Research output: Scientific - peer-review › Article

Nurmi, Jari (Editor); Vesterbacka, Mark (Editor); Wikner, J. Jacob (Editor); Alvandpour, Atila (Editor); Nielsen-Lönn, Martin (Editor); Nielsen, Ivan Ring (Editor) / Proc. 2017 IEEE Nordic Circuits and Systems Conference (NORCAS).
Research output: Scientific - peer-review › Anthology

Viitanen, Timo; Koskela, Matias; Jääskeläinen, Pekka; Kultala, Heikki; Takala, Jarmo / MergeTree: A Fast Hardware HLBVH Constructor for Animated Ray Tracing.
Research output: Scientific - peer-review › Article

Viitanen, Timo; Koskela, Matias; Jääskeläinen, Pekka; Immonen, Kalle; Takala, Jarmo / Fast Hardware Construction and Refitting of Quantized Bounding Volume Hierarchies.
Research output: Scientific - peer-review › Article

Shamani, Farid; Fakour Sevom, Vida; Ahonen, Tapani; Nurmi, Jari / Integration Issues of a run-Time Configurable Memory Management Unit to a RISC Processor on FPGA.
Research output: Scientific - peer-review › Article

Research output: Scientific - peer-review › Anthology

Research output: Scientific - peer-review › Article

Nouri, Sajjad; Hussain, Waqar; Göhringer, Diana; Numi, Jari / Design and Implementation of IEEE 802.11a/g Receiver Blocks on a Coarse-Grained Reconfigurable Array.
Research output: Scientific - peer-review › Chapter

Hussain, Waqar; Hoffmann, Henry; Ahonen, Tapani; Numi, Jari / Design Transformation from a Single-Core to a Multi-Core Architecture Targeting Massively Parallel Signal Processing Algorithms.
Research output: Scientific - peer-review › Chapter

Loulou, Ala; Yli-Kaakinen, Juha; Renfors, Markku / Efficient fast-convolution based implementation of 5G waveform processing using circular convolution decomposition.
Research output: Scientific - peer-review › Conference contribution

Shao, Kai; Pi; Luping; Yli-Kaakinen, Juha; Renfors, Markku / Filtered multitone multicarrier modulation with partially overlapping sub-channels.
Research output: Scientific - peer-review › Conference contribution
Wang, Kui; Nurmi, Jari; Ahonen, Tapani / *Accelerating Computation on an Android Phone with OpenCL Parallelism and Optimizing Workload Distribution between a Phone and a Cloud Service.*
Research output: Scientific - peer-review › Conference contribution

Nurmi, Jari; Lohan, Elena-Simona / *MULTI-POS: Marie Curie Network in Multi-technology Positioning.*
Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Article

Aghababaeetafreshi, Mona; Lehtonen, Lasse K.; Levanen, Toni; Valkama, Mikko; Takala, Jarmo / *IEEE 802.11ac MIMO Transceiver Baseband Processing on a VLIW Processor.*
Research output: Scientific - peer-review › Article

Kultala, Heikki; Multanen, Joonas; Jääskeläinen, Pekka; Viitanen, Timo; Takala, Jarmo / *Impact of Operand sharing to the Processor Energy Efficiency.*
Research output: Scientific - peer-review › Conference contribution

Multanen, Joonas; Kultala, Heikki; Koskela, Matias; Viitanen, Timo; Jääskeläinen, Pekka; Takala, Jarmo; Danielyan, Aram; Cruz, Cristóvão / *OpenCL Programmable Exposed Datapath High Performance Low-Power Image Signal Processor.*
Research output: Scientific - peer-review › Conference contribution

Yli-Kaakinen, Juha; Levanen, Toni; Aghababaeetafreshi, Mona; Renfors, Markku; Valkama, Mikko / *Optimization of parallel processing intensive digital front-end for IEEE 802.11ac receiver.*
Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Article

Glossner, John; Blinzer, Paul; Takala, Jarmo / *HSA-Enabled DSPs and Accelerators.*
Research output: Scientific - peer-review › Conference contribution

Ghazi, Amanullah; Boutellier, Jani; Silven, Olli; Shahabuddin, Shahriar; Juntti, Markku; Bhattacharyya, Shuvra; Anttila, Lauri / *Model-based design and implementation of an adaptive digital predistortion filter.*
Research output: Scientific - peer-review › Conference contribution

Koskinen, Jukka Antero / *E-learning of ethics, awareness, hacking and research by information security majors.*
Research output: Scientific - peer-review › Conference contribution
Collin, Jussi / MEMS IMU Carouseling for Ground Vehicles.
In: IEEE Transactions on Vehicular Technology, Vol. 64, No. 6, 16.06.2015, p. 2242-2251.
Research output: Scientific - peer-review › Article

Liu, Y.; Barford, L.; Bhattacharyya, S.S. / Constant-rate clock recovery and jitter measurement on deep memory waveforms using datalock.
Research output: Scientific - peer-review › Conference contribution

Seppälä, Jari; Salmenperä, Mikko; Koivisto, Hannu; Harju, Jarmo; Repo, Sami; Holmström, John; Ahonen, Pasi / Towards automation security research and training environment.
Research output: Scientific - peer-review › Conference contribution

Rakkolainen, Ismo; Sand, Antti; Palovuori, Karri / Midair User Interfaces Employing Particle Screens.
Research output: Scientific - peer-review › Article

Blattner, Timothy; Keyrouz, Walid; Halem, Milton; Brady, Mary; Bhattacharyya, Shuvra / A Hybrid Task Graph Scheduler for High Performance Image Processing Workflows.
Research output: Scientific - peer-review › Conference contribution

Kim, Scott C.; Bhattacharyya, Shuvra S. / An efficient GPU implementation of a multirate resampler for multi-carrier systems.
Research output: Scientific - peer-review › Conference contribution

Airoldi, Roberto; Campi, Fabio; Cucchi, Manuele; Revanna, Deepak; Anjum, Omer; Nurmi, Jari / Design and Implementation of a Power-aware FFT Core for OFDM-based DSA-enabled Cognitive Radios.
Research output: Scientific - peer-review › Article

Sand, Antti; Rakkolainen, Ismo; Isokoski, Poika; Kangas, Jari; Raisamo, Roope; Palovuori, Karri / Head-mounted Display with Mid-air Tactile Feedback.
Research output: Scientific - peer-review › Conference contribution

Viitanen, Marko; Koivula, Ari; Lemmetti, Ari; Vanne, Jarno; Hämäläinen, Timo D. / Kvazaar HEVC encoder for Efficient Intra Coding.
Research output: Scientific - peer-review › Conference contribution

Koivula, Ari; Viitanen, Marko; Vanne, Jarno; Hämäläinen, Timo D.; Fasnacht, Laurent / Parallelization of Kvazaar HEVC Intra Encoder for Multi-core Processors.
Research output: Scientific - peer-review › Conference contribution

Bojja, Jayaprasad; Collin, Jussi; Särkkä, Simo; Takala, Jarmo / Pedestrian Localization In Moving Platforms Using Dead Reckoning, Particle Filtering and Map Matching.
Della Rosa, Francescantonio; Paakki, Tommi; Nurmi, Jari; Pelosi, Mauro; Della Rosa, Gianluca / Hand-grip impact on range-based cooperative positioning.
Research output: Scientific - peer-review › Conference contribution

Eerola, Ville; Nurmi, Jari / High-level parameterizable area estimation modeling for ASIC designs.
Research output: Scientific - peer-review › Article

Virtanen, Janne; Matiliainen, Lauri; Salminen, Ermo; Hämäläinen, Timo D / Implementation of Multicore Communications API.
Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Conference contribution

Anjum, Omer; Ahonen, Tapani; Nurmi, Jari / MPSoC based on Transport Triggered Architecture for Baseband Processing of an LTE Receiver.
Research output: Scientific - peer-review › Article

Nurmi, Jari; Della Rosa, Francescantonio; Lohan, Elena-Simona / MULTI-POS - Multi-technology Positioning Professionals Training Network.
Research output: Scientific - peer-review › Conference contribution

Paakki, Tommi; Della Rosa, Francescantonio; Nurmi, Jari / PVT Computation Issues in Mixed Galileo/GPS Reception.
Research output: Scientific - peer-review › Chapter

Thombre, Sarang; Nurmi, Jari / Software Simulators and Multi-Frequency Test Scenarios for GALILEO.
Research output: Scientific - peer-review › Chapter

McAllister, John; Guevorkian, David; Jeschke, Hartwig; Sima, Mihai / Special Issue on Embedded Computer Systems: Architectures, Modeling and Simulation.
Research output: Scientific - peer-review › Special issue

Research output: Scientific - peer-review › Conference contribution
Campi, Fabio; Neal, Vivian; Airoldi, Roberto; Nurmi, Jari / Training communication skills in project-oriented microelectronics courses.
Research output: Scientific - peer-review › Conference contribution

Anjum, Omer; Ali, Mubashir; Pitkänen, Teemu; Nurmi, Jari / Transport triggered architecture to perform carrier synchronization for LTE.
Research output: Scientific - peer-review › Article