

# Krishnendu Chakrabarty

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

687  
papers

10,850  
citations

46  
h-index

80  
g-index

790  
ext. papers

13,221  
ext. citations

2.3  
avg, IF

6.88  
L-index

#	Paper	IF	Citations
687	Online Fault Detection in ReRAM-Based Computing Systems for Inferencing. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2022</b> , 1-14	2.6	
686	Design Automation and Test Solutions for Monolithic 3D ICs. <i>ACM Journal on Emerging Technologies in Computing Systems</i> , <b>2022</b> , 18, 1-49	1.7	0
685	Built-in Self-Test and Fault Localization for Inter-Layer Vias in Monolithic 3D ICs. <i>ACM Journal on Emerging Technologies in Computing Systems</i> , <b>2022</b> , 18, 1-37	1.7	1
684	Functional Criticality Analysis of Structural Faults in AI Accelerators. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2022</b> , 1-1	2.5	1
683	Obfuscation for IP Protection <b>2022</b> , 87-109		
682	Architecture for Security <b>2022</b> , 19-32		
681	Threat Landscape <b>2022</b> , 11-18		
680	Tools for Security <b>2022</b> , 33-60		
679	Watermarking for IP Protection <b>2022</b> , 61-85		
678	On the Impact of Uncertainties in Silicon-Photonic Neural Networks. <i>IEEE Design and Test</i> , <b>2022</b> , 1-1	1.4	0
677	Unsupervised Two-Stage Root-Cause Analysis with Transfer Learning for Integrated Systems. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2022</b> , 1-1	2.5	
676	A Resilient and Hierarchical IoT-based Solution for Stress Monitoring in Everyday Settings. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1	10.7	1
675	Heterogeneous Manycore Architectures Enabled by Processing-in-Memory for Deep Learning: From CNNs to GNNs: (ICCAD Special Session Paper) <b>2021</b> ,		1
674	Microfluidic Device Security <b>2021</b> , 555-577		
673	Acoustoelectronic nanotweezers enable dynamic and large-scale control of nanomaterials. <i>Nature Communications</i> , <b>2021</b> , 12, 3844	17.4	5
672	Computer-aided Design Techniques for Flow-based Microfluidic Lab-on-a-chip Systems. <i>ACM Computing Surveys</i> , <b>2021</b> , 54, 1-29	13.4	8
671	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2021</b> , 40, 143-156	2.5	5

670	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2021</b> , 40, 386-399	2.5	2
669	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2021</b> , 40, 185-198	2.5	1
668	Board-Level Functional Fault Identification Using Streaming Data. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2021</b> , 40, 1920-1933	2.5	3
667	AccuReD: High Accuracy Training of CNNs on ReRAM/GPU Heterogeneous 3-D Architecture. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2021</b> , 40, 971-984	2.5	12
666	Toward Hardware-Based IP Vulnerability Detection and Post-Deployment Patching in Systems-on-Chip. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2021</b> , 40, 1158-1171	2.5	5
665	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2021</b> , 40, 1301-1314	2.5	2
664	Acoustohydrodynamic tweezers via spatial arrangement of streaming vortices. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	15
663	Fault Modeling and Efficient Testing of Memristor-Based Memory. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2021</b> , 1-12	3.9	3
662	Knowledge Transfer in Board-Level Functional Fault Diagnosis Enabled by Domain Adaptation. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2021</b> , 1-1	2.5	2
661	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2021</b> , 1-1	2.5	2
660	Unsupervised Two-Stage Root-Cause Analysis for Integrated Systems. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2021</b> , 1-1	2.5	
659	Accurate and Robust Malware Detection: Running XGBoost on Run-Time Data from Performance Counters. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2021</b> , 1-1	2.5	1
658	Mixing Models as Integer Factorization: A Key to Sample Preparation with Microfluidic Biochips. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2021</b> , 1-1	2.5	0
657	Efficient Identification of Critical Faults in Memristor-based Inferencing Accelerators. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2021</b> , 1-1	2.5	
656	Lotus. <i>ACM Journal on Emerging Technologies in Computing Systems</i> , <b>2021</b> , 17, 1-21	1.7	1
655	C-Testing and Efficient Fault Localization for AI Accelerators*. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2021</b> , 1-1	2.5	4
654	Power Supply Noise-Aware At-Speed Delay Fault Testing of Monolithic 3-D ICs. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2021</b> , 1-14	2.6	
653	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2021</b> , 1-1	2.5	

652	Efficient Identification of Critical Faults in Memristor Crossbars for Deep Neural Networks <b>2021</b> ,		2
651	Modeling Silicon-Photonic Neural Networks under Uncertainties <b>2021</b> ,		5
650	Variation-Aware Delay Fault Testing for Carbon-Nanotube FET Circuits. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2021</b> , 29, 409-422	2.6	4
649	ReGraphX: NoC-enabled 3D Heterogeneous ReRAM Architecture for Training Graph Neural Networks <b>2021</b> ,		3
648	Perspectives on Emerging Computation-in-Memory Paradigms <b>2021</b> ,		1
647	Learning to Train CNNs on Faulty ReRAM-based Manycore Accelerators. <i>Transactions on Embedded Computing Systems</i> , <b>2021</b> , 20, 1-23	1.8	2
646	Run-time Malware Detection Using Embedded Trace Buffers. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2021</b> , 1-1	2.5	
645	Securing SoCs with FPGAs Against Rowhammer Attacks. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2021</b> , 1-1	2.5	0
644	. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2021</b> , 16, 2076-2089	8	2
643	Performance and Accuracy Tradeoffs for Training Graph Neural Networks on ReRAM-Based Architectures. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2021</b> , 1-14	2.6	1
642	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2021</b> , 1-1	2.5	2
641	Multi-Objective Optimization of ReRAM Crossbars for Robust DNN Inferencing under Stochastic Noise <b>2021</b> ,		1
640	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2020</b> , 1-1	2.5	1
639	Acoustic streaming vortices enable contactless, digital control of droplets. <i>Science Advances</i> , <b>2020</b> , 6, eaba0606	14.3	22
638	GRAMARCH: A GPU-ReRAM based Heterogeneous Architecture for Neural Image Segmentation <b>2020</b> ,		3
637	Reliability-Oriented IEEE Std. 1687 Network Design and Block-Aware High-Level Synthesis for MEDA Biochips* <b>2020</b> ,		4
636	. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2020</b> , 28, 1513-1526	2.6	11
635	<b>2020</b> ,		3

634	2020,			2
633	Programmable Daisy chaining of Microelectrodes to Secure Bioassay IP in MEDA Biochips. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2020, 28, 1269-1282	2.6		7
632	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2020, 39, 4908-4920	2.5		4
631	Unsupervised Root-Cause Analysis for Integrated Systems 2020,			3
630	C-Testing of AI Accelerators * 2020,			3
629	Secure Assay Execution on MEDA Biochips to Thwart Attacks Using Real-Time Sensing. <i>ACM Transactions on Design Automation of Electronic Systems</i> , 2020, 25, 1-25	1.5		5
628	3D-ReG. <i>ACM Journal on Emerging Technologies in Computing Systems</i> , 2020, 16, 1-24	1.7		8
627	Algorithmic Fault Detection for RRAM-based Matrix Operations. <i>ACM Transactions on Design Automation of Electronic Systems</i> , 2020, 25, 1-31	1.5		5
626	Molecular Barcoding as a Defense Against Benchtop Biochemical Attacks on DNA Fingerprinting and Information Forensics. <i>IEEE Transactions on Information Forensics and Security</i> , 2020, 15, 3595-3609	8		1
625	Runtime Identification of Hardware Trojans by Feature Analysis on Gate-Level Unstructured Data and Anomaly Detection. <i>ACM Transactions on Design Automation of Electronic Systems</i> , 2020, 25, 1-23	1.5		4
624	Fine-grained Adaptive Testing Based on Quality Prediction. <i>ACM Transactions on Design Automation of Electronic Systems</i> , 2020, 25, 1-25	1.5		0
623	Prevention: Tamper-Resistant Pin-Constrained Digital Microfluidic Biochips 2020, 51-77			
622	Security and Trust 2020, 19-49			
621	Mitigation: Tamper-Mitigating Routing Fabrics 2020, 109-133			
620	Accurate Anomaly Detection Using Correlation-Based Time-Series Analysis 2020, 23-51			0
619	Self-learning and Efficient Health-Status Analysis 2020, 115-136			
618	Healthcare IoT 2020, 515-545			22
617	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2020, 39, 2682-2695	2.5		7

616	Test Generation for Flow-Based Microfluidic Biochips With General Architectures. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2020</b> , 39, 2530-2543	2.5	3
615	Bio-chemical Assay Locking to Thwart Bio-IP Theft. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2020</b> , 25, 1-20	1.5	5
614	<b>2020</b> ,		1
613	Sensor-Array Optimization Based on Time-Series Data Analytics for Sanitation-Related Malodor Detection. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2020</b> , 14, 705-714	5.1	4
612	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2020</b> , 39, 3531-3543	2.5	2
611	Advances in Design and Test of Monolithic 3-D ICs. <i>IEEE Design and Test</i> , <b>2020</b> , 37, 92-100	1.4	5
610	Hardware Design and Fault-Tolerant Synthesis for Digital Acoustofluidic Biochips. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2020</b> , 14, 1065-1078	5.1	4
609	. <i>IEEE Transactions on Big Data</i> , <b>2020</b> , 6, 609-623	3.2	6
608	Hierarchical Symbol-Based Health-Status Analysis Using Time-Series Data in a Core Router System. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2020</b> , 39, 700-713	2.5	0
607	Synthesis of Tamper-Resistant Pin-Constrained Digital Microfluidic Biochips. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2020</b> , 39, 171-184	2.5	4
606	An Efficient Fault-Tolerant Valve-Based Microfluidic Routing Fabric for Droplet Barcoding in Single-Cell Analysis. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2020</b> , 39, 359-372	2.5	1
605	Software-Based Self-Testing Using Bounded Model Checking for Out-of-Order Superscalar Processors. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2020</b> , 39, 714-727	2.5	2
604	Cyberphysical Microfluidic Biochips <b>2020</b> , 1-17		2
603	Secure and Trustworthy Cyberphysical Microfluidic Biochips <b>2020</b> ,		1
602	Analysis and Design of Tamper-Mitigating Microfluidic Routing Fabrics. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2020</b> , 39, 1003-1016	2.5	0
601	Timing-Driven Flow-Channel Network Construction for Continuous-Flow Microfluidic Biochips. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2020</b> , 39, 1314-1327	2.5	13
600	An Interlayer Interconnect BIST and Diagnosis Solution for Monolithic 3-D ICs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2020</b> , 39, 3056-3066	2.5	3
599	Self-Learning and Efficient Health-Status Analysis for a Core Router System. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2020</b> , 39, 1935-1948	2.5	

598	Detection: Randomizing Checkpoints on Cyberphysical Digital Microfluidic Biochips <b>2020</b> , 79-107		
597	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2020</b> , 39, 4921-4934	2.5	2
596	Synterface. <i>Transactions on Embedded Computing Systems</i> , <b>2019</b> , 18, 1-21	1.8	1
595	Reliable Power Delivery and Analysis of Power-Supply Noise During Testing in Monolithic 3D ICs <b>2019</b> ,		3
594	Security Assessment of Microfluidic Fully-Programmable-Valve-Array Biochips <b>2019</b> ,		7
593	Black-Box Test-Coverage Analysis and Test-Cost Reduction Based on a Bayesian Network Model <b>2019</b> ,		1
592	Contactless, programmable acoustofluidic manipulation of objects on water. <i>Lab on A Chip</i> , <b>2019</b> , 19, 3397-3404	7.2	19
591	Impact of Electrostatic Coupling on Monolithic 3D-enabled Network on Chip. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2019</b> , 24, 1-22	1.5	5
590	Fault tolerance in neuromorphic computing systems <b>2019</b> ,		15
589	Execution of provably secure assays on MEDA biochips to thwart attacks <b>2019</b> ,		17
588	Robust sample preparation on digital microfluidic biochips <b>2019</b> ,		6
587	Factorization based dilution of biochemical fluids with micro-electrode-dot-array biochips <b>2019</b> ,		6
586	RTL-to-GDS Tool Flow and Design-for-Test Solutions for Monolithic 3D ICs <b>2019</b> ,		4
585	REGENT: A Heterogeneous ReRAM/GPU-based Architecture Enabled by NoC for Training CNNs <b>2019</b> ,		8
584	Multi-Tenant FPGA-based Reconfigurable Systems: Attacks and Defenses <b>2019</b> ,		6
583	Test and Design-for-Testability Solutions for Monolithic 3D Integrated Circuits <b>2019</b> ,		2
582	Security Assessment of Microfluidic Immunoassays <b>2019</b> ,		3
581	CAD-Base. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2019</b> , 24, 1-30	1.5	18

580	. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2019</b> , 14, 2901-2915	8	13
579	Anomaly Detection and Health-Status Analysis in a Core Router System. <i>IEEE Design and Test</i> , <b>2019</b> , 36, 7-17	1.4	1
578	Machine Learning-Based Aging Analysis <b>2019</b> , 265-289		1
577	Optimization of Test-Access Architectures and Test Scheduling for 3D ICs <b>2019</b> , 281-300		
576	Synthesis of Reconfigurable Flow-Based Biochips for Scalable Single-Cell Screening. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2019</b> , 38, 2255-2270	2.5	4
575	Sample preparation for multiple-reactant bioassays on micro-electrode-dot-array biochips <b>2019</b> ,		8
574	Fault-Tolerant Training Enabled by On-Line Fault Detection for RRAM-Based Neural Computing Systems. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2019</b> , 38, 1611-1624	2.5	20
573	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2019</b> , 38, 589-603	2.5	16
572	Efficient Generation of Dilution Gradients With Digital Microfluidic Biochips. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2019</b> , 38, 874-887	2.5	5
571	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2019</b> , 38, 1831-1843	2.5	9
570	Randomized Checkpoints: A Practical Defense for Cyber-Physical Microfluidic Systems. <i>IEEE Design and Test</i> , <b>2019</b> , 36, 5-13	1.4	10
569	Changepoint-Based Anomaly Detection for Prognostic Diagnosis in a Core Router System. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2019</b> , 38, 1331-1344	2.5	4
568	Synthesis of a Cyberphysical Hybrid Microfluidic Platform for Single-Cell Analysis. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2019</b> , 38, 1237-1250	2.5	5
567	. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2019</b> , 27, 2755-2766	2.6	10
566	Board-Level Functional Fault Identification using Streaming Data <b>2019</b> ,		8
565	Machine Learning-based Prediction of Test Power <b>2019</b> ,		7
564	Desieve the Attacker: Thwarting IP Theft in Sieve-Valve-based Biochips <b>2019</b> ,		6
563	BioScan: Parameter-Space Exploration of Synthetic Biocircuits Using MEDA Biochips* <b>2019</b> ,		1



562	System-level hardware failure prediction using deep learning <b>2019,</b>	9
561	. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2019</b> , 27, 2706-2719	2.6 7
560	PREEMPT <b>2019,</b>	10
559	Can Multi-Layer Microfluidic Design Methods Aid Bio-Intellectual Property Protection? <b>2019,</b>	2
558	Generalized Error-Correcting Sample Preparation <b>2019</b> , 113-134	
557	Conclusions and New Directions <b>2019</b> , 135-141	
556	Fault Modeling, Structural Testing, and Functional Testing <b>2019</b> , 83-112	
555	Efficient and Adaptive Error Recovery <b>2019</b> , 53-81	
554	Fault Recovery in Micro-Electrode-Dot-Array Digital Microfluidic Biochips Using an IJTAG NetworkBehaviors <b>2019,</b>	2
553	Sensor-Array Optimization Based on Mutual Information for Sanitation-Related Malodor Alerts <b>2019,</b>	3
552	Knowledge Transfer in Board-Level Functional Fault Identification using Domain Adaptation <b>2019,</b>	4
551	Fault-Tolerant Neuromorphic Computing Systems <b>2019,</b>	3
550	On Designing Efficient and Reliable Nonvolatile Memory-Based Computing-In-Memory Accelerators <b>2019,</b>	3
549	Hardware Fault Tolerance for Binary RRAM Crossbars <b>2019,</b>	3
548	Structural Test and Functional Test for Digital Acoustofluidic Biochips <b>2019,</b>	1
547	Programmable Daisy chaining of Microelectrodes for IP Protection in MEDA Biochips <b>2019,</b>	3
546	The Internet of Microfluidic Things: Perspectives on System Architecture and Design Challenges: Invited Paper <b>2019,</b>	1
545	Hardware Design and Experimental Demonstrations for Digital Acoustofluidic Biochips <b>2019,</b>	1

544	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2019</b> , 38, 1942-1955	2.5	6
543	Defect Clustering-Aware Spare-TSV Allocation in 3-D ICs for Yield Enhancement. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2019</b> , 38, 1928-1941	2.5	7
542	Droplet Size-Aware High-Level Synthesis <b>2019</b> , 21-51		
541	Predicting $\{X\}$ -Sensitivity of Circuit-Inputs on Test-Coverage: A Machine-Learning Approach. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2019</b> , 38, 2343-2356	2.5	7
540	Micro-Electro-Dot-Array Digital Microfluidic Biochips: Technology, Design Automation, and Test Techniques. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2019</b> , 13, 292-313	5.1	19
539	Optimization of Multi-Target Sample Preparation On-Demand With Digital Microfluidic Biochips. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2019</b> , 38, 253-266	2.5	9
538	Multicast Testing of Interposer-Based 2.5D ICs. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2018</b> , 23, 1-25	1.5	1
537	Machine Learning for Hardware Security: Opportunities and Risks. <i>Journal of Electronic Testing: Theory and Applications (JETTA)</i> , <b>2018</b> , 34, 183-201	0.7	32
536	. <i>Proceedings of the IEEE</i> , <b>2018</b> , 106, 1717-1743	14.3	9
535	Keynote Paper: From EDA to IoT eHealth: Promises, Challenges, and Solutions. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2018</b> , 37, 2965-2978	2.5	57
534	Exact Synthesis of Biomolecular Protocols for Multiple Sample Pathways on Digital Microfluidic Biochips <b>2018</b> ,		3
533	Secure Randomized Checkpointing for Digital Microfluidic Biochips. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2018</b> , 37, 1119-1132	2.5	36
532	Data-Driven Resiliency Solutions for Boards and Systems <b>2018</b> ,		7
531	Testing 3D-SoCs Using 2-D Time-Division Multiplexing. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2018</b> , 37, 3177-3185	2.5	2
530	Workload-Aware Static Aging Monitoring and Mitigation of Timing-Critical Flip-Flops. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2018</b> , 37, 2098-2110	2.5	3
529	Fine-Grained Aging-Induced Delay Prediction Based on the Monitoring of Run-Time Stress. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2018</b> , 37, 1064-1075	2.5	14
528	Online Soft-Error Vulnerability Estimation for Memory Arrays and Logic Cores. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2018</b> , 37, 499-511	2.5	3
527	Leakage Current Analysis for Diagnosis of Bridge Defects in Power-Gating Designs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2018</b> , 37, 883-895	2.5	0

526	Structural and Functional Test Methods for Micro-Electrode-Dot-Array Digital Microfluidic Biochips. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2018</b> , 37, 968-981	2.5	18
525	Locking of biochemical assays for digital microfluidic biochips <b>2018</b> ,		23
524	Fault-tolerant valve-based microfluidic routing fabric for droplet barcoding in single-cell analysis <b>2018</b> ,		5
523	. <i>IEEE Transactions on Multi-Scale Computing Systems</i> , <b>2018</b> , 4, 577-592		16
522	Demand-Driven Single- and Multitarget Mixture Preparation Using Digital Microfluidic Biochips. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2018</b> , 23, 1-26	1.5	2
521	Performance and Thermal Tradeoffs for Energy-Efficient Monolithic 3D Network-on-Chip. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2018</b> , 23, 1-25	1.5	12
520	<b>2018</b> ,		8
519	Broadcast-based minimization of the overall access time for the IEEE 1687 network <b>2018</b> ,		10
518	Securing JTAG against data-integrity attacks <b>2018</b> ,		4
517	An inter-layer interconnect BIST solution for monolithic 3D ICs <b>2018</b> ,		3
516	Emerging Circuit Technologies: An Overview on the Next Generation of Circuits <b>2018</b> , 43-67		0
515	Stuck-at Fault Tolerance in RRAM Computing Systems. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , <b>2018</b> , 8, 102-115	5.2	46
514	Toward Predictive Fault Tolerance in a Core-Router System: Anomaly Detection Using Correlation-Based Time-Series Analysis. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2018</b> , 37, 2111-2124	2.5	7
513	Efficient and Adaptive Error Recovery in a Micro-Electrode-Dot-Array Digital Microfluidic Biochip. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2018</b> , 37, 601-614	2.5	22
512	<b>2018</b> ,		12
511	Built-In Self-Diagnosis and Fault-Tolerant Daisy-Chain Design in MEDA Biochips* <b>2018</b> ,		5
510	Access-Time Minimization in the IEEE 1687 Network Using Broadcast and Hardware Parallelism <b>2018</b> ,		4
509	Power-Supply Noise Analysis for Monolithic 3D ICs Using Electrical and Thermal Co-Simulation <b>2018</b>		1

508	Analysis of Process Variations, Defects, and Design-Induced Coupling in Memristors <b>2018</b> ,		12
507	Tamper-resistant pin-constrained digital microfluidic biochips <b>2018</b> ,		3
506	Failure prediction based on anomaly detection for complex core routers <b>2018</b> ,		2
505	Abetting Planned Obsolescence by Aging 3D Networks-on-Chip <b>2018</b> ,		4
504	Shadow attacks on MEDA biochips <b>2018</b> ,		7
503	Fault-Tolerant Unicast-Based Multicast for Reliable Network-on-Chip Testing. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2018</b> , 23, 1-23	1.5	7
502	. <i>IEEE Transactions on Multi-Scale Computing Systems</i> , <b>2018</b> , 4, 722-733		
501	Design-for-testability for continuous-flow microfluidic biochips <b>2018</b> ,		3
500	On Designing All-Optical Multipliers Using Mach-Zender Interferometers <b>2018</b> ,		3
499	Control-Layer Routing and Control-Pin Minimization for Flow-Based Microfluidic Biochips. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2017</b> , 36, 55-68	2.5	36
498	Exact routing for micro-electrode-dot-array digital microfluidic biochips <b>2017</b> ,		26
497	Computation-oriented fault-tolerance schemes for RRAM computing systems <b>2017</b> ,		17
496	A Branch-&-Bound Test-Access-Mechanism Optimization Method for Multi- $\mathbb{D}$ SoCs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2017</b> , 36, 1911-1924 <sup>2.5</sup>		1
495	Quo Vadis Test? The Past, the Present, and the Future: No Longer a Necessary Evil. <i>IEEE Design and Test</i> , <b>2017</b> , 34, 93-95	1.4	1
494	Tackling Test Challenges for Interposer-Based 2.5-D Integrated Circuits. <i>IEEE Design and Test</i> , <b>2017</b> , 34, 72-79	1.4	3
493	Test Architecture and Test-Path Scheduling <b>2017</b> , 81-108		
492	Robust TSV-based 3D NoC design to counteract electromigration and crosstalk noise <b>2017</b> ,		4
491	Test-cost optimization in a scan-compression architecture using support-vector regression <b>2017</b> ,		7

490	Computer-Aided Design of Microfluidic Very Large Scale Integration (mVLSI) Biochips <b>2017,</b>		6
489	Droplet Size-Aware High-Level Synthesis for Micro-Electrode-Dot-Array Digital Microfluidic Biochips. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2017</b> , 11, 612-626	5.1	36
488	Testing of Interposer-Based 2.5D Integrated Circuits <b>2017,</b>		1
487	Synthesis of Error-Recovery Protocols for Micro-Electrode-Dot-Array Digital Microfluidic Biochips. <i>Transactions on Embedded Computing Systems</i> , <b>2017</b> , 16, 1-22	1.8	15
486	Fault-Tolerant Training with On-Line Fault Detection for RRAM-Based Neural Computing Systems <b>2017,</b>		55
485	Sample Preparation on Micro-Electrode-Dot-Array Digital Microfluidic Biochips <b>2017,</b>		10
484	Offline Error Detection in MEDA-Based Digital Microfluidic Biochips Using Oscillation-Based Testing Methodology. <i>Journal of Electronic Testing: Theory and Applications (JETTA)</i> , <b>2017</b> , 33, 621-635	0.7	6
483	Impact of Electrostatic Coupling and Wafer-Bonding Defects on Delay Testing of Monolithic 3D Integrated Circuits. <i>ACM Journal on Emerging Technologies in Computing Systems</i> , <b>2017</b> , 13, 1-23	1.7	18
482	VFI-Based Power Management to Enhance the Lifetime of High-Performance 3D NoCs. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2017</b> , 23, 1-26	1.5	1
481	<b>2017,</b>		4
480	Testing microfluidic Fully Programmable Valve Arrays (FPVAs) <b>2017,</b>		21
479	CoSyn: Efficient single-cell analysis using a hybrid microfluidic platform <b>2017,</b>		11
478	ExTest Scheduling and Optimization for 2.5-D SoCs With Wrapped Tiles. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2017</b> , 36, 1030-1042	2.5	4
477	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2017</b> , 36, 733-746	2.5	35
476	Knowledge-Driven Board-Level Functional Fault Diagnosis <b>2017,</b>		2
475	Diagnosis Using Support Vector Machines (SVM) <b>2017,</b> 23-42		1
474	Knowledge Discovery and Knowledge Transfer <b>2017,</b> 121-142		
473	Diagnosis Using Multiple Classifiers and Majority-Weighted Voting (WMV) <b>2017,</b> 43-59		

472	Design-Space Exploration and Optimization of an Energy-Efficient and Reliable 3-D Small-World Network-on-Chip. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2017</b> , 36, 719-732	2.5	43
471	Prebond Testing and Test-Path Design for the Silicon Interposer in 2.5-D ICs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2017</b> , 36, 1406-1419	2.5	4
470	Security Implications of Cyberphysical Flow-Based Microfluidic Biochips <b>2017</b> ,		16
469	Design automation and testing of monolithic 3D ICs: Opportunities, challenges, and solutions: (Invited paper) <b>2017</b> ,		16
468	Droplet Size-Aware and Error-Correcting Sample Preparation Using Micro-Electrode-Dot-Array Digital Microfluidic Biochips. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2017</b> , 11, 1380-1391	5.1	16
467	Security Trade-Offs in Microfluidic Routing Fabrics <b>2017</b> ,		12
466	A Design-for-Test Solution for Monolithic 3D Integrated Circuits <b>2017</b> ,		8
465	Monolithic 3D-Enabled High Performance and Energy Efficient Network-on-Chip <b>2017</b> ,		14
464	Software-based online self-testing of network-on-chip using bounded model checking <b>2017</b> ,		3
463	Changepoint-based anomaly detection in a core router system <b>2017</b> ,		9
462	Symbol-based health-status analysis in a core router system <b>2017</b> ,		4
461	Run-time hardware trojan detection using performance counters <b>2017</b> ,		11
460	<b>2017</b> ,		19
459	Sortex: Efficient timing-driven synthesis of reconfigurable flow-based biochips for scalable single-cell screening <b>2017</b> ,		3
458	Handling Missing Syndromes <b>2017</b> , 95-119		
457	Adaptive Diagnosis Using Decision Trees (DT) <b>2017</b> , 61-78		
456	Information-Theoretic Syndrome and Root-Cause Evaluation <b>2017</b> , 79-93		
455	Control-Layer Optimization <b>2017</b> , 25-52		1

454	A Programmable Method for Low-Power Scan Shift in SoC Dies <b>2017</b> , 163-178		
453	Fault Modeling, Testing, and Design for Testability <b>2017</b> , 81-115		1
452	Built-In Self-Test <b>2017</b> , 109-133		
451	Wash Optimization for Cross-Contamination Removal <b>2017</b> , 53-79		0
450	Techniques for Fault Diagnosis <b>2017</b> , 117-136		
449	Post-bond Scan-Based Testing of Interposer Interconnects <b>2017</b> , 49-80		
448	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2016</b> , 35, 985-998	2.5	19
447	Adaptive Board-Level Functional Fault Diagnosis Using Incremental Decision Trees. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2016</b> , 35, 323-336	2.5	12
446	Two-dimensional time-division multiplexing for 3D-SoCs <b>2016</b> ,		2
445	Energy-efficient and reliable 3D network-on-chip (NoC): architectures and optimization algorithms <b>2016</b> ,		5
444	A design-for-test solution for monolithic 3D integrated circuits <b>2016</b> ,		3
443	. <i>Computer</i> , <b>2016</b> , 49, 36-43	1.6	35
442	The hype, myths, and realities of testing 3D integrated circuits <b>2016</b> ,		4
441	Analysis of electrostatic coupling in monolithic 3D integrated circuits and its impact on delay testing <b>2016</b> ,		10
440	Editorial First TVLSI Best AE and Reviewer Awards. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2016</b> , 24, 2613-2613	2.6	
439	A programmable method for low-power scan shift in SoC integrated circuits <b>2016</b> ,		9
438	High-level synthesis for micro-electrode-dot-array digital microfluidic biochips <b>2016</b> ,		41
437	Online soft-error vulnerability estimation for memory arrays <b>2016</b> ,		3

436	Optimization of the IEEE 1687 access network for hybrid access schedules <b>2016,</b>		4
435	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2016</b> , 35, 559-572	2.5	17
434	On-Chip Droop-Induced Circuit Delay Prediction Based on Support-Vector Machines. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2016</b> , 35, 665-678	2.5	9
433	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2016</b> , 35, 1192-1205	2.5	4
432	Optimization of 3D Digital Microfluidic Biochips for the Multiplexed Polymerase Chain Reaction. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2016</b> , 21, 1-27	1.5	13
431	Security Assessment of Cyberphysical Digital Microfluidic Biochips. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2016</b> , 13, 445-58	3	41
430	. <i>IEEE Transactions on Computers</i> , <b>2016</b> , 65, 2767-2779	2.5	32
429	A Distributed, Reconfigurable, and Reusable BIST Infrastructure for Test and Diagnosis of 3-D-Stacked ICs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2016</b> , 35, 309-322	2.5	2
428	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2016</b> , 35, 1179-1191	2.5	11
427	Error-Correcting Sample Preparation with Cyberphysical Digital Microfluidic Lab-on-Chip. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2016</b> , 22, 1-29	1.5	29
426	Reliability and performance trade-offs for 3D NoC-enabled multicore chips <b>2016,</b>		6
425	Integrated and real-time quantitative analysis using cyberphysical digital-microfluidic biochips <b>2016</b>		7
424	Pre-bond testing of the silicon interposer in 2.5D ICs <b>2016,</b>		5
423	Multicast Test Architecture and Test Scheduling for Interposer-Based 2.5D ICs <b>2016,</b>		2
422	Digital-Microfluidic Biochips. <i>Computer</i> , <b>2016</b> , 49, 8-9	1.6	2
421	Microfluidic encryption of on-chip biochemical assays <b>2016,</b>		31
420	<b>2016,</b>		2
419	Impact of wafer-bonding defects on Monolithic 3D integrated circuits <b>2016,</b>		7



418	A unified test and fault-tolerant multicast solution for network-on-chip designs <b>2016,</b>		2
417	Accurate anomaly detection using correlation-based time-series analysis in a core router system <b>2016,</b>		12
416	Built-in self-test for micro-electrode-dot-array digital microfluidic biochips <b>2016,</b>		17
415	Securing digital microfluidic biochips by randomizing checkpoints <b>2016,</b>		15
414	A real-time digital-microfluidic platform for epigenetics <b>2016,</b>		6
413	Error recovery in a micro-electrode-dot-array digital microfluidic biochip? <b>2016,</b>		26
412	Adaptation of Biochemical Protocols to Handle Technology-Change for Digital Microfluidics. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2016</b> , 1-1	2.5	3
411	Data-Driven Optimization of Order Admission Policies in a Digital Print Factory. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2015</b> , 20, 1-25	1.5	3
410	Layout-Aware Mixture Preparation of Biochemical Fluids on Application-Specific Digital Microfluidic Biochips. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2015</b> , 20, 1-34	1.5	18
409	Aging- and Variation-Aware Delay Monitoring Using Representative Critical Path Selection. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2015</b> , 20, 1-23	1.5	14
408	ExTest scheduling for 2.5D system-on-chip integrated circuits <b>2015,</b>		3
407	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2015</b> , 34, 1873-1884	2.5	4
406	. <i>IEEE Design and Test</i> , <b>2015</b> , 32, 8-19	1.4	18
405	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2015</b> , 34, 122-135	2.5	4
404	Information-Theoretic Syndrome Evaluation, Statistical Root-Cause Analysis, and Correlation-Based Feature Selection for Guiding Board-Level Fault Diagnosis. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2015</b> , 34, 1014-1026	2.5	5
403	Data-Driven Optimization and Knowledge Discovery for an Enterprise Information System <b>2015,</b>		1
402	Self-learning and adaptive board-level functional fault diagnosis <b>2015,</b>		4
401	Microfluidic very large-scale integration for biochips: Technology, testing and fault-tolerant design <b>2015,</b>		9

400	Advances in Design Automation Techniques for Digital-Microfluidic Biochips <b>2015</b> , 190-223		18
399	Testing of digital microfluidic biochips with arbitrary layouts <b>2015</b> ,		1
398	Re-using BIST for circuit aging monitoring <b>2015</b> ,		8
397	Jump test for metallic CNTs in CNFET-based SRAM <b>2015</b> ,		4
396	Built-In Self-Test and Test Scheduling for Interposer-Based 2.5D IC. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2015</b> , 20, 1-24	1.5	12
395	Test-Cost Modeling and Optimal Test-Flow Selection of 3-D-Stacked ICs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2015</b> , 34, 1523-1536	2.5	13
394	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2015</b> , 34, 29-42	2.5	26
393	Hardware/Software Co-Design and Optimization for Cyberphysical Integration in Digital Microfluidic Biochips <b>2015</b> ,		8
392	. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2015</b> , 12, 701-715	4.9	8
391	Error-Recovery in Cyberphysical Biochips <b>2015</b> , 27-60		
390	Real-Time Error Recovery Using a Compact Dictionary <b>2015</b> , 61-94		
389	Biochemistry Synthesis Under Completion-Time Uncertainties in Fluidic Operations <b>2015</b> , 95-116		
388	Optimization of On-Chip Polymerase Chain Reaction <b>2015</b> , 117-146		
387	Pin-Count Minimization for Application-Independent Chips <b>2015</b> , 147-183		
386	. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2015</b> , 23, 317-330	2.6	17
385	Fine-grained aging prediction based on the monitoring of run-time stress using DfT infrastructure <b>2015</b> ,		7
384	Error recovery in digital microfluidics for personalized medicine <b>2015</b> ,		5
383	<b>2015</b> ,		3

382	Contactless pre-bond TSV fault diagnosis using duty-cycle detectors and ring oscillators <b>2015,</b>		13
381	An online thermal-constrained task scheduler for 3D multi-core processors <b>2015,</b>		11
380	Interconnect Testing and Test-Path Scheduling for Interposer-Based 2.5-D ICs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2015</b> , 34, 136-149	2.5	4
379	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2015</b> , 34, 668-681	2.5	8
378	Fault diagnosis for flow-based microfluidic biochips <b>2015,</b>		7
377	<b>2015,</b>		2
376	Test-access-mechanism optimization for multi-Vdd SoCs <b>2015,</b>		3
375	Experimental demonstration of error recovery in an integrated cyberphysical digital-microfluidic platform <b>2015,</b>		18
374	A general and exact routing methodology for Digital Microfluidic Biochips <b>2015,</b>		22
373	Test and debug solutions for 3D-stacked integrated circuits <b>2015,</b>		1
372	. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2015</b> , 23, 1-17	2.6	2
371	Optimizing 3D NoC design for energy efficiency: A machine learning approach <b>2015,</b>		24
370	A general testing method for digital microfluidic biochips under physical constraints <b>2015,</b>		10
369	Cyber-physical integration in programmable microfluidic biochips <b>2015,</b>		2
368	Security implications of cyberphysical digital microfluidic biochips <b>2015,</b>		20
367	Defect clustering-aware spare-TSV allocation for 3D ICs <b>2015,</b>		8
366	. <i>IEEE Transactions on Multi-Scale Computing Systems</i> , <b>2015</b> , 1, 46-58		23
365	Self-awareness and self-learning for resiliency in real-time systems <b>2015,</b>		1

364	Waste-aware single-target dilution of a biochemical fluid using digital microfluidic biochips. <i>The Integration VLSI Journal</i> , <b>2015</b> , 51, 194-207	1.4	11
363	Accurate Predictions of Process-Execution Time and Process Status Based on Support-Vector Regression for Enterprise Information Systems. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2015</b> , 34, 354-366	2.5	0
362	Accurate Analysis and Prediction of Enterprise Service-Level Performance. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2015</b> , 20, 1-23	1.5	1
361	Offline Washing Schemes for Residue Removal in Digital Microfluidic Biochips. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2015</b> , 21, 1-33	1.5	3
360	Pin-Limited Cyberphysical Microfluidic Biochip <b>2015</b> , 185-193		0
359	Analysis and Prediction of Enterprise Service-Level Performance <b>2015</b> , 115-138		
358	Predictions of Process-Execution Time and Process-Execution Status <b>2015</b> , 61-83		
357	Microfluidic Logic Gates <b>2015</b> , 1953-1969		
356	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2014</b> , 33, 903-916	2.5	5
355	Built-In Self-Test, Diagnosis, and Repair of MultiMode Power Switches. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2014</b> , 33, 1231-1244	2.5	7
354	Test generation and design-for-testability for flow-based mVLSI microfluidic biochips <b>2014</b> ,		13
353	Test-Delivery Optimization in Manycore SOCs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2014</b> , 33, 1067-1080	2.5	7
352	Retiming for Delay Recovery After DfT Insertion on Interdie Paths in 3-D ICs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2014</b> , 33, 464-475	2.5	2
351	Scan-Based Testing of Post-Bond Silicon Interposer Interconnects in 2.5-D ICs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2014</b> , 33, 1410-1423	2.5	8
350	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2014</b> , 33, 1131-1144	2.5	29
349	Testing of Flow-Based Microfluidic Biochips: Fault Modeling, Test Generation, and Experimental Demonstration. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2014</b> , 33, 1463-1475	2.5	48
348	Correctness Checking of Bio-chemical Protocol Realizations on a Digital Microfluidic Biochip <b>2014</b> ,		10
347	Contactless Pre-Bond TSV Test and Diagnosis Using Ring Oscillators and Multiple Voltage Levels. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2014</b> , 33, 774-785	2.5	34

346	<b>2014,</b>			13
345	. <i>IEEE Transactions on Computers</i> , <b>2014</b> , 63, 691-702		2.5	13
344	. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2014</b> , 22, 667-674		2.6	10
343	Static Power Reduction Using Variation-Tolerant and Reconfigurable Multi-Mode Power Switches. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2014</b> , 22, 13-26		2.6	11
342	Test and Design-for-Testability Solutions for 3D Integrated Circuits. <i>IPSJ Transactions on System LSI Design Methodology</i> , <b>2014</b> , 7, 56-73		0.2	3
341	Output selection for test response compaction based on multiple counters <b>2014,</b>			1
340	Wash optimization for cross-contamination removal in flow-based microfluidic biochips <b>2014,</b>			9
339	Biochip Synthesis and Dynamic Error Recovery for Sample Preparation Using Digital Microfluidics. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2014</b> , 33, 183-196		2.5	29
338	Output-bit selection with X-avoidance using multiple counters for test-response compaction <b>2014,</b>			1
337	High-throughput dilution engine for sample preparation on digital microfluidic biochips. <i>IET Computers and Digital Techniques</i> , <b>2014</b> , 8, 163-171		0.9	11
336	Reliability-Driven Pipelined Scan-Like Testing of Digital Microfluidic Biochips <b>2014,</b>			17
335	Demand-driven mixture preparation and droplet streaming using digital microfluidic biochips <b>2014,</b>			3
334	Theory and analysis of generalized mixing and dilution of biochemical fluids using digital microfluidic biochips. <i>ACM Journal on Emerging Technologies in Computing Systems</i> , <b>2014</b> , 11, 1-33		1.7	16
333	Demand-Driven Mixture Preparation and Droplet Streaming using Digital Microfluidic Biochips <b>2014,</b>			3
332	Efficient LFSR Reseeding Based on Internal-Response Feedback. <i>Journal of Electronic Testing: Theory and Applications (JETTA)</i> , <b>2014</b> , 30, 673-685		0.7	2
331	Board-Level Functional Fault Diagnosis Using Multikernel Support Vector Machines and Incremental Learning. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2014</b> , 33, 279-290		2.5	34
330	At-speed interconnect testing and test-path optimization for 2.5D ICs <b>2014,</b>			10
329	On-chip voltage-droop prediction using support-vector machines <b>2014,</b>			12

328	Optimization of heaters in a digital microfluidic biochip for the polymerase chain reaction <b>2014</b> ,		2
327	Design-for-Test and Test Optimization Techniques for TSV-based 3D Stacked ICs <b>2014</b> ,		14
326	Built-In Self-Test for TSVs <b>2014</b> , 55-79		0
325	Control-layer optimization for flow-based mVLSI microfluidic biochips <b>2014</b> ,		23
324	Knowledge discovery and knowledge transfer in board-level functional fault diagnosis <b>2014</b> ,		15
323	Massive signal tracing using on-chip DRAM for in-system silicon debug <b>2014</b> ,		11
322	Built-in self-test for interposer-based 2.5D ICs <b>2014</b> ,		1
321	. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2014</b> , 22, 197-206	2.6	8
320	An Optimal Two-Mixer Dilution Engine with Digital Microfluidics for Low-Power Applications. <i>Journal of Low Power Electronics</i> , <b>2014</b> , 10, 506-518	1.2	2
319	Pre-bond TSV Test Through TSV Probing <b>2014</b> , 81-113		1
318	Overcoming the Timing Overhead of Test Architectures on Inter-Die Critical Paths <b>2014</b> , 137-158		
317	Mobility Management with Integrated Coverage and Connectivity. <i>Signals and Communication Technology</i> , <b>2014</b> , 313-350	0.5	
316	System-Level Design Methodology <b>2014</b> , 169-210		1
315	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2013</b> , 32, 59-72	2.5	106
314	Test compaction for small-delay defects using an effective path selection scheme. <i>ACM Transactions on Design Automation of Electronic Systems</i> , <b>2013</b> , 18, 1-23	1.5	17
313	Post-DfT-insertion retiming for delay recovery on inter-die paths in 3D ICs <b>2013</b> ,		2
312	Detection, Diagnosis, and Recovery From Clock-Domain Crossing Failures in Multiclock SoCs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2013</b> , 32, 1395-1408	2.5	11
311	Robust optimization of test-architecture designs for core-based SoCs <b>2013</b> ,		2

310	Test Generation of Path Delay Faults Induced by Defects in Power TSV <b>2013</b> ,		1
309	Generation of Effective 1-Detect TDF Patterns for Detecting Small-Delay Defects. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2013</b> , 32, 1583-1594	2.5	4
308	Testing of flow-based microfluidic biochips <b>2013</b> ,		2
307	Non-invasive pre-bond TSV test using ring oscillators and multiple voltage levels <b>2013</b> ,		21
306	Optimization of polymerase chain reaction on a cyberphysical digital microfluidic biochip <b>2013</b> ,		12
305	On Producing Linear Dilution Gradient of a Sample with a Digital Microfluidic Biochip <b>2013</b> ,		15
304	Handling Missing Syndromes in Board-Level Functional-Fault Diagnosis <b>2013</b> ,		4
303	Testing for SoCs with advanced static and dynamic power-management capabilities <b>2013</b> ,		9
302	Thermal-aware test scheduling for NOC-based 3D integrated circuits <b>2013</b> ,		7
301	Representative critical-path selection for aging-induced delay monitoring <b>2013</b> ,		11
300	Fault detection, real-time error recovery, and experimental demonstration for digital microfluidic biochips <b>2013</b> ,		37
299	Optimal Two-Mixer Scheduling in Dilution Engine on a Digital Microfluidic Biochip <b>2013</b> ,		1
298	Real-Time Error Recovery in Cyberphysical Digital-Microfluidic Biochips Using a Compact Dictionary. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2013</b> , 32, 1839-1852	2.5	30
297	Routing-aware resource allocation for mixture preparation in digital microfluidic biochips <b>2013</b> ,		5
296	Board-Level Functional Fault Diagnosis Using Artificial Neural Networks, Support-Vector Machines, and Weighted-Majority Voting. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2013</b> , 32, 723-736	2.5	65
295	Post-bond Testing of the Silicon Interposer and Micro-bumps in 2.5D ICs <b>2013</b> ,		7
294	Counter-Based Output Selection for Test Response Compaction. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2013</b> , 32, 152-164	2.5	5
293	Efficient Pattern Generation for Small-Delay Defects Using Selection of Critical Faults. <i>Journal of Electronic Testing: Theory and Applications (JETTA)</i> , <b>2013</b> , 29, 35-48	0.7	1

292	Pre-Bond Probing of Through-Silicon Vias in 3-D Stacked ICs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2013</b> , 32, 547-558	2.5	13
291	Information-theoretic syndrome and root-cause analysis for guiding board-level fault diagnosis <b>2013</b> ,		6
290	Crosstalk- and Process Variations-Aware High-Quality Tests for Small-Delay Defects. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2013</b> , 21, 1129-1142	2.6	17
289	On effective and efficient in-field TSV repair for stacked 3D ICs <b>2013</b> ,		23
288	Design of cyberphysical digital microfluidic biochips under completion-time uncertainties in fluidic operations <b>2013</b> ,		15
287	Test-cost optimization and test-flow selection for 3D-stacked ICs <b>2013</b> ,		8
286	A New LFSR Reseeding Scheme via Internal Response Feedback <b>2013</b> ,		2
285	Efficient mixture preparation on digital microfluidic biochips <b>2013</b> ,		11
284	Face-to-face bus design with built-in self-test in 3D ICs <b>2013</b> ,		5
283	Design of Pin-Constrained General-Purpose Digital Microfluidic Biochips. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2013</b> , 32, 1307-1320	2.5	23
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279	Optimization of Droplet Routing and Control-Pin Mapping to Electrodes <b>2013</b> , 83-107		
278	Synchronization of Concurrently-Implemented Fluidic Operations in Pin-Constrained Biochips <b>2013</b> , 57-81		
277	On-Line Testing and Test Generation <b>2013</b> , 149-178		
276	Integrated Control-Path Design and Error Recovery <b>2013</b> , 179-199		
275	Design and Testing of Digital Microfluidic Biochips <b>2013</b> ,		7



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269	Adaptive Board-Level Functional Fault Diagnosis Using Decision Trees <b>2012</b> ,		23
268	TSV Stress-Aware ATPG for 3D Stacked ICs <b>2012</b> ,		7
267	Scan test of die logic in 3D ICs using TSV probing <b>2012</b> ,		7
266	. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2012</b> , 20, 723-736	2.6	8
265	Low-Cost Dilution Engine for Sample Preparation in Digital Microfluidic Biochips <b>2012</b> ,		9
264	Diagnosis of Board-Level Functional Failures Under Uncertainty Using Dempster-Shafer Theory. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2012</b> , 31, 1586-1599	2.5	13
263	Automated path planning for washing in digital microfluidic biochips <b>2012</b> ,		3
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261	Robust Timing-Aware Test Generation Using Pseudo-Boolean Optimization <b>2012</b> ,		10
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256	On-Line Error Detection in Digital Microfluidic Biochips <b>2012,</b>		4
255	<b>2012,</b>		15
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252	Ping-pong test: Compact test vector generation for reversible circuits <b>2012,</b>		13
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250	Reduced-Complexity Transition-Fault Test Generation for Non-scan Circuits through High-Level Mutant Injection <b>2012,</b>		2
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248	Testing of Low-cost Digital Microfluidic Biochips with Non-Regular Array Layouts. <i>Journal of Electronic Testing: Theory and Applications (JETTA)</i> , <b>2012</b> , 28, 243-255	0.7	2
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244	Dictionary-based error recovery in cyberphysical digital-microfluidic biochips <b>2012,</b>		24
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228	Long Path-Based Hybrid Method <b>2011</b> , 37-60		
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224	Pre-bond probing of TSVs in 3D stacked ICs <b>2011,</b>		71
223	A Metric to Target Small-Delay Defects in Industrial Circuits. <i>IEEE Design and Test of Computers</i> , <b>2011</b> , 28, 52-61		2
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215	Identification of Defective TSVs in Pre-Bond Testing of 3D ICs <b>2011</b> ,		21
214	Smart diagnosis: Efficient board-level diagnosis and repair using artificial neural networks <b>2011</b> ,		23
213	Testing and Design-for-Testability Techniques for 3D Integrated Circuits <b>2011</b> ,		9
212	A BIST scheme for testing and repair of multi-mode power switches <b>2011</b> ,		4
211	Test Scheduling for Multicore SoCs with Dynamic Voltage Scaling and Multiple Voltage Islands <b>2011</b> ,		7
210	Layout-Aware Solution Preparation for Biochemical Analysis on a Digital Microfluidic Biochip <b>2011</b> ,		31
209	Signature Analysis for Testing, Diagnosis, and Repair of Multi-mode Power Switches <b>2011</b> ,		3
208	Testing of Clock-Domain Crossing Faults in Multi-core System-on-Chip <b>2011</b> ,		6
207	Defect-Oriented LFSR Reseeding to Target Unmodeled Defects Using Stuck-at Test Sets. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2011</b> , 19, 2330-2335	2.6	9
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205	Digital microfluidic biochips <b>2011</b> ,		4
204	Digital microfluidic biochips <b>2011</b> ,		37
203	Ranking of Suspect Faulty Blocks Using Dataflow Analysis and Dempster-Shafer Theory for the Diagnosis of Board-Level Functional Failures <b>2011</b> ,		3

202	On Generation of 1-Detect TDF Pattern Set with Significantly Increased SDD Coverage <b>2011,</b>		1
201	Deterministic test for the reproduction and detection of board-level functional failures <b>2011,</b>		1
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196	Digital microfluidic biochips: A vision for functional diversity and more than moore <b>2010,</b>		42
195	Soft error-aware design optimization of low power and time-constrained embedded systems <b>2010,</b>		5
194	Digital Microfluidic Biochips: A Vision for Functional Diversity and More Than Moore <b>2010,</b>		5
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187	Circuit Topology-Based Test Pattern Generation for Small-Delay Defects <b>2010,</b>		14
186	MVP: Capture-power reduction with minimum-violations partitioning for delay testing <b>2010,</b>		10
185	Defect Coverage-Driven Window-Based Test Compression <b>2010,</b>		2

184	Power-Aware Test Data Compression and BIST <b>2010</b> , 147-173		1
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179	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2010</b> , 29, 1409-1421	2.5	6
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177	Mimicking of Functional State Space with Structural Tests for the Diagnosis of Board-Level Functional Failures <b>2010</b> ,		2
176	Digital Microfluidic Biochips: A Vision for Functional Diversity and More than Moore <b>2010</b> ,		9
175	Synchronization of Concurrently-Implemented Fluidic Operations in Pin-Constrained Digital Microfluidic Biochips <b>2010</b> ,		6
174	Test-architecture optimization for TSV-based 3D stacked ICs <b>2010</b> ,		40
173	Pin-count-aware online testing of digital microfluidic biochips <b>2010</b> ,		9
172	Testing of Low-Cost Digital Microfluidic Biochips with Non-regular Array Layouts <b>2010</b> ,		4
171	A Noise-Aware Hybrid Method for SDD Pattern Grading and Selection <b>2010</b> ,		4
170	Optimization and Selection of Diagnosis-Oriented Fault-Insertion Points for System Test <b>2010</b> ,		1
169	Toward fault-tolerant and reconfigurable digital microfluidic biochips <b>2010</b> ,		2
168	Board-level fault diagnosis using an error-flow dictionary <b>2010</b> ,		6
167	Pin-Constrained Designs of Digital Microfluidic Biochips for High-Throughput Bioassays <b>2010</b> ,		5

166	Cost-effective integration of three-dimensional (3D) ICs emphasizing testing cost analysis <b>2010</b> ,		36
165	Board-level fault diagnosis using Bayesian inference <b>2010</b> ,		24
164	Optimization methods for post-bond die-internal/external testing in 3D stacked ICs <b>2010</b> ,		39
163	RTL DFT Techniques to Enhance Defect Coverage for Functional Test Sequences. <i>Journal of Electronic Testing: Theory and Applications (JETTA)</i> , <b>2010</b> , 26, 151-164	0.7	2
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159	<b>2009</b> ,		4
158	Seed selection in LFSR-reseeding-based test compression for the detection of small-delay defects <b>2009</b> ,		5
157	Diverse Routing: Exploiting Social Behavior for Routing in Delay-Tolerant Networks <b>2009</b> ,		10
156	Generation of compact test sets with high defect coverage <b>2009</b> ,		9
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150	RTL DFT techniques to enhance defect coverage for functional test sequences <b>2009</b> ,		2
149	Design-for-Testability for Digital Microfluidic Biochips <b>2009</b> ,		10

148	Wafer-Level Defect Screening for Big-D/Small-A Mixed-Signal SoCs. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2009</b> , 17, 587-592	2.6	3
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146	Optimization of droplet routing for an n-plex bioassay on a digital microfluidic lab-on-chip <b>2009</b> ,		2
145	Power Management Using Test-Pattern Ordering for Wafer-Level Test During Burn-In. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2009</b> , 17, 1730-1741	2.6	3
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132	Fault diagnosis for lab-on-chip using digital microfluidic logic gates <b>2008</b> ,		1
131	Test-Architecture Optimization and Test Scheduling for SOCs with Core-Level Expansion of Compressed Test Patterns <b>2008</b> ,		12



130	SOC Test Optimization with Compression-Technique Selection <b>2008,</b>			1
129	Accelerated Functional Testing of Digital Microfluidic Biochips <b>2008,</b>			2
128	On-Line Testing of Lab-on-Chip Using Digital Microfluidic Compactors <b>2008,</b>			6
127	Accelerated Functional Testing of Digital Microfluidic Biochips <b>2008,</b>			7
126	Test-Access Solutions for Three-Dimensional SOCs <b>2008,</b>			1
125	Interconnect-Aware and Layout-Oriented Test-Pattern Selection for Small-Delay Defects <b>2008,</b>			33
124	Test-Pattern Ordering for Wafer-Level Test-During-Burn-In. <i>VLSI Test Symposium (VTS), Proceedings, IEEE, 2008,</i>			6
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115	Test Scheduling for Wafer-Level Test-During-Burn-In of Core-Based SoCs <b>2008,</b>			1
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110	A Selective Scan Slice Encoding Technique for Test Data Volume and Test Power Reduction. <i>Journal of Electronic Testing: Theory and Applications (JETTA)</i> , <b>2008</b> , 24, 353-364	0.7	10
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