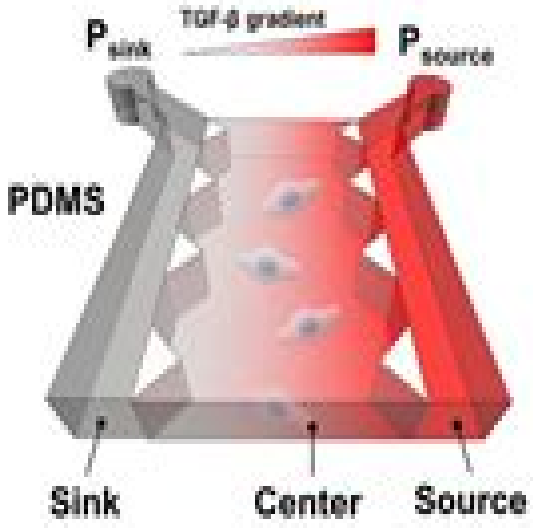
EXPERIMENT SETUP



EXPERIMENT RESULTS

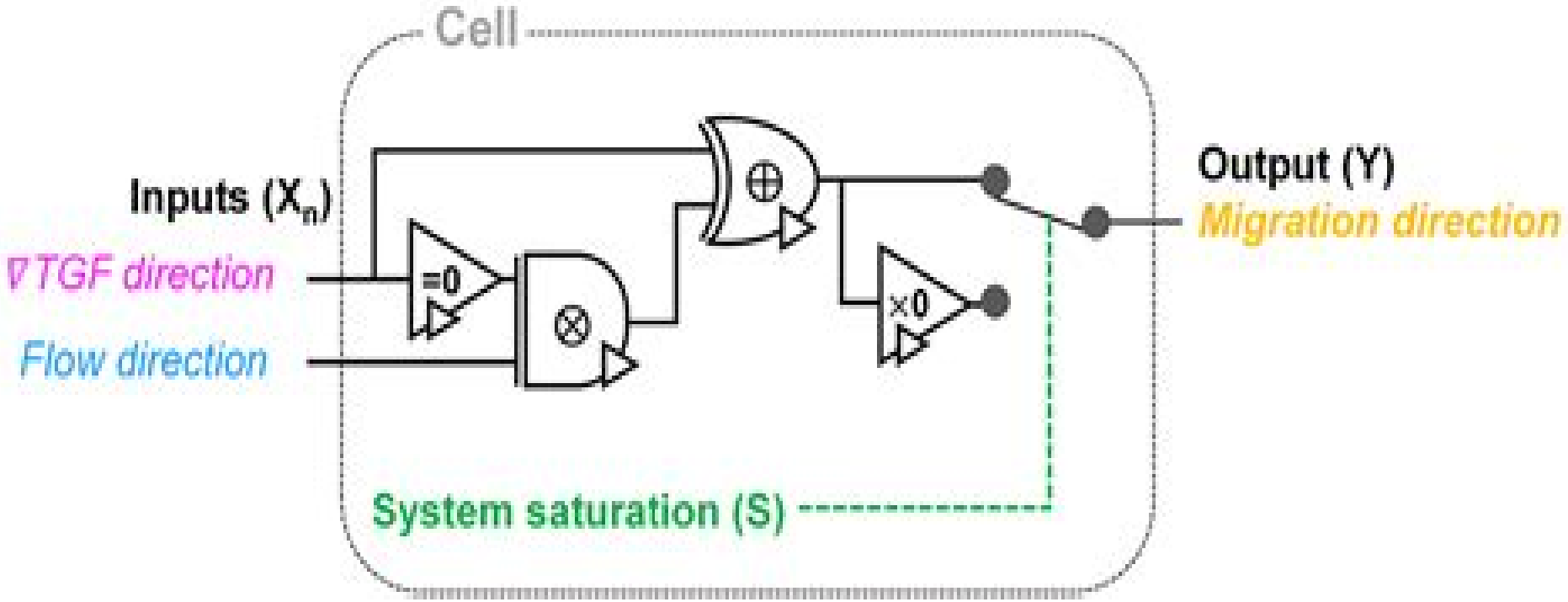
Chemical direction

Flow direction	+	0	−
+	0.62	0.37	-0.53
0	0.48	0.07	-0.48
−	0.53	-0.28	-0.62

LOGIC MODEL

Chemical direction

Flow direction	+	0	−
+	+	+	−
0	+	0	−
−	+	−	−



Cellular Logic Image Processing

King Sun Fu,Theodosios Pavlidis

Cellular Logic Image Processing:

Cellular logic image processing ,1986 The application of cellular logic to image processing David Michael Watson,1974 **Morphological Image Processing: Architecture and VLSI design** P.P. Jonker,2012-12-06 Summary Based on the experiences of past designs and the outcome of recent studies in the comparisons of low level image processing architectures a pipelined system for real time low image processing has been designed and realized in CMOS technology To minimize design pitfalls a study was performed to the details of the design solutions that have been found in embodimentsof the three main architectural groups of image processing the Square Processor Arrays the Linear Processor Arrays and the Pipelines This is reflected in a theoretical model As the design is based on bitplane wise processing of images research was performed on the principles ofCellularLogic Processing of two dimensional images of binary A methodology has been developed that is based on the transformation images using sets of Hit or Miss masks This method appeared to be extendable to higher dimensional images A theoretical model for the generation of break point conditions in high dimensional images has been developed and applied up to dimension three **Progress In Image Analysis And Processing - Proceedings Of The 5th International Conference** Virginio Cantoni,Luigi P Cordella,Stefano Levialdi,G Sanniti Di Baja,1990-03-01 This volume contains papers presented at the 5th International Conference on Image Analysis and Processing It covers the most important topics of current interest in the field presenting a large collection of recent results achieved by leading academic and industrial research groups from several countries It contains invited lectures and research papers dealing with theoretical and applicative aspects of Image Processing It is a valuable and updated reference source for the Image Processing community It contains advanced architectural concepts and describes new frontiers for applicants **VLSI for Pattern Recognition and Image Processing** K.S. Fu,2013-03-08 During the past two decades there has been a considerable growth in interest in problems of pattern recognition and image processing PRIP This inter est has created an increasing need for methods and techniques for the design of PRIP systems PRIP involves analysis classification and interpretation of data Practical applications of PRIP include character recognition re mote sensing analysis of medical signals and images fingerprint and face identification target recognition and speech understanding One difficulty in making PRIP systems practically feasible and hence more popularly used is the requirement of computer time and storage This situation is particularly serious when the patterns to be analyzed are quite complex Thus it is of the utmost importance to investigate special comput er architectures and their implementations for PRIP Since the advent of VLSI technology it is possible to put thousands of components on one chip This reduces the cost of processors and increases the processing speed VLSI algorithms and their implementations have been recently developed for PRIP This book is intended to document the recent major progress in VLSI system design for PRIP applications **Multicomputers and Image Processing** Kendall Preston,1982-01-01 Multicomputers and Image Processing Algorithms and Programs is the second of a set presenting papers

from the third meeting held in Madison Wisconsin on May 27 30 1981 The workshop explores the large and powerful multicomputer arrays and networks with particular emphasis on the related aspects of developing algorithms and programs for multicomputer architectures Separating 33 papers into chapters this book reflects the three major aspects of the problem user algorithms and programs higher level languages and multicomputer architectures The first chapters present specific larger structure as well as whole program algorithms and their respective applications Other chapters describe the important high level programming of Fortran based language for the massively parallel processors and the set theory based language for expressing the structural image processing and perceptual operations effected by Cytocomputer and other cellular array motivated architectures The concluding chapters examine several major types of computer architectures that are being developed for large parallel serial multicomputer systems This book is of great value to computer programmers and scientists

A Digital Optical Cellular Image Processor John Kung-shiuh Huang,1990-12-13 The research detailed in this book has been motivated by the search for a simple parallel digital optical architecture for image processing The development of a simple unified consistent theory of parallel binary image processing is described and its implementation on digital optical processors is considered Both theoretical and experimental work are included and both algorithmic and architectural designs are covered Also presented are the experimental results of the implementation of a prototype Digital Optical Cellular Image Processor DOCIP system used to demonstrate the concept of the DOCIP architecture **Applications of Pattern Recognition** King-Sun Fu,2019-07-22 This monograph is intended to cover several major applications of pattern recognition After a brief introduction to pattern recognition in Chapter 1 the two major approaches statistical approach and syntactic approach are reviewed in Chapter 2 and 3 respectively Other topics include the application of pattern recognition to seismic wave interpretation to system reliability problems to medical data analysis as well as character and speech recognition

Selected Papers on Morphological Image Processing Tomasz Szoplik,1996 Topics in this volume include grayscale morphology morphological optics statistical morphology contrast features extraction and an overview of morphological filtering Biomedical Pattern Recognition and Image Processing King Sun Fu,Theodosios Pavlidis,1979 **Visual Communications and Image Processing** ,1991 **Visual Communications and Image Processing '91: Image Processing** Kou-Hu Tzou,1991 *Nonlinear Image Processing* ,1996 **Real Time Signal Processing V** Joel Trimble,1982 *High Speed Computing II* Keith Bromley,1989 **Parallel Computer Vision** Leonard Uhr,1987

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 ac Physics Briefs ,1993 *Parallel Architectures for Image Processing* Joydeep Ghosh,Colin G. Harrison,1990 **Applications of Digital Image Processing X** Andrew G. Tescher,1987

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