# Stefano Di Carlo

## List of Publications by Year
## in descending order

| | | | |
|---|---|---|---|
| 169 papers | 1,946 citations | 567281 15 h-index | 414414 32 g-index |
| 173 all docs | 173 docs citations | 173 times ranked | 1575 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | An expanded evaluation of protein function prediction methods shows an improvement in accuracy. Genome Biology, 2016, 17, 184. | 8.8 | 308 |
| 2 | The CAFA challenge reports improved protein function prediction and new functional annotations for hundreds of genes through experimental screens. Genome Biology, 2019, 20, 244. | 8.8 | 261 |
| 3 | Multi-level and hybrid modelling approaches for systems biology. Computational and Structural Biotechnology Journal, 2017, 15, 396-402. | 4.1 | 51 |
| 4 | Increasing pattern recognition accuracy for chemical sensing by evolutionary based drift compensation. Pattern Recognition Letters, 2011, 32, 1594-1603. | 4.2 | 50 |
| 5 | Software-Based Self-Test of Set-Associative Cache Memories. IEEE Transactions on Computers, 2011, 60, 1030-1044. | 3.4 | 42 |
| 6 | A watchdog processor to detect data and control flow errors. , 0, , . | | 37 |
| 7 | Statistical Reliability Estimation of Microprocessor-Based Systems. IEEE Transactions on Computers, 2012, 61, 1521-1534. | 3.4 | 36 |
| 8 | Control-flow checking via regular expressions. , 0, , . | | 31 |
| 9 | A software-based self test of CUDA Fermi GPUs. , 2013, , . | | 30 |
| 10 | Cost of Sickness Absenteeism during Seasonal Influenza Outbreaks of Medium Intensity among Health Care Workers. International Journal of Environmental Research and Public Health, 2019, 16, 747. | 2.6 | 29 |
| 11 | SyRA: Early System Reliability Analysis for Cross-Layer Soft Errors Resilience in Memory Arrays of Microprocessor Systems. IEEE Transactions on Computers, 2019, 68, 765-783. | 3.4 | 27 |
| 12 | An effective distributed BIST architecture for RAMs. , 0, , . | | 23 |
| 13 | Specification and design of a new memory fault simulator. , 0, , . | | 23 |
| 14 | A combined approach for genome wide protein function annotation/prediction. Proteome Science, 2013, 11, S1. | 1.7 | 22 |
| 15 | Using Boolean networks to model post-transcriptional regulation in gene regulatory networks. Journal of Computational Science, 2014, 5, 332-344. | 2.9 | 22 |
| 16 | HD/sup 2/BIST: a hierarchical framework for BIST scheduling, data patterns delivering and diagnosis in SoCs. , 0, , . | | 21 |
| 17 | Automatic March Tests Generation for Static and Dynamic Faults in SRAMs. , 0, , . | | 21 |
| 18 | A programmable BIST architecture for clusters of multiple-port SRAMs. , 0, , . | | 20 |

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|---|---------|-----|-----------|
| 19 | A Functional Verification based Fault Injection Environment. , 2007, , . | | 20 |
| 20 | SSDExplorer: A Virtual Platform for Performance/Reliability-Oriented Fine-Grained Design Space Exploration of Solid State Drives. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2015, 34, 1627-1638. | 2.7 | 20 |
| 21 | Cross-layer system reliability assessment framework for hardware faults. , 2016, , . | | 20 |
| 22 | RT Level vs. Microarchitecture-Level Reliability Assessment: Case Study on ARM(R) Cortex(R)-A9 CPU. , 2017, , . | | 20 |
| 23 | ReDO: Cross-Layer Multi-Objective Design-Exploration Framework for Efficient Soft Error Resilient Systems. IEEE Transactions on Computers, 2018, 67, 1462-1477. | 3.4 | 20 |
| 24 | Data criticality estimation in software applications. , 0, , . | | 19 |
| 25 | ATPG for Dynamic Burn-In Test in Full-Scan Circuits. Proceedings of the Asian Test Symposium, 2006, , . | 0.0 | 18 |
| 26 | FishAPP: A mobile App to detect fish falsification through image processing and machine learning techniques. , 2016, , . | | 18 |
| 27 | Static analysis of SEU effects on software applications. , 0, , . | | 17 |
| 28 | Programmable built-in self-testing of embedded RAM clusters in system-on-chip architectures. , 2003, 41, 90-97. | | 17 |
| 29 | March Test Generation Revealed. IEEE Transactions on Computers, 2008, 57, 1704-1713. | 3.4 | 17 |
| 30 | A cross-layer approach for new reliability-performance trade-offs in MLC NAND flash memories. , 2012, , . | | 17 |
| 31 | A novel methodology to increase fault tolerance in autonomous FPGA-based systems. , 2014, , . | | 17 |
| 32 | An area-efficient 2-D convolution implementation on FPGA for space applications. , 2011, , . | | 16 |
| 33 | SIFI: AMD southern islands GPU microarchitectural level fault injector. , 2017, , . | | 16 |
| 34 | March AB, a state-of-the-art march test for realistic static linked faults and dynamic faults in SRAMs. IET Computers and Digital Techniques, 2007, 1, 237. | 1.2 | 15 |
| 35 | ReNE: A Cytoscape Plugin for Regulatory Network Enhancement. PLoS ONE, 2014, 9, e115585. | 2.5 | 15 |
| 36 | IEEE Standard 1500 Compliance Verification for Embedded Cores. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2008, 16, 397-407. | 3.1 | 14 |

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|---|---------|----|-----------|
| 37 | Fault mitigation strategies for CUDA GPUs. , 2013, , . | | 14 |
| 38 | Cross-layer reliability evaluation, moving from the hardware architecture to the system level: A CLERECO EU project overview. Microprocessors and Microsystems, 2015, 39, 1204-1214. | 2.8 | 14 |
| 39 | CyTRANSFINDER: a Cytoscape 3.3 plugin for three-component (TF, gene, miRNA) signal transduction pathway construction. BMC Bioinformatics, 2016, 17, 157. | 2.6 | 14 |
| 40 | Online self-repair of FIR filters. IEEE Design and Test of Computers, 2003, 20, 50-57. | 1.0 | 13 |
| 41 | FPGA-Based Remote-Code Integrity Verification of Programs in Distributed Embedded Systems. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 187-200. | 2.9 | 13 |
| 42 | Multi-faceted microarchitecture level reliability characterization for NVIDIA and AMD GPUs. , 2018, , . | | 13 |
| 43 | A cDNA Microarray Gene Expression Data Classifier for Clinical Diagnostics Based on Graph Theory. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2011, 8, 577-591. | 3.0 | 12 |
| 44 | Integration of STT-MRAM model into CACTI simulator. , 2014, , . | | 12 |
| 45 | SATTA. ACM Transactions on Reconfigurable Technology and Systems, 2015, 8, 1-22. | 2.5 | 12 |
| 46 | Computing of Low Shear Stress-Driven Endothelial Gene Network Involved in Early Stages of Atherosclerotic Process. BioMed Research International, 2018, 2018, 1-12. | 1.9 | 12 |
| 47 | Design and optimization of adaptable BCH codecs for NAND flash memories. Microprocessors and Microsystems, 2013, 37, 407-419. | 2.8 | 11 |
| 48 | A systematic analysis of a mi-RNA inter-pathway regulatory motif. Journal of Clinical Bioinformatics, 2013, 3, 20. | 1.2 | 11 |
| 49 | Applying March Tests to K-Way Set-Associative Cache Memories. , 2008, , . | | 10 |
| 50 | "Plug &#x00026; Test" at System Level via Testable TLM Primitives. , 2008, , . | | 10 |
| 51 | A FPGA-Based Reconfigurable Software Architecture for Highly Dependable Systems. , 2009, , . | | 10 |
| 52 | Performance and Reliability Analysis of Cross-Layer Optimizations of NAND Flash Controllers. Transactions on Embedded Computing Systems, 2015, 14, 1-24. | 2.9 | 10 |
| 53 | Power-aware voltage tuning for STT-MRAM reliability. , 2015, , . | | 10 |
| 54 | GPU acceleration for statistical gene classification. , 2010, , . | | 9 |

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|---|---------|-----|-----------|
| 55 | An extended gene protein/products boolean network model including post-transcriptional regulation. Theoretical Biology and Medical Modelling, 2014, 11, S5. | 2.1 | 9 |
| 56 | SA-FEMIP: A Self-Adaptive Features Extractor and Matcher IP-Core Based on Partially Reconfigurable FPGAs for Space Applications. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2015, 23, 2198-2208. | 3.1 | 9 |
| 57 | An On-Line Testing Technique for the Scheduler Memory of a GPGPU. IEEE Access, 2020, 8, 16893-16912. | 4.2 | 9 |
| 58 | Models in Memory Testing. Frontiers in Electronic Testing, 2010, , 157-185. | 0.3 | 9 |
| 59 | Validation of a software dependability tool via fault injection experiments. , 0, , . | | 8 |
| 60 | A hierarchical infrastructure for SoC test management. IEEE Design and Test of Computers, 2003, 20, 32-39. | 1.0 | 8 |
| 61 | Influence of Parasitic Capacitance Variations on 65 nm and 32 nm Predictive Technology Model SRAM Core-Cells. , 2008, , . | | 8 |
| 62 | Efficient multi-level fault simulation of HW/SW systems for structural faults. Science China Information Sciences, 2011, 54, 1784-1796. | 4.3 | 8 |
| 63 | Building gene expression profile classifiers with a simple and efficient rejection option in R. BMC Bioinformatics, 2011, 12, S3. | 2.6 | 8 |
| 64 | FLARES. Transactions on Architecture and Code Optimization, 2014, 11, 1-25. | 2.0 | 8 |
| 65 | Modeling antibiotic resistance in the microbiota using multi-level Petri Nets. BMC Systems Biology, 2018, 12, 108. | 3.0 | 8 |
| 66 | Performance Monitor Counters: Interplay Between Safety and Security in Complex Cyber-Physical Systems. IEEE Transactions on Device and Materials Reliability, 2019, 19, 73-83. | 2.0 | 8 |
| 67 | An optimal algorithm for the automatic generation of March tests. , 0, , . | | 7 |
| 68 | Single-Event Upset Analysis and Protection in High Speed Circuits. , 0, , . | | 7 |
| 69 | Automatic March Tests Generations for Static Linked Faults in SRAMs. , 2006, , . | | 7 |
| 70 | Increasing the robustness of CUDA Fermi GPU-based systems. , 2013, , . | | 7 |
| 71 | AIDI: An adaptive image denoising FPGA-based IP-core for real-time applications. , 2013, , . | | 7 |
| 72 | A portable open-source controller for safe Dynamic Partial Reconfiguration on Xilinx FPGAs. , 2015, , . | | 7 |

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| 73 | Meta-Analysis of cortical inhibitory interneurons markers landscape and their performances in scRNA-seq studies. , 2021, , . | | 7 |
| 74 | On-Line Instruction-Checking in Pipelined Microprocessors. , 2008, , . | | 6 |
| 75 | Efficient Simulation of Structural Faults for the Reliability Evaluation at System-Level. , 2010, , . | | 6 |
| 76 | FunMod: A Cytoscape Plugin for Identifying Functional Modules in Undirected Protein–Protein Networks. Genomics, Proteomics and Bioinformatics, 2014, 12, 178-186. | 6.9 | 6 |
| 77 | A Functional Approach for Testing the Reorder Buffer Memory. Journal of Electronic Testing: Theory and Applications (JETTA), 2014, 30, 469-481. | 1.2 | 6 |
| 78 | Using multi-level Petri nets models to simulate microbiota resistance to antibiotics. , 2017, , . | | 6 |
| 79 | Using Nets-Within-Nets for Modeling Differentiating Cells in the Epigenetic Landscape. Lecture Notes in Computer Science, 2016, , 315-321. | 1.3 | 6 |
| 80 | Identification of miRNAs Potentially Involved in Bronchiolitis Obliterans Syndrome: A Computational Study. PLoS ONE, 2016, 11, e0161771. | 2.5 | 6 |
| 81 | A graph-based representation of Gene Expression profiles in DNA microarrays. , 2008, , . | | 5 |
| 82 | A Low-Cost FPGA-Based Test and Diagnosis Architecture for SRAMs. , 2009, , . | | 5 |
| 83 | Using gnome wide data for protein function prediction by exploiting gene ontology relationships. , 2012, , . | | 5 |
| 84 | Trading-off reliability and performance in FPGA-based reconfigurable heterogeneous systems. , 2018, , . | | 5 |
| 85 | Alternatives to Fault Injections for Early Safety/Security Evaluations. , 2019, , . | | 5 |
| 86 | On the in-field test of the GPGPU scheduler memory. , 2019, , . | | 5 |
| 87 | 'One DB to rule them all'—the RING: a Regulatory INteraction Graph combining TFs, genes/proteins, SNPs, diseases and drugs. Database: the Journal of Biological Databases and Curation, 2019, 2019, . | 3.0 | 5 |
| 88 | Nets-within-nets for modeling emergent patterns in ontogenetic processes. Computational and Structural Biotechnology Journal, 2021, 19, 5701-5721. | 4.1 | 5 |
| 89 | Automatic March tests generation for multi-port SRAMs. , 2006, , . | | 4 |
| 90 | Memory Fault Simulator for Static-Linked Faults. Proceedings of the Asian Test Symposium, 2006, , . | 0.0 | 4 |

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| 91 | Test exploration and validation using transaction level models. , 2009, , . | | 4 |
| 92 | FLARE: A design environment for FLASH-based space applications. , 2009, , . | | 4 |
| 93 | FEMIP: A high performance FPGA-based features extractor &amp;amp; matcher for space applications. , 2013, , . | | 4 |
| 94 | On the on-line functional test of the Reorder Buffer memory in superscalar processors. , 2013, , . | | 4 |
| 95 | SSDExplorer: A virtual platform for fine-grained design space exploration of Solid State Drives. , 2014, , . | | 4 |
| 96 | Cross-layer early reliability evaluation: Challenges and promises. , 2014, , . | | 4 |
| 97 | On Enhancing Fault Injection's Capabilities and Performances for Safety Critical Systems. , 2014, , . | | 4 |
| 98 | In-silico cardiac aging regulatory model including microRNA post-transcriptional regulation. Methods, 2017, 124, 57-68. | 3.8 | 4 |
| 99 | Microarchitecture level reliability comparison of modern GPU designs: First findings. , 2017, , . | | 4 |
| 100 | Modeling biological complexity using Biology System Description Language (BiSDL). , 2018, , . | | 4 |
| 101 | Securing bitstream integrity, confidentiality and authenticity in reconfigurable mobile heterogeneous systems. , 2018, , . | | 4 |
| 102 | Exploring Deep Learning for In-Field Fault Detection in Microprocessors. , 2021, , . | | 4 |
| 103 | Exploiting Evolution for an Adaptive Drift-Robust Classifier in Chemical Sensing. Lecture Notes in Computer Science, 2010, , 412-421. | 1.3 | 4 |
| 104 | Software-Based Self-Test for Reliable Applications in Railway Systems. , 2012, , 198-220. | | 4 |
| 105 | GAGAM: A Genomic Annotation-Based Enrichment ofÂscATAC-seq Data forÂGene Activity Matrix. Lecture Notes in Computer Science, 2022, , 18-32. | 1.3 | 4 |
| 106 | FAUST: fault-injection script-based tool. , 0, , . | | 3 |
| 107 | Differential gene expression graphs: A data structure for classification in DNA microarrays. , 2008, , . | | 3 |
| 108 | Automating defects simulation and fault modeling for SRAMs. , 2008, , . | | 3 |

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| 109 | MarciaTesta: An Automatic Generator of Test Programs for Microprocessors' Data Caches. , 2011, , . | | 3 |
| 110 | Computational Tools for Applying Multi-level Models to Synthetic Biology. , 2018, , 95-112. | | 3 |
| 111 | miRNAs Potentially Involved in Post Lung Transplant-Obliterative Bronchiolitis: The Role of miR-21-5p. Cells, 2021, 10, 688. | 4.1 | 3 |
| 112 | A Methodology forÂCo-simulation-Based Optimization ofÂBiofabrication Protocols. Lecture Notes in Computer Science, 2022, , 179-192. | 1.3 | 3 |
| 113 | SEU effect analysis in a open-source router via a distributed fault injection environment. , 0, , . | | 2 |
| 114 | A 22n March Test for Realistic Static Linked Faults in SRAMs. , 0, , . | | 2 |
| 115 | Analysis of System-Failure Rate Caused by Soft-Errors using a UML-Based Systematic Methodology in an SoC. , 2007, | | 2 |
| 116 | &lt;/title&gt; &lt;/titles&gt; &lt;publication_date&gt; &lt;month&gt;05&lt;/month&gt; &lt;year&gt;2009&lt;/year&gt; &lt;/publication_date&gt; &lt;pages&gt; &lt;first_page&gt;3&lt;/first_page&gt; &lt;last_page&gt;3&lt;/last_page&gt; &lt;/pages&gt; &lt;publisher_item&gt; &lt;item_number item_number_type='sequence-number'&gt;5167501&lt;/item_number&gt; &lt;/publisher_item&gt; &lt;doi_data&gt; &lt;doi&gt;10.1109/MDT.2009.45&lt;/doi&gt; &lt;resource&gt;http://ieeexplore.ieee.org/lp | 1.0 | 2 |
| 117 | Defective Behaviour of an 8T SRAM Cell with Open Defects. , 2010, , . | | 2 |
| 118 | A unifying formalism to support automated synthesis of SBSTs for embedded caches. , 2011, , . | | 2 |
| 119 | Reducing the Complexity of Complex Gene Coexpression Networks by Coupling Multiweighted Labeling with Topological Analysis. BioMed Research International, 2013, 2013, 1-9. | 1.9 | 2 |
| 120 | A cloud-based approach for Gene Regulatory Networks dynamics simulations. , 2015, , . | | 2 |
| 121 | Bayesian network early reliability evaluation analysis for both permanent and transient faults. , 2015, , . | | 2 |
| 122 | RIIF-2: Toward the next generation reliability information interchange format. , 2016, , . | | 2 |
| 123 | SIERRAâ€"Simulation environment for memory redundancy algorithms. Simulation Modelling Practice and Theory, 2016, 69, 14-30. | 3.8 | 2 |
| 124 | Memory read faults: taxonomy and automatic test generation. , 0, , . | | 1 |
| 125 | Automated synthesis of SEU tolerant architectures from OO descriptions. , 0, , . | | 1 |
| 126 | Software dependability techniques validated via fault injection experiments. , 0, , . | | 1 |

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| 127 | A Unique March Test Algorithm for the Wide Spread of Realistic Memory Faults in SRAMs. , 0, , . | | 1 |
| 128 | Automating the IEEE std. 1500 compliance verification for embedded cores. , 2007, , . | | 1 |
| 129 | System Level Testing via TLM 2.0 Debug Transport Interface. , 2009, , . | | 1 |
| 130 | NBTI mitigation by Dynamic Partial Reconfiguration. , 2012, , . | | 1 |
| 131 | Ef$^3$S: An evaluation framework for flash-based systems. , 2013, , . | | 1 |
| 132 | ZipStream: Improving dependability in dynamic partial reconfiguration. , 2013, , . | | 1 |
| 133 | Cross-Layer Early Reliability Evaluation for the Computing cOntinuum. , 2014, , . | | 1 |
| 134 | A novel algorithm and hardware architecture for fast video-based shape reconstruction of space debris. Eurasip Journal on Advances in Signal Processing, 2014, 2014, . | 1.7 | 1 |
| 135 | A Bayesian model for system level reliability estimation. , 2015, , . | | 1 |
| 136 | A computationally inferred regulatory heart aging model including post-transcriptional regulations. , 2016, , . | | 1 |
| 137 | Shielding Performance Monitor Counters: a double edged weapon for safety and security. , 2018, , . | | 1 |
| 138 | Special session: How approximate computing impacts verification, test and reliability. , 2018, , . | | 1 |
| 139 | Combining Cluster Sampling and ACE analysis to improve fault-injection based reliability evaluation of GPU-based systems. , 2019, , . | | 1 |
| 140 | Special Session: Operating Systems under test: an overview of the significance of the operating system in the resiliency of the computing continuum. , 2021, , . | | 1 |
| 141 | A 3D Voxel Neighborhood Classification Approach within a Multiparametric MRI Classifier for Prostate Cancer Detection. Lecture Notes in Computer Science, 2015, , 231-239. | 1.3 | 1 |
| 142 | Genetic Defect Based March Test Generation for SRAM. Lecture Notes in Computer Science, 2011, , 141-150. | 1.3 | 1 |
| 143 | EXT-TAURUM P2T: An Extended Secure CAN-FD Architecture for Road Vehicles. IEEE Transactions on Device and Materials Reliability, 2022, 22, 98-110. | 2.0 | 1 |
| 144 | Artificial Resilience in neuromorphic systems. , 2022, , . | | 1 |

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| 145 | On integrating a proprietary and a commercial architecture for optimal BIST performances in SoCs. , 0, , . | | 0 |
| 146 | Digital, Memory and Mixed-Signal Test Engineering Education: Five Centres of Competence in Europe. , 0, , . | | 0 |
| 147 | A tool for teaching memory testing based on BIST. International Biennial Baltic Electronics Conference, 2006, , . | 0.0 | 0 |
| 148 | Using ER models for microprocessor functional test coverage evaluation. , 2008, , . | | 0 |
| 149 | Gene expression reliability estimation through cluster-based analysis. , 2009, , . | | 0 |
| 150 | Gene expression classifiers and out-of-class samples detection. , 2009, , . | | 0 |
| 151 | Test infrastructures evaluation at transaction level. , 2009, , . | | 0 |
| 152 | System reliability evaluation using concurrent multi-level simulation of structural faults. , 2010, , . | | 0 |
| 153 | Validation &amp; Verification of an EDA automated synthesis tool. , 2011, , . | | 0 |
| 154 | Covariance Matrix Adaptation Evolutionary Strategy for Drift Correction of Electronic Nose Data. , 2011, , . | | 0 |
| 155 | SAFE: A self adaptive frame enhancer FPGA-based IP-core for real-time space applications. , 2013, , . | | 0 |
| 156 | Innovative practices session 9C DFT and data for diagnostics. , 2017, , . | | 0 |
| 157 | Innovative practices session 5C automotive test solutions. , 2017, , . | | 0 |
| 158 | Bayesian models for early cross-layer reliability analysis and design space exploration. , 2019, , . | | 0 |
| 159 | Guest Editorsâ€™ Introduction: Selected Papers from IEEE VLSI Test Symposium. IEEE Design and Test, 2020, 37, 5-6. | 1.2 | 0 |
| 160 | Cross-Layer Soft-Error Resilience Analysis of Computing Systems. , 2020, , . | | 0 |
| 161 | Engineering Minds for Biologists. , 2021, , 79-90. | | 0 |
| 162 | Guest Editorial: Special Section on Emerging Trends and Computing Paradigms for Testing, Reliability and Security in Future VLSI Systems. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 649-650. | 4.6 | 0 |

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|---|---------|-----|-----------|
| 163 | A Computational Pipeline to Identify New Potential Regulatory Motifs in Melanoma Progression. Communications in Computer and Information Science, 2015, , 181-194. | 0.5 | 0 |
| 164 | System biology (SB) allows the identification of pathogenic micro RNA (miR) in BOS. , 2015, , . | | 0 |
| 165 | Breathomics can discriminate between anti IgE-treated and non-treated severe asthma adults. , 2015, , . | | 0 |
| 166 | LSC Abstract â€" Identification of pathogenic micro RNA (miR) in BOS: A system biology approach. , 2016, , . | | 0 |
| 167 | TTTC News. IEEE Design and Test, 2022, 39, 134-136. | 1.2 | 0 |
| 168 | Test Technology Newsletter. Journal of Electronic Testing: Theory and Applications (JETTA), 0, , 1. | 1.2 | 0 |
| 169 | Using Analog Scrambling Circuits for Automotive Sensor Integrity and Authenticity. , 2022, , . | | 0 |