter and criteria for selecting the optical system components to minimize the errors in determining slopes are described Procedures for calibrating the input transparency and the optical system are specified Author **Introduction to Optical Data Processing** University of Michigan. Engineering Summer Conferences, 1967,1967 *Optical Data Processing Study* Denis Hankins,1970 An optical data processing study was performed to determine the value of the use of present day coherent optical processing techniques on selected AFFDL data processing problems Optical digital and analog implementation of Power Spectral Density Cross Spectrum Auto and Cross Correlation Transfer Function and Filtering Convolution were considered for a wide variety of input data from low frequency Clear Air Turbulence cycles hour to high frequency acoustic data 10 Hz A sample problem supplied by AFFDL was analyzed by in house optical digital and analog computers to demonstrate the degree of computational equivalence Next a study of twelve processing areas at Flight Dynamics Laboratory was performed to uncover promising areas for Optical Processing Although most requirements could be met all twelve users reported a dynamic range requirement 10 dB or more than that which is available in established optical processing technology Areas in which optical processing shows advantages over digital processing viz two dimensional Fourier transforms and high BT products were not desired nor within the current mission of the laboratory data Cost data for the three processing methods were generated For large volume processing the digital and optical implementations were found to be roughly equal and less than the cost of analog equipment for spectrum analysis The digital method is found to be system cost effective in that once a special purpose Fast Fourier Transform FTT computer is purchased to generate power spectrum and other functions can be calculated with negligible increase in cost

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