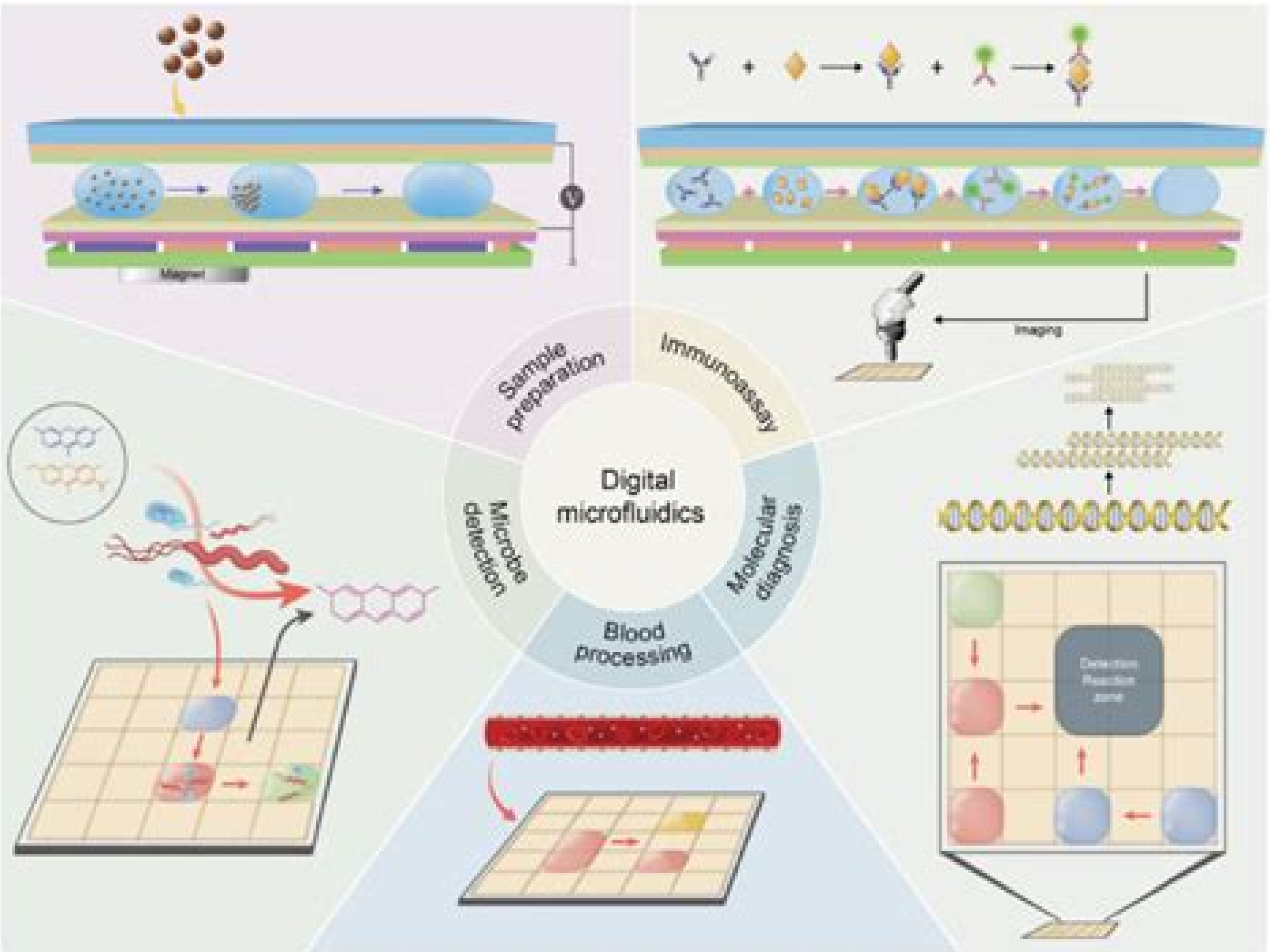




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**Paul Pop, Mirela Alistar, Elena
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Digital Microfluidic Biochips Krishnendu Chakrabarty, Fei Su, 2018-10-03 Digital Microfluidic Biochips focuses on the automated design and production of microfluidic based biochips for large scale bioassays and safety critical applications Bridging areas of electronic design automation with microfluidic biochip research the authors present a system level design automation framework that addresses key issues in the design analysis and testing of digital microfluidic biochips The book describes a new generation of microfluidic biochips with more complex designs that offer dynamic reconfigurability system scalability system integration and defect tolerance Part I describes a unified design methodology that targets design optimization under resource constraints Part II investigates cost effective testing techniques for digital microfluidic biochips that include test resource optimization and fault detection while running normal bioassays Part III focuses on different reconfiguration based defect tolerance techniques designed to increase the yield and dependability of digital microfluidic biochips Expanding upon results from ongoing research on CAD for biochips at Duke University this book presents new design methodologies that address some of the limitations in current full custom design techniques Digital Microfluidic Biochips is an essential resource for achieving the integration of microfluidic components in the next generation of system on chip and system in package designs

Exact Design of Digital Microfluidic Biochips Oliver Keszocze, Robert Wille, Rolf Drechsler, 2018-06-11 This book presents exact that is minimal solutions to individual steps in the design process for Digital Microfluidic Biochips DMFBs as well as a one pass approach that combines all these steps in a single process All of the approaches discussed are based on a formal model that can easily be extended to cope with further design problems In addition to the exact methods heuristic approaches are provided and the complexity classes of various design problems are determined Presents exact methods to tackle a variety of design problems for Digital Microfluidic Biochips DMFBs Describes an holistic one pass approach solving different design steps all at once Based on a formal model of DMFBs that is easily adaptable to deal with further design tasks

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biochips combine electronics with biochemistry providing access to new application areas in a wide variety of fields Continued technological innovations are essential to assuring the future role of these chips in functional diversification in biotech pharmaceuticals and other industries Revolutionary guidance on design opti

Micro-Electrode-Dot-Array Digital Microfluidic Biochips Zipeng Li,Krishnendu Chakrabarty,Tsung-Yi Ho,Chen-Yi Lee,2018-12-14 This book provides an insightful guide to the design testing and optimization of micro electrode dot array MEDA digital microfluidic biochips The authors focus on the characteristics specific for MEDA biochips e g real time sensing and advanced microfluidic operations like lamination mixing and droplet shape morphing Readers will be enabled to enhance the automated design and use of MEDA and to develop a set of solutions to facilitate the full exploitation of design complexities that are possible with standard CMOS fabrication techniques The book provides the first set of design automation and test techniques for MEDA biochips The methods described in this book have been validated using fabricated MEDA biochips in the laboratory Readers will benefit from an in depth look at the MEDA platform and how to combine microfluidics with software e g applying biomolecular protocols to software controlled and cyberphysical microfluidic biochips

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Fault-Tolerant Digital Microfluidic Biochips Paul Pop,Mirela Alistar,Elena Stuart,Jan Madsen,2015-09-07 This book describes for researchers in the fields of compiler technology design and test and electronic design automation the new area of digital microfluidic biochips DMBs and thus offers a new application area for their methods The authors present a routing based model of operation execution along with several associated compilation approaches which progressively relax the assumption that operations execute inside fixed rectangular modules Since operations can experience transient faults during the execution of a bioassay the authors show how to use both offline design time and online runtime recovery strategies The book also presents methods for the synthesis of fault tolerant application specific DMB architectures Presents the current models used for the research on compilation and synthesis techniques of DMBs in a tutorial fashion Includes a set of benchmarks which are presented in great detail and includes the source code of most of the techniques presented including solutions to the basic compilation and synthesis problems Discusses several new research problems in detail using numerous examples

Hardware/Software Co-Design and Optimization for Cyberphysical Integration in Digital Microfluidic Biochips Yan Luo,Krishnendu Chakrabarty,Tsung-Yi Ho,2014-08-06 This book describes a comprehensive framework for hardware software co design

optimization and use of robust low cost and cyberphysical digital microfluidic systems Readers with a background in electronic design automation will find this book to be a valuable reference for leveraging conventional VLSI CAD techniques for emerging technologies e g biochips or bioMEMS Readers from the circuit system design community will benefit from methods presented to extend design and testing techniques from microelectronics to mixed technology microsystems For readers from the microfluidics domain this book presents a new design and development strategy for cyberphysical microfluidics based biochips suitable for large scale bioassay applications Takes a transformative cyberphysical approach towards achieving closed loop and sensor feedback driven biochip operation under program control Presents a physically aware system reconfiguration technique that uses sensor data at intermediate checkpoints to dynamically reconfigure biochips Enables readers to simplify the structure of biochips while facilitating the general purpose use of digital microfluidic biochips for a wider range of applications

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