

Sung Kyu Lim

List of Publications by Year in Descending Order

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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.

157 papers	1,901 citations	24 h-index	36 g-index
176 ext. papers	2,377 ext. citations	2.3 avg, IF	4.96 L-index

#	Paper	IF	Citations
157	Performance, Power, and Area of Standard Cells in Sub 3 nm Node Using Buried Power Rail. <i>IEEE Transactions on Electron Devices</i> , 2022 , 1-6	2.9	5
156	Design Automation and Test Solutions for Monolithic 3D ICs. <i>ACM Journal on Emerging Technologies in Computing Systems</i> , 2022 , 18, 1-49	1.7	0
155	Antiferroelectric negative capacitance from a structural phase transition in zirconia.. <i>Nature Communications</i> , 2022 , 13, 1228	17.4	4
154	A Compute-in-Memory Hardware Accelerator Design with Back-end-of-line (BEOL) Transistor based Reconfigurable Interconnect. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2022 , 1-1	5.2	1
153	Clock Delivery Network Design and Analysis for Interposer-Based 2.5-D Heterogeneous Systems. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2021 , 29, 605-616	2.6	
152	An Effective Block Pin Assignment Approach for Block-Level Monolithic 3-D ICs. <i>IEEE Journal on Exploratory Solid-State Computational Devices and Circuits</i> , 2021 , 7, 26-34	2.4	
151	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2021 , 63, 246-258	2	3
150	Design-aware Partitioning-based 3D IC Design Flow with 2D Commercial Tools. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2021 , 1-1	2.5	
149	Chiplet/Interposer Co-Design for Power Delivery Network Optimization in Heterogeneous 2.5D ICs. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2021 , 1-1	1.7	1
148	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> , 2021 , 1-14	2.6	
147	Heterogeneous Mixed-Signal Monolithic 3-D In-Memory Computing Using Resistive RAM. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2021 , 29, 386-396	2.6	8
146	Monolithic 3D Inverter with Interface Charge: Parameter Extraction and Circuit Simulation. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 12151	2.6	
145	Heterogeneous 3D Integration for a RISC-V System With STT-MRAM. <i>IEEE Computer Architecture Letters</i> , 2020 , 19, 51-54	1.8	4
144	Compact-2D: A Physical Design Methodology to Build Two-Tier Gate-Level 3-D ICs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2020 , 39, 1151-1164	2.5	5
143	Modeling and Benchmarking Back End Of The Line Technologies on Circuit Designs at Advanced Nodes 2020 ,		2
142	Optimal Ferroelectric Parameters for Negative Capacitance Field-Effect Transistors Based on Full-Chip ImplementationsPart II: Scaling of the Supply Voltage. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 371-376	2.9	2
141	Cross-Domain Optimization of Ferroelectric Parameters for Negative Capacitance TransistorsPart I: Constant Supply Voltage. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 365-370	2.9	4

140	A COTS-Based Novel 3-D DRAM Memory Cube Architecture for Space Applications. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2020 , 28, 2055-2068	2.6	0
139	Architecture, Chip, and Package Codesign Flow for Interposer-Based 2.5-D Chiplet Integration Enabling Heterogeneous IP Reuse. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2020 , 28, 2424-2437	2.6	7
138	Design Flow for Active Interposer-Based 2.5-D ICs and Study of RISC-V Architecture With Secure NoC. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2020 , 10, 2047-2060	1.7	2
137	Electrical Coupling and Simulation of Monolithic 3D Logic Circuits and Static Random Access Memory. <i>Micromachines</i> , 2019 , 10,	3.3	1
136	RTL-to-GDS Tool Flow and Design-for-Test Solutions for Monolithic 3D ICs 2019 ,		4
135	. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2019 , 27, 888-898	2.6	3
134	Entropy Production-Based Full-Chip Fatigue Analysis: From Theory to Mobile Applications. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2019 , 38, 84-95	2.5	7
133	Parameter Extraction and Power/Performance Analysis of Monolithic 3-D Inverter (M3INV). <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 1006-1011	2.9	3
132	Interdie Coupling Extraction and Physical Design Optimization for Face-to-Face 3-D ICs. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 634-644	2.6	1
131	In-growth test for monolithic 3D integrated SRAM 2018 ,		1
130	Shrunk-2-D: A Physical Design Methodology to Build Commercial-Quality Monolithic 3-D ICs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2017 , 36, 1716-1724	2.5	25
129	Tier Degradation of Monolithic 3-D ICs: A Power Performance Study at Different Technology Nodes. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2017 , 36, 1265-1273	2.5	4
128	TSV-Based 3-D ICs: Design Methods and Tools. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2017 , 36, 1593-1619	2.5	27
127	Parasitic Extraction for Heterogeneous Face-to-Face Bonded 3-D ICs. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2017 , 7, 912-924	1.7	5
126	Residual Stress and Pop-Out Simulation for TSVs and Contacts in Via-Middle Process. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2017 , 30, 143-154	2.6	3
125	Impact and Design Guideline of Monolithic 3-D IC at the 7-nm Technology Node. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2017 , 25, 2118-2129	2.6	5
124	The Impact of 3D Stacking and Technology Scaling on the Power and Area of Stereo Matching Processors. <i>Sensors</i> , 2017 , 17,	3.8	1
123	Full Chip Impact Study of Power Delivery Network Designs in Gate-Level Monolithic 3-D ICs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2017 , 36, 992-1003	2.5	6

122	Chain-Based Approach for Fast Through-Silicon-Via Coupling Delay Estimation. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2017 , 25, 1178-1182	2.6	1
121	Fast bidirectional shortest path on GPU. <i>IEICE Electronics Express</i> , 2016 , 13, 20160036-20160036	0.5	1
120	. <i>IEEE Transactions on Electron Devices</i> , 2016 , 1-4	2.9	10
119	Probe-Pad Placement for Prebond Test of 3-D ICs. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2016 , 6, 637-644	1.7	5
118	Adaptive Regression-Based Thermal Modeling and Optimization for Monolithic 3-D ICs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2016 , 35, 1707-1720	2.5	11
117	Full-Chip Signal Integrity Analysis and Optimization of 3-D ICs. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2016 , 24, 1636-1648	2.6	14
116	Design and Analysis of a Stochastic Flash Analog-to-Digital Converter in 3D IC technology for integration with ultrasound transducer array. <i>Microelectronics Journal</i> , 2016 , 48, 39-49	1.8	5
115	Machine Learning Based Variation Modeling and Optimization for 3D ICs. <i>Journal of Information and Communication Convergence Engineering</i> , 2016 , 14, 258-267		1
114	Evaluating Chip-Level Impact of Cu/Low- κ Performance Degradation on Circuit Performance at Future Technology Nodes. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 940-946	2.9	8
113	Design and Analysis of 3D-MAPS (3D Massively Parallel Processor with Stacked Memory). <i>IEEE Transactions on Computers</i> , 2015 , 64, 112-125	2.5	41
112	Ultralow Power Circuit Design With Subthreshold/Near-Threshold 3-D IC Technologies. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2015 , 5, 980-990	1.7	5
111	Power, performance, and cost comparisons of monolithic 3D ICs and TSV-based 3D ICs 2015 ,		11
110	Fine-Grained 3-D IC Partitioning Study With a Multicore Processor. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2015 , 5, 1393-1401	1.7	4
109	Stacking integration methodologies in 3D IC for 3D ultrasound image processing application: A stochastic flash ADC design case study 2015 ,		2
108	On diagnosable and tunable 3D clock network design for lifetime reliability enhancement 2015 ,		1
107	Multi-TSV and E-Field Sharing Aware Full-chip Extraction and Mitigation of TSV-to-Wire Coupling. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2015 , 34, 1964-1976	2.5	5
106	Placement-Driven Partitioning for Congestion Mitigation in Monolithic 3D IC Designs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2015 , 34, 540-553	2.5	27
105	Impact of size effects in local interconnects for future technology nodes: A study based on full-chip layouts 2014 ,		12

104	Backend Dielectric Reliability Full Chip Simulator. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2014 , 22, 1750-1762	2.6	6
103	Design challenges and solutions for ultra-high-density monolithic 3D ICs 2014 ,		18
102	Electromigration Study for Multiscale Power/Ground Vias in TSV-Based 3-D ICs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2014 , 33, 1873-1885	2.5	11
101	Silicon Effect-Aware Full-Chip Extraction and Mitigation of TSV-to-TSV Coupling. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2014 , 33, 1900-1913	2.5	27
100	TSV-Aware Interconnect Distribution Models for Prediction of Delay and Power Consumption of 3-D Stacked ICs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2014 , 33, 1384-1395	2.5	21
99	Analysis and Modeling of DC Current Crowding for TSV-Based 3-D Connections and Power Integrity. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2014 , 4, 123-133	1.7	9
98	TSV stress-aware full-chip mechanical reliability analysis and optimization for 3D IC. <i>Communications of the ACM</i> , 2014 , 57, 107-115	2.5	46
97	Exploiting Die-to-Die Thermal Coupling in 3-D IC Placement. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2014 , 22, 2145-2155	2.6	13
96	Simulation of system backend dielectric reliability. <i>Microelectronics Journal</i> , 2014 , 45, 1327-1334	1.8	3
95	Impact of Mechanical Stress on the Full Chip Timing for Through-Silicon-Via-based 3-D ICs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2013 , 32, 905-917	2.5	10
94	Design and analysis of 3D IC-based low power stereo matching processors 2013 ,		2
93	Reliable 3-D Clock-Tree Synthesis Considering Nonlinear Capacitive TSV Model With ElectricalThermalMechanical Coupling. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2013 , 32, 1734-1747	2.5	28
92	Study of Through-Silicon-Via Impact on the 3-D Stacked IC Layout. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2013 , 21, 862-874	2.6	44
91	Tier Adaptive Body Biasing: A Post-Silicon Tuning Method to Minimize Clock Skew Variations in 3-D ICs. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2013 , 3, 1720-1730	1.7	5
90	Ultrahigh Density Logic Designs Using Monolithic 3-D Integration. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2013 , 32, 1892-1905	2.5	22
89	High-density integration of functional modules using monolithic 3D-IC technology 2013 ,		37
88	Test-TSV estimation during 3D-IC partitioning 2013 ,		1
87	3D IC-package-board co-analysis using 3D EM simulation for mobile applications 2013 ,		2

86	Block-level designs of die-to-wafer bonded 3D ICs and their design quality tradeoffs 2013 ,		4
85	Chip/Package Mechanical Stress Impact on 3-D IC Reliability and Mobility Variations. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2013 , 32, 1694-1707	2.5	10
84	TSV Stress-Aware Full-Chip Mechanical Reliability Analysis and Optimization for 3-D IC. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2012 , 31, 1194-1207	2.5	30
83	Variation-Aware Clock Network Design Methodology for Ultralow Voltage (ULV) Circuits. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2012 , 31, 1222-1234	2.5	6
82	Design Quality Trade-Off Studies for 3-D ICs Built With Sub-Micron TSVs and Future Devices. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2012 , 2, 240-248	5.2	16
81	TSV Stress-Aware ATPG for 3D Stacked ICs 2012 ,		7
80	Scan test of die logic in 3D ICs using TSV probing 2012 ,		7
79	Slew-aware buffer insertion for through-silicon-via-based 3D ICs 2012 ,		13
78	Ultra-high density 3D SRAM cell designs for monolithic 3D integration 2012 ,		26
77	Fast delay estimation with buffer insertion for through-silicon-via-based 3D interconnects 2012 ,		4
76	Transition delay fault testing of 3D ICs with IR-drop study 2012 ,		4
75	Block-level 3D IC design with through-silicon-via planning 2012 ,		20
74	Distributed TSV Topology for 3-D Power-Supply Networks. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2012 , 20, 2066-2079	2.6	21
73	Backend dielectric reliability simulator for microprocessor system. <i>Microelectronics Reliability</i> , 2012 , 52, 1953-1959	1.2	3
72	Design quality tradeoff studies for 3D ICs built with nano-scale TSVs and devices 2012 ,		5
71	3D-MAPS: 3D Massively parallel processor with stacked memory 2012 ,		84
70	Chip/package co-analysis of thermo-mechanical stress and reliability in TSV-based 3D ICs 2012 ,		9
69	Analysis of DC current crowding in through-silicon-vias and its impact on power integrity in 3D ICs 2012 ,		9

68	Design for manufacturability and reliability for TSV-based 3D ICs 2012 ,		19
67	Backend dielectric chip reliability simulator for complex interconnect geometries 2012 ,		8
66	Pre-Bond and Post-Bond Test and Signal Recovery Structure to Characterize and Repair TSV Defect Induced Signal Degradation in 3-D System. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2011 , 1, 1718-1727	1.7	42
65	Analysis of TSV-to-TSV coupling with high-impedance termination in 3D ICs 2011 ,		20
64	Signal integrity analysis and optimization for 3D ICs 2011 ,		9
63	Impact of through-silicon-via scaling on the wirelength distribution of current and future 3D ICs 2011 ,		4
62	Low-Power Clock Tree Design for Pre-Bond Testing of 3-D Stacked ICs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2011 , 30, 732-745	2.5	25
61	Analysis and Design of Energy and Slew Aware Subthreshold Clock Systems. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2011 , 30, 1349-1358	2.5	8
60	Impact of irregular geometries on low-k dielectric breakdown. <i>Microelectronics Reliability</i> , 2011 , 51, 1582-1586	1.5	6
59	Co-Optimization and Analysis of Signal, Power, and Thermal Interconnects in 3-D ICs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2011 , 30, 1635-1648	2.5	17
58	TSV density-driven global placement for 3D stacked ICs 2011 ,		4
57	Impact of nano-scale through-silicon vias on the quality of today and future 3D IC designs 2011 ,		12
56	Fast and Accurate Analytical Modeling of Through-Silicon-Via Capacitive Coupling. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2011 , 1, 168-180	1.7	54
55	A study of TSV variation impact on power supply noise 2011 ,		6
54	Designing 3D test wrappers for pre-bond and post-bond test of 3D embedded cores 2011 ,		10
53	Mechanism of Data Retention Improvement by High Temperature Annealing of Al ₂ O ₃ Blocking Layer in Flash Memory Device. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 04DD07	1.4	3
52	Reliability and performance-aware 3D SRAM design 2011 ,		1
51	Backend low-k TDDDB chip reliability simulator 2011 ,		16

50	Power-supply-network design in 3D integrated systems 2011 ,	9
49	A fine-grained co-simulation methodology for IR-drop noise in silicon interposer and TSV-based 3D IC 2011 ,	3
48	Scan chain and power delivery network synthesis for pre-bond test of 3D ICs 2011 ,	8
47	Mechanism of Data Retention Improvement by High Temperature Annealing of Al ₂ O ₃ Blocking Layer in Flash Memory Device. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 04DD07	1.4 3
46	Through-silicon-via management during 3D physical design: When to add and how many? 2010 ,	35
45	A study of signal integrity issues in through-silicon-via-based 3D ICs 2010 ,	6
44	Design method and test structure to characterize and repair TSV defect induced signal degradation in 3D system 2010 ,	47
43	TSV stress aware timing analysis with applications to 3D-IC layout optimization 2010 ,	72
42	Improvement of memory performance by high temperature annealing of the Al ₂ O ₃ blocking layer in a charge-trap type flash memory device. <i>Applied Physics Letters</i> , 2010 , 96, 222902	3-4 25
41	Stress-driven 3D-IC placement with TSV keep-out zone and regularity study 2010 ,	47
40	A study of IR-drop noise issues in 3D ICs with through-silicon-vias 2010 ,	22
39	Buffered clock tree sizing for skew minimization under power and thermal budgets 2010 ,	6
38	Timing analysis and optimization for 3D stacked multi-core microprocessors 2010 ,	9
37	Methodology to determine the impact of linewidth variation on chip scale copper/low-k backend dielectric breakdown. <i>Microelectronics Reliability</i> , 2010 , 50, 1341-1346	1.2 17
36	Thermal optimization in multi-granularity multi-core floorplanning 2009 ,	6
35	A study of stacking limit and scaling in 3D ICs: an interconnect perspective 2009 ,	16
34	A study of Through-Silicon-Via impact on the 3D stacked IC layout 2009 ,	106
33	Co-design of signal, power, and thermal distribution networks for 3D ICs 2009 ,	2

32	Routing optimization of multi-modal interconnects in 3D ICs 2009 ,		10
31	Co-design of reliable signal and power interconnects in 3D stacked ICs 2009 ,		7
30	Global bus route optimization with application to microarchitectural design exploration 2008 ,		3
29	Thermal-aware steiner routing for 3D stacked ICs. <i>IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers</i> , 2007 ,		6
28	Whitespace redistribution for thermal via insertion in 3D stacked ICs 2007 ,		11
27	Noise-Direct: A Technique for Power Supply Noise Aware Floorplanning Using Microarchitecture Profiling 2007 ,		12
26	Multiobjective Microarchitectural Floorplanning for 2-D and 3-D ICs. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2007 , 26, 38-52	2.5	67
25	Decoupling-Capacitor Planning and Sizing for Noise and Leakage Reduction. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2007 , 26, 2023-2034	2.5	4
24	Rapid Prototyping of Large-scale Analog Circuits With Field Programmable Analog Array 2007 ,		9
23	Optical Routing for 3-D System-On-Package. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2007 , 30, 805-812		7
22	Optical Routing for 3D System-On-Package 2006 ,		4
21	Microarchitectural Floorplanning Under Performance and Thermal Tradeoff 2006 ,		8
20	3D Floorplanning with Thermal Vias 2006 ,		20
19	Multi-objective module placement for 3-D system-on-package. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2006 , 14, 553-557	2.6	6
18	A Floorplan-Aware Dynamic Inductive Noise Controller for Reliable Processor Design. <i>Microarchitecture (MICRO), Proceedings of the Annual International Symposium on</i> , 2006 ,		9
17	Placement for large-scale floating-gate field-programable analog arrays. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2006 , 14, 906-910	2.6	24
16	Traffic: a novel geometric algorithm for fast wire-optimized floorplanning. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2006 , 25, 1075-1086	2.5	3
15	Profile-guided microarchitectural floor planning for deep submicron processor design. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2006 , 25, 1289-1300	2.5	3

14	Profile-Driven Instruction Mapping for Dataflow Architectures. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2006 , 25, 3017-3025	2.5	
13	Edge separability-based circuit clustering with application to multilevel circuit partitioning. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2004 , 23, 346-357	2.5	50
12	Retiming-based timing analysis with an application to mincut-based global placement. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2004 , 23, 1684-1692	2.5	4
11	Effective thermal via and decoupling capacitor insertion for 3D system-on-package		8
10	Hierarchical placement for large-scale FPAA		1
9	Wire congestion and thermal aware 3D global placement		9
8	Statistical Bellman-Ford algorithm with an application to retiming		1
7	A global router for system-on-package targeting layer and crosstalk minimization		3
6	Module placement for power supply noise and wire congestion avoidance in 3D packaging		2
5	Net and pin distribution for 3D package global routing		5
4	Reliability-aware floorplanning for 3D circuits		7
3	Thermal and Crosstalk-Aware Physical Design for 3D System-On-Package		5
2	Placement for configurable dataflow architecture		1
1	Wire-driven microarchitectural design space exploration		2