

Rajesh K Gupta

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.

38

papers

885

citations

16

h-index

29

g-index

45

ext. papers

1,137

ext. citations

3.5

avg, IF

4.29

L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 38 | Hardware/Software Codesign for Energy Efficiency and Robustness: From Error-Tolerant Computing to Approximate Computing. <i>Embedded Systems</i> , 2021 , 527-543 | | 2 |
| 37 | Performance Analysis of Timing-Speculative Processors. <i>IEEE Transactions on Computers</i> , 2021 , 1-1 | 2.5 | 0 |
| 36 | Critical Risk Indicators (CRIs) for the electric power grid: a survey and discussion of interconnected effects. <i>Environment Systems and Decisions</i> , 2021 , 1-22 | 4.1 | 2 |
| 35 | ACES. <i>ACM Transactions on Sensor Networks</i> , 2020 , 16, 1-31 | 2.9 | 4 |
| 34 | Formalizing Tag-Based Metadata With the Brick Ontology. <i>Frontiers in Built Environment</i> , 2020 , 6, | 2.2 | 7 |
| 33 | Accelerating Local Binary Pattern Networks with Software-Programmable FPGAs 2019 , | | 4 |
| 32 | Serving deep neural networks at the cloud edge for vision applications on mobile platforms 2019 , | | 5 |
| 31 | Variability Expeditions: A Retrospective. <i>IEEE Design and Test</i> , 2019 , 36, 65-67 | 1.4 | 2 |
| 30 | A Wearable, Extensible, Open-Source Platform for Hearing Healthcare Research. <i>IEEE Access</i> , 2019 , 7, 162083-162101 | 3.5 | 7 |
| 29 | Beyond a House of Sticks 2019 , | | 4 |
| 28 | Multi-tenant mobile offloading systems for real-time computer vision applications 2019 , | | 5 |
| 27 | Brick : Metadata schema for portable smart building applications. <i>Applied Energy</i> , 2018 , 226, 1273-1292 | 10.7 | 60 |
| 26 | CLIM: A Cross-Level Workload-Aware Timing Error Prediction Model for Functional Units. <i>IEEE Transactions on Computers</i> , 2018 , 67, 771-783 | 2.5 | 16 |
| 25 | Energy-efficient neural networks using approximate computation reuse 2018 , | | 22 |
| 24 | SnaPEA: Predictive Early Activation for Reducing Computation in Deep Convolutional Neural Networks 2018 , | | 60 |
| 23 | Mitigating Multi-tenant Interference in Continuous Mobile Offloading. <i>Lecture Notes in Computer Science</i> , 2018 , 20-36 | 0.9 | 1 |
| 22 | SLoT: A supervised learning model to predict dynamic timing errors of functional units 2017 , | | 15 |

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|----|---|------|-----|
| 21 | QoS-Aware Scheduling of Heterogeneous Servers for Inference in Deep Neural Networks 2017 , | | 16 |
| 20 | Binarized Convolutional Neural Networks with Separable Filters for Efficient Hardware Acceleration 2017 , | | 11 |
| 19 | Mitigating multi-tenant interference on mobile offloading servers 2017 , | | 1 |
| 18 | Spatial and Temporal Memoization 2017 , 181-190 | | |
| 17 | CIRCA-GPUs: Increasing Instruction Reuse Through Inexact Computing in GP-GPUs. <i>IEEE Design and Test</i> , 2016 , 33, 85-92 | 1.4 | 6 |
| 16 | . <i>Proceedings of the IEEE</i> , 2016 , 104, 1410-1448 | 14.3 | 25 |
| 15 | Associative Memristive Memory for Approximate Computing in GPUs. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2016 , 6, 222-234 | 5.2 | 16 |
| 14 | Supervised learning based model for predicting variability-induced timing errors 2015 , | | 6 |
| 13 | Application-Adaptive Guardbanding to Mitigate Static and Dynamic Variability. <i>IEEE Transactions on Computers</i> , 2014 , 63, 2160-2173 | 2.5 | 26 |
| 12 | Improving Resilience to Timing Errors by Exposing Variability Effects to Software in Tightly-Coupled Processor Clusters. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2014 , 4, 216-229 | 5.2 | 5 |
| 11 | A variability-aware OpenMP environment for efficient execution of accuracy-configurable computation on shared-FPU processor clusters 2013 , | | 15 |
| 10 | Spatial Memoization: Concurrent Instruction Reuse to Correct Timing Errors in SIMD Architectures. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2013 , 60, 847-851 | 3.5 | 28 |
| 9 | Underdesigned and Opportunistic Computing in Presence of Hardware Variability. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2013 , 32, 8-23 | 2.5 | 88 |
| 8 | Analysis of instruction-level vulnerability to dynamic voltage and temperature variations 2012 , | | 18 |
| 7 | Sensor localization with deterministic accuracy guarantee 2011 , | | 19 |
| 6 | Underdesigned and Opportunistic Computing 2011 , | | 1 |
| 5 | Understanding the Impact of Emerging Non-Volatile Memories on High-Performance, IO-Intensive Computing 2010 , | | 80 |
| 4 | Optimal Speed Control of Mobile Node for Data Collection in Sensor Networks. <i>IEEE Transactions on Mobile Computing</i> , 2010 , 9, 127-139 | 4.6 | 106 |

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|---|--|-----|-----|
| 3 | Moneta: A High-Performance Storage Array Architecture for Next-Generation, Non-volatile Memories 2010 , | | 163 |
| 2 | Translation Validation of High-Level Synthesis. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2010 , 29, 566-579 | 2.5 | 35 |
| 1 | Synthesis and Optimization of Combinational Interface Circuits. <i>Journal of Signal Processing Systems</i> , 2002 , 31, 243-261 | | 1 |