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

In: IEEE Transactions on Parallel and Distributed Systems, 22.05.2017.
Research output: Scientific - peer-review › Article

Hussain, Waqar; Numri, Jari; Isoaho, Jouni; Garzia, Fabio / Computing Platforms for Software-Defined Radio.
Research output: Scientific - peer-review › Anthology

Research output: Scientific - peer-review › Article

Nouri, Sajjad; Hussain, Waqar; Göhringer, Diana; Numri, 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; Numri, Jari / Design Transformation from a Single-Core to a Multi-Core Architecture Targeting Massively Parallel Signal Processing Algorithms.
Research output: Scientific - peer-review › Chapter

Lohan, Elena-Simona; Wymeersch, Henk; Nykänen, Ossi; Numri, Jari; Seco-Granados, Gonzalo / Introduction and Book Structure.
Research output: Scientific - peer-review › Chapter

Nurmi, Jari (Editor); Lohan, Elena-Simona (Editor); Wymeersch, Henk (Editor); Seco-Granados, Gonzalo (Editor); Nykänen, Ossi (Editor) / Multi-Technology Positioning.
Research output: Scientific - peer-review › Anthology

Airoldi, Roberto; Garzia, Fabio; Ahonen, Tapani; Numri, Jari / Ninasilica: A Homogeneous MPSoC Approach for SDR Platforms.
Research output: Scientific - peer-review › Chapter

Shamani, Farid; Ahonen, Tapani; Numri, Jari / Synchronization in NC-OFDM-Based Cognitive Radio Platforms.
Research output: Scientific - peer-review › Chapter

Research output: Scientific - peer-review › Chapter
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 dataflow.
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.
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

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.
Research output: Scientific - peer-review › Conference contribution

Pekkarinen, Esko; Tehou, Mikko; Salminen, Erno; Hämäläinen, Timo D. / Resolving parameter reference management in IP-XACT using Kactus2.
Research output: Scientific - peer-review › Conference contribution

Wang, Kui; Salminen, Erno; Nurmi, Jari; Ahonen, Tapani / WarmPie: A bare-bones implementation of message passing interface for embedded many-cores.
Nurmi, Jari (Editor); Ellervee, Peeter (Editor); Indrusiak, Leandro Soares (Editor); Vainio, Olli (Editor); Thombre, Sarang (Editor); Raasakka, Jussi (Editor) / 2013 International Symposium on System-on-Chip Proceedings. Institute of Electrical and Electronics Engineers IEEE, 2014.

Campi, Fabio; Airoldi, Roberto; Nurmi, Jari / Accommodating the fast-paced evolution of VLSI in engineering curricula. 10th European Workshop on Microelectronics Education (EWME), 14-16 May 2014, Tallinn. Institute of Electrical and Electronics Engineers IEEE, 2014. p. 208-212.


Figueiredo e Silva, Pedro; Daniel, Ondrej; Nurmi, Jari; Lohan, Elena Simona / Cyclostationary features of downsampled 802.11g OFDM signal for cognitive positioning systems. 2014 11th International Symposium on Wireless Communications Systems (ISWCS), 26-29 August 2014, Barcelona, Spain. Institute of Electrical and Electronics Engineers IEEE, 2014. p. 950-954.


Hussain, Waqar; Airoldi, Roberto; Hoffmann, Henry; Ahonen, Tapani; Nurmi, Jari / Design of an accelerator-rich architecture by integrating multiple heterogeneous coarse grain reconfigurable arrays over a network-on-chip.
Stirbu, Vlad; Aaltonen, Timo / Enabling Real-Time Resource Oriented Architectures with REST Observers.
Research output: Scientific - peer-review › Chapter

Paakki, Tommi; Nurmi, Jari / Faster than real-time GNSS receiver testing.
Research output: Scientific - peer-review › Conference contribution

Shamani, Farid; Airoldi, Roberto; Ahonen, Tapani; Nurmi, Jari / FPGA Implementation of a Flexible Synchronizer for Cognitive Radio Applications.
Research output: Scientific - peer-review › Conference contribution

Nurmi, Jari (Editor); Lohan, Elena-Simona (Editor); Sand, Stephan (Editor); Hurskainen, Heikki (Editor) / GALILEO Positioning Technology.
Research output: Scientific - peer-review › Anthology

Lohan, Elena Simona; Hurskainen, Heikki; Nurmi, Jari / Galileo Signals.
Research output: Scientific - peer-review › Chapter

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; Mattilainen, Lauri; Salminen, Erno; 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