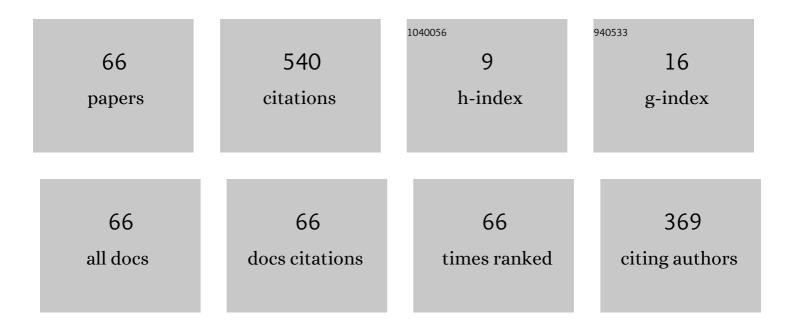
M Balakrishnan

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Standardizing the approach to late onset sepsis in neonates through antimicrobial stewardship: a quality improvement initiative. Journal of Perinatology, 2020, 40, 1433-1440. | 2.0 | 11 |
| 2 | ML Guided Energy-Performance Trade-Off Estimation For Uncore Frequency Scaling. , 2019, , . | | 4 |
| 3 | Evaluating the Use of Variable Height in Tactile Graphics. , 2019, , . | | 3 |
| 4 | Majority Logic: Prime Implicants and n-Input Majority Term Equivalence. , 2019, , . | | 3 |
| 5 | GRanDE: Graphical Representation and Design Space Exploration of Embedded Systems. , 2019, , . | | Ο |
| 6 | Equivalence Checking and Compaction of n-input Majority Terms Using Implicants of Majority. Journal of Electronic Testing: Theory and Applications (JETTA), 2019, 35, 679-694. | 1.2 | 0 |
| 7 | Tactile Diagrams for the Visually Impaired. IEEE Potentials, 2017, 36, 14-18. | 0.3 | 18 |
| 8 | Promoting teamwork may improve infant care processes during delivery room management: Florida perinatal quality collaborative's approach. Journal of Perinatology, 2017, 37, 886-892. | 2.0 | 16 |
| 9 | Optimal mapping of program overlays onto many-core platforms with limited memory capacity. Design Automation for Embedded Systems, 2017, 21, 173-194. | 1.0 | 1 |
| 10 | Leakage Power Aware Task Assignment Algorithms for Multicore Platforms. , 2016, , . | | 4 |
| 11 | Configurable Architectures for Multi-Mode Floating Point Adders. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 2079-2090. | 5.4 | 6 |
| 12 | High Level Design Approach to Accelerate De Novo Genome Assembly Using FPGAs. , 2014, , . | | 1 |
| 13 | Configurable Architecture for Double/Two-Parallel Single Precision Floating Point Division. , 2014, , . | | 6 |
| 14 | Mapping Tasks to a Dynamically Reconfigurable Coarse Grained Array. , 2014, , . | | 2 |
| 15 | LightSim: A leakage aware ultrafast temperature simulator. , 2014, , . | | 16 |
| 16 | Unified Architecture for Double/Two-Parallel Single Precision Floating Point Adder. IEEE Transactions on Circuits and Systems II: Express Briefs, 2014, 61, 521-525. | 3.0 | 16 |
| 17 | Accelerating Genome Assembly Using Hard Embedded Blocks in FPGAs. , 2014, , . | | 7 |
| 18 | Series Expansion based Efficient Architectures for Double Precision Floating Point Division. Circuits, Systems, and Signal Processing, 2014, 33, 3499-3526. | 2.0 | 7 |

| # | Article | IF | CITATIONS |
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| 19 | Accelerating 3D-FFT Using Hard Embedded Blocks in FPGAs. , 2013, , . | | 8 |
| 20 | FAssem: FPGA Based Acceleration of De Novo Genome Assembly. , 2013, , . | | 20 |
| 21 | Design and Implementation of High Performance Architectures with Partially Reconfigurable CGRAs. , 2013, , . | | 2 |
| 22 | Performance Estimation of GPUs with Cache. , 2012, , . | | 15 |
| 23 | System-Level Design Space Exploration Methodology for Energy-Efficient Sensor Node Configurations: An Experimental Validation. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2012, 31, 586-596. | 2.7 | 4 |
| 24 | Compressing Cache State for Postsilicon Processor Debug. IEEE Transactions on Computers, 2011, 60, 484-497. | 3.4 | 3 |
| 25 | Blood urea nitrogen and serum bicarbonate in extremely low birth weight infants receiving higher protein intake in the first week after birth. Journal of Perinatology, 2011, 31, 535-539. | 2.0 | 23 |
| 26 | A tiled programmable fabric using QCA. , 2010, , . | | 0 |
| 27 | Enhancing post-silicon processor debug with Incremental Cache state Dumping. , 2010, , . | | 2 |
| 28 | A generic platform for estimation of multi-threaded program performance on heterogeneous multiprocessors. , 2009, , . | | 4 |
| 29 | FPGA accelerator for protein structure prediction algorithm. , 2009, , . | | 11 |
| 30 | Integrated energy analysis of error correcting codes and modulation for energy efficient wireless sensor nodes. IEEE Transactions on Wireless Communications, 2009, 8, 5348-5355. | 9.2 | 47 |
| 31 | Cache aware compression for processor debug support. , 2009, , . | | 6 |
| 32 | A Framework for Energy-Consumption-Based Design Space Exploration for Wireless Sensor Nodes. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2009, 28, 1017-1024. | 2.7 | 52 |
| 33 | Evaluation of Bus Based Interconnect Mechanisms in Clustered VLIW Architectures. International Journal of Parallel Programming, 2007, 35, 507-527. | 1.5 | 1 |
| 34 | An Efficient Technique for Exploring Register File Size in ASIP Design. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2004, 23, 1693-1699. | 2.7 | 3 |
| 35 | Exploring storage organization in ASIP synthesis. , 2003, , . | | 3 |
| 36 | Analysis of the influence of register file size on energy consumption, code size, and execution time. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2001, 20, 1329-1337. | 2.7 | 26 |

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| 37 | A STUDY OF EFFICACY OF HETEROGENEOUS BONE GRAFTS (SURGIBONE) IN ORTHOPAEDIC SURGERY. Medical Journal Armed Forces India, 2000, 56, 21-23. | 0.8 | 3 |
| 38 | Simulation and modeling of a multicast ATM switch. , 1999, , . | | 0 |
| 39 | SALMONELLA SENFTENBERG OSTEOMYELITIS. Medical Journal Armed Forces India, 1999, 55, 153-154. | 0.8 | 0 |
| 40 | OSTEOID OSTEOMA IN NECK OF FEMUR. Medical Journal Armed Forces India, 1999, 55, 163-164. | 0.8 | 2 |
| 41 | EXTERNAL FIXATION OF INTERTROCHANTERIC FRACTURES OF FEMUR IN ELDERLY. Medical Journal Armed Forces India, 1999, 55, 325-327. | 0.8 | 1 |
| 42 | AN UNUSUAL CASE OF FRACTURE DISLOCATION NECK OF TALUS. Medical Journal Armed Forces India, 1999, 55, 270-272. | 0.8 | 0 |
| 43 | Direct mapping of RTL structures onto LUT-based FPGA's. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 1998, 17, 624-631. | 2.7 | 15 |
| 44 | An efficient retargetable microprogram generating system. Microprocessing and Microprogramming, 1987, 19, 305-318. | 0.2 | 2 |
| 45 | A survey of microprogramming languages. Microprocessing and Microprogramming, 1986, 17, 19-27. | 0.2 | 2 |
| 46 | An efficient retargetable microcode generator. ACM SIGMICRO Newsletter, 1986, 17, 44-53. | 0.4 | 1 |
| 47 | DESSERT: Design Space Exploration of RT Level Components. , 0, , . | | 4 |
| 48 | Optimal clock period for synthesized data paths. , 0, , . | | 5 |
| 49 | A novel reconfigurable co-processor architecture. , 0, , . | | 4 |
| 50 | Allocation of FIFO structures in RTL data paths. , 0, , . | | 3 |
| 51 | Real time collision detection and avoidance. A case study for design space exploration in HW-SW codesign. , 0, , . | | Ο |
| 52 | Optimal hardware/software partitioning for concurrent specification using dynamic programming. , 0, , . | | 6 |
| 53 | Interface synthesis: issues and approaches. , 0, , . | | 15 |
| 54 | Processor evaluation in an embedded systems design environment. , 0, , . | | 27 |

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| # | Article | IF | CITATIONS |
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| 55 | ASIP design methodologies: survey and issues. , 0, , . | | 71 |
| 56 | A specialized graduate program in VLSI design: a success story. , 0, , . | | 0 |
| 57 | Integrating communication cost estimation in embedded systems design: a PCI case study. , 0, , . | | 0 |
| 58 | Evaluating register file size in ASIP design. , 0, , . | | 3 |
| 59 | Exploring the number of register windows in ASIP synthesis. , 0, , . | | 3 |
| 60 | A new divide and conquer method for achieving high speed division in hardware. , 0, , . | | 0 |
| 61 | SoC synthesis with automatic hardware-software interface generation. , 0, , . | | 5 |
| 62 | Synthesis of application specific multiprocessor architectures for process networks. , 0, , . | | 1 |
| 63 | Evaluation of Bus Based Interconnect Mechanisms in Clustered VLIW Architectures. , 0, , . | | 8 |
| 64 | A Specialized Graduate Program in VLSI Design Tools and Technology. , 0, , . | | 0 |
| 65 | Integrated on-chip storage evaluation in ASIP synthesis. , 0, , . | | 5 |
| 66 | Rapid Resource-Constrained Hardware Performance Estimation. , 0, , . | | 3 |