applied optics

Design and characteristic analysis of an all-optical AND, XOR, and XNOR Y-shaped MIM waveguide for high-speed information processing

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All-optical logic gates are exceptionally suited for Boolean ultrahigh-speed operation and logical computing. This study presents a plasmonic model that uses a Y-shaped metal–insulator–metal waveguide structure that realizes the ultrafast all-optical AND, XOR, and XNOR gate operation that is developed at a footprint of 6.6 µm × 3.4 µm with a wavelength of 1.55 µm. This construction relies on the notion of linear interference. The insertion loss and extinction ratio of the model are observed as 1.49 dB and 21.49 dB for AND, 1.03 dB and 18.97 dB for XOR, and 2.06 dB, and 10.92 dB for XNOR, respectively. The transmission efficiency, response time, and speed of the structure also are calculated and are used to improve the performance of any complex circuit in the future. The theoretical analysis of the proposed structure is carried out using the finite-difference time-domain method.   © 2022 Optica Publishing Group

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1. INTRODUCTION

The semiconductor industry has made enormous progress during the last few decades creating smaller, quicker, and more potent electronic devices, despite limits in low switching time, high input power, high power dissipation, limited bandwidth, and connectivity delays [1,2]. To overcome these limits, optical communications emerged and rapidly gained popularity because it replaced electrons with photons to transmit information [3]. Because of its enormous operational bandwidth, minimal electromagnetic interference (EMI), rapid speed, and massive data transmission capability, optics outperforms electronic systems [4,5]. As a result, optical circuits are seen as very bright prospects for signal transmission and processing, which can provide promising solutions [6].

Electronics or photonics are the most commonly used technologies in communications systems [7]. However, both face limitations in terms of speed and miniaturization [8,9]. As a result, researchers are developing a new technology called plasmonics [10]. The term plasmonics comes from plasmons, which are quanta linked with collective excitation of unpaired electrons in metals. Plasmonics is a technique used to compress electromagnetic waves into tiny structures, which could lead to a new generation of ultrafast computer circuits and ultrasensitive detectors [11]. Surface plasmon polaritons (SPPs) are generated, manipulated, and detected through the science of plasmonics, which avoids the diffraction limit found in photonics [12]. Plasmonics allow light to be manipulated at subwavelength scales, potentially bridging the gap between traditional optics and nanoelectronics. Plasmon waves operate at optical frequencies that are a million times greater than the frequency of an electronic microprocessor. The higher the frequency of the wave, the more information we can transport [10–12]. Loss inside SPs has inhibited the use of plasmonics; however, this has been addressed by employing multiple waveguides serving as a metal–insulator–metal (MIM) structure [13–16], or a metal–dor and insulator–metal–insulator (IMI) structure [17]. Only MIMs have the strength to confine light to deep subwavelengths and route light at the nanoscale. MIM is combined with a variety of nanocavities to create all-optical tiny switching devices.

Logic gates are the crucial tenets in all digital devices. A Mach–Zehnder interferometer (MZI) based on a semiconductor optical amplifier (SOA) and a MZI based on lithium–niobate LiNbO$_3$ were used to build logic gates. Electrical signals are

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Speed of Information-Processing and Intelligence Philip A. Vernon,1987 There is an abundance of research and theorizing that exists on the contributions of reaction times mental speed and speed of information processing to individual differences in intelligence and mental abilities Much of this research is reviewed and discussed in this volume

Information Processing Speed in Clinical Populations John DeLuca,Jessica H. Kalmar,2013-05-13 Although investigated for over 100 years it is only now that we are beginning to understand how speed of information processing is affected in various clinical populations Processing speed has a major impact on higher level cognitive abilities and is extremely vulnerable to neurological insult and the aging process The importance of processing speed with respect to brain function cognition and overall quality of life is now the focus of a new and exciting body of research in clinical populations This book provides a scholarly and clinically sensitive review of research on processing speed and its issues in clinical populations Readers will come away with an in depth understanding of human information processing speed including its historical development its relationship to other cognitive functions the developmental course of the ability across the lifespan and its impact on everyday life in various clinical populations Other highlights of the text are its discussion of the speed vs accuracy trade off tools available for measuring processing speed the unfolding research on genetic contributions to processing speed and the latest ideas in rehabilitation With contributing authors who are experts in their fields Information Processing Speed in Clinical Populations represents a valuable resource for researchers scholars and clinicians by providing a concise summary of the existing research on processing speed across an array of disciplines and populations   **Information Processing Speed in Clinical Populations** John DeLuca,Jessica H. Kalmar,2013-05-13 Although investigated for over 100 years it is only now that we are beginning to understand how speed of information processing is affected in various clinical populations Processing speed has a major impact on higher level cognitive abilities and is extremely vulnerable to neurological insult and the aging process The importance of processing speed with respect to brain function cognition and overall quality of life is now the focus of a new and exciting body of research in clinical populations This book provides a scholarly and clinically sensitive review of research on processing speed and its issues in clinical populations Readers will come away with an in depth understanding of human information processing speed including its historical development its relationship to other cognitive functions the developmental course of the ability across the lifespan and its impact on everyday life in various clinical populations Other highlights of the text are its discussion of the speed vs accuracy trade off tools available for measuring processing speed the unfolding research on genetic contributions to processing speed and the latest ideas in rehabilitation With contributing authors who are experts in their fields Information Processing Speed in Clinical Populations represents a valuable resource for researchers scholars and clinicians by providing a concise summary of the existing research on processing speed across an array of disciplines and populations   **Speed of Information-Processing and**

Intelligence Philip A. Vernon,1988 There is an abundance of research and theorizing that exists on the contributions of reaction times mental speed and speed of information processing to individual differences in intelligence and mental abilities Much of this research is reviewed and discussed in this volume   Speed of Information Processing and Individual Differences in Intelligence Dennis P. Saccuzzo,Gerald E. Larson,Bernard Rimland,NAVY PERSONNEL RESEARCH AND DEVELOPMENT CENTER SAN DIEGO CA.,1986 A battery of tachistoscopic auditory reaction time and microcomputer generated measures of information processing speed was administered to 96 college students between 18 and 22 years of age In addition each subject was given a battery of tests designed to evaluate right and left cerebral hemisphere functioning Criterion measures included a verbal Vocabulary and nonverbal Block Design measure of intelligence Results revealed a general processing speed factor in addition to task specific sources of variability Moreover the processing speed tasks loaded on the same second order factor as did traditional measures of I Q The findings support the theoretical view that processing speed may be a partial source of individual differences in intelligence An important objective for future work in this area is to separate and evaluate the common and specific sources of variability on information processing tasks Keywords Cognitive speed Inspection time Reaction time and Scholastic aptitude intelligence Author   *Speed of Information Processing* Steven Mark Paul,1985   **International Conference on Applications and Techniques in Cyber Security and Intelligence ATCI 2018** Jemal Abawajy,Kim-Kwang Raymond Choo,Rafiqul Islam,Zheng Xu,Mohammed Atiquzzaman,2018-11-05 The book highlights innovative ideas cutting edge findings and novel techniques methods and applications touching on all aspects of technology and intelligence in smart city management and services Above all it explores developments and applications that are of practical use and value for Cyber Intelligence related methods which are frequently used in the context of city management and services   Building Intelligent Web Applications with AI 2025 Venkata Vijay Krishna Paruchuru, Dr. Jagdev Singh Rana, PREFACE The rapid evolution of artificial intelligence AI has paved the way for innovative intelligent solutions across a myriad of domains none more transformative than web development Today AI is not only enhancing user experiences but also reshaping how web applications are built deployed and interacted with From predictive search features to personalized recommendations and natural language processing the potential for AI to elevate web applications is vast yet the journey of integrating AI into web development can be complex and daunting Building Intelligent Web Applications with AI aims to demystify the process of incorporating AI into modern web development This book is designed for developers engineers and aspiring creators who are eager to explore the integration of AI technologies into their web applications but may not know where to start Whether you re building e commerce platforms social media networks or cutting edge web tools the principles and practices covered here will help you infuse your applications with intelligent capabilities that adapt to user needs and deliver superior experiences In this book we explore practical methods for incorporating AI driven features into web applications emphasizing a hands on approach to solving real world challenges Through practical examples detailed

tutorials and expert insights we cover the full range of AI technologies relevant to web development including machine learning natural language processing recommendation systems computer vision and more Each chapter is carefully structured to help readers gradually build their understanding of AI concepts and apply them directly to web projects We also address the key challenges that developers face when integrating AI from data collection and model training to dealing with bias and ensuring ethical usage Moreover as AI continues to evolve we place a strong emphasis on designing flexible and scalable architectures that can accommodate future advances in AI technologies Ultimately this book is about empowering web developers to take full advantage of AI s potential while maintaining a focus on usability performance and security As we continue to witness the convergence of AI and web technologies Building Intelligent Web Applications with AI provides both the foundation and inspiration to craft innovative applications that will stand at the forefront of the intelligent web revolution Whether you re an experienced developer or just starting out this book will equip you with the knowledge and tools to build the next generation of intelligent web applications Authors **Computers in Human Behavior** ,1991

Artificial Intelligence for Blockchain and Cybersecurity Powered IoT Applications Mariya Ouaissa,Mariyam Ouaissa,Zakaria Boulouard,Abhishek Kumar,Vandana Sharma,Keshav Kaushik,2024-12-30 The objective of this book is to showcase recent solutions and discuss the opportunities that AI blockchain and even their combinations can present to solve the issue of Internet of Things IoT security It delves into cuttingedge technologies and methodologies illustrating how these innovations can fortify IoT ecosystems against security threats The discussion includes a comprehensive analysis of AI techniques such as machine learning and deep learning which can detect and respond to security breaches in real time The role of blockchain in ensuring data integrity transparency and tamper proof transactions is also thoroughly examined Furthermore this book will present solutions that will help analyze complex patterns in user data and ultimately improve productivity **The Quarterly Journal of Experimental Psychology** ,2001 Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society. Annual Conference,1991 **Speed of Information Processing and Intelligence** Mark A. Small,1985 **Polish Psychological Bulletin** ,1996 **Psychology** Douglas A. Bernstein,1997 Examines the ways in which research methods have been applied to understanding behaviour and mental processes The unique Linkages system helps students understand the relationships among the subfields of psychology **Child and Adolescent Development** Danuta Bukatko,2008 This new chronological edition is based on the well established topically organized text by Bukatko and Daehler Child Development A Thematic Approach 5 e Addressing physical social and emotional development in a linear fashion this text starts with pre natal development and progresses through birth and the newborn baby infancy and toddlerhood early childhood middle childhood and adolescence Developed to accommodate the more applied focus of courses in nursing parenthood education family studies and human ecology this text benefits from the authors focus on research through an

emphasis on developmental themes Five themes on development are found in every chapter and are listed in the chapter opener called out in the margin where the theme is addressed and summarized in aSummary of Developmental Themessection at the end of the chapter The five themes explore nature and nurture sociocultural contexts continuous vs discontinuous development the domains of development and risk or resilience in development Extensive Contexts of Development chapters for each development stage broaden the scope of the issues discussed by examining the child adolescent within the context of family peers and community Research Applied to Parenting Educationboxes provide practical advice based on research findings and cover such topics as reducing SIDS monitoring TV viewing reciprocal teaching and reading to children Atypical Developmentsections focus on topics related to non normative development including eating disorders autism attention deficit disorder detecting hearing loss depression conduct disorders and post traumatic stress disorder PTSD Summary Tablesare two page graphic timelines that summarize the various milestones of development and show the sequence of the child s development within a given domain infancy early childhood middle childhood adolescence Chapter Opening Vignettesdraw students into real life scenarios by applying and exploring concepts of development Marginal features See for YourselfandWhat Do You Think invite students to critically evaluate and explore further related material on the Online Study Center Additional pedagogy includes section summaries within each chapter and comprehensiveChapter Recapsthat feature aSummary of Developmental Themes aChapter Review and a list ofKey Terms and Concepts **The Relationship Between Psychometric Intelligence and the Speed of Information Processing in Normal, Learning Disabled, and Brain Injured Adults** Christopher Alan Sink,1988 **Intelligent Testing with the WISC-III** Alan S. Kaufman,1994-08-23 Now from the man whose name has become synonymous worldwide with the intelligent use of intelligence testing here is the definitive guide to Intelligent Testing with the WISC III **RELATIONS OF INFORMATION PROCESSING SPEED TO INTELLIGENCE AND PERSONALITY CHARACTERISTICS IN HIGH ABILITY SCHOOL STUDENTS** Svetlana Petrova,2017 The literature regarding speed of information processing in relations to cognitive and non cognitive characteristics in high ability children is limited and inconsistent Our study aimed to examine the interrelations of information processing speed to intelligence creativity self concept and emotional peculiarities in secondary school children with average and high intellectual abilities A total 120 students equally boys and girls were investigated two times in grades 9 14 16 years and 11 16 18 years They were divided into two groups The control group included 60 ordinary unselected students and the gifted group included 60 students preliminary selected according to the teachers ratings and testing of abilities the top ten percent We used the following methods the Number Connection Test by Oswald the Cognitive Ability tests verbal mathematical nonverbal and general abilities the Tests of Creativity **Information Processing Through the First Year of Life** Richard L. Canfield,1997 Poets and scientists alike have seen the eyes as windows to the mind and nowhere have the eyes been more important for understanding the mind than in the

work of developmental psychologists studying infant perception and cognition Here the authors studied age related change in anticipation and reaction time using the Visual Expectation Paradigm VExP The results reported here provide a detailed picture of continuity and change as well as the potential of VExP as a standard tool for studying infant cognition and development

Speed Of Informationprocessing And Intelligence Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Speed Of Informationprocessing And Intelligence**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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