

### **Application of extensible processing platforms for experiments with FPGA-based circuits**

Sklyarov, Valery; Skliarova, Iuliia; Silva, João; **Rjabov, Artjom; Sudnitsõn, Aleksander** MELECON 2014 : 2014 17th IEEE Mediterranean Electrotechnical Conference : 13-16 April 2014, Beirut, Lebanon 2014 / p. 467-471 : ill <https://doi.org/10.1109/MELCON.2014.6820579> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Computing sorted subsets for data processing in communicating software/hardware control systems**

Sklyarov, Valery; Skliarova, Iuliia; **Rjabov, Artjom; Sudnitsõn, Aleksander** International journal of computers communications & control 2016 / p. 126-141 : ill <https://doi.org/10.15837/ijccc.2016.1.1442> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Fast iterative circuits and RAM-based mergers to accelerate data sort in software/hardware systems**

Sklyarov, Valery; Skliarova, Iuliia; **Rjabov, Artjom; Sudnitsõn, Aleksander** Proceedings of the Estonian Academy of Sciences 2017 / p. 323-335 : ill <https://doi.org/10.3176/proc.2017.3.07> [http://www.ester.ee/record=b2355998\\*est](http://www.ester.ee/record=b2355998*est) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Fast matrix covering in all programmable systems-on-chip**

Sklyarov, Valery; Skliarova, Iuliia; **Rjabov, Artjom; Sudnitsõn, Aleksander** Elektronika ir elektrotehnika = Electronics and electrical engineering 2014 / p. 150-153 : ill <https://doi.org/10.5755/j01.eee.20.5.7116> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Hardware accelerators for information retrieval and data mining**

Sklyarov, Valery; Skliarova, Iuliia; Silva, João; **Sudnitsõn, Aleksander; Rjabov, Artjom** 2015 International Conference on Information and Communication Technology Research (ICTRC2015) : Abu Dhabi, United Arab Emirates, May 17-19, 2015 2015 / p. 202-205 : ill <http://dx.doi.org/10.1109/ICTRC.2015.7156457>

### **Hardware/software co-design for programmable systems-on-chip**

Sklyarov, Valery; Skliarova, Iuliia; Silva, João; Rjabov, Artjom; **Sudnitsõn, Aleksander**; Cardoso, Cláudia 2014 [http://www.ester.ee/record=b3087107\\*est](http://www.ester.ee/record=b3087107*est)

### **Hardware/software co-design in extensible processing platforms for combinatorial search algorithms**

Skliarova, Iuliia; Sklyarov, Valery; **Rjabov, Artjom; Sudnitsõn, Aleksander** MELECON 2014 : 2014 17th IEEE Mediterranean Electrotechnical Conference : 13-16 April 2014, Beirut, Lebanon 2014 / p. 462-466 : ill <https://doi.org/10.1109/MELCON.2014.6820578> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Hardware-based systems for partial sorting of streaming data**

**Rjabov, Artjom** BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. 59-62 : ill [http://www.ester.ee/record=b2150914\\*est](http://www.ester.ee/record=b2150914*est)

### **High-performance information processing in distributed computing systems**

Sklyarov, Valery; **Rjabov, Artjom**; Skliarova, Iuliia; **Sudnitsõn, Aleksander** International journal of innovative computing, information and control 2016 / p. 139-160 : ill [https://www.researchgate.net/publication/297047447\\_High-performance\\_information\\_processing\\_in\\_distributed\\_computing\\_systems](https://www.researchgate.net/publication/297047447_High-performance_information_processing_in_distributed_computing_systems) [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Implementation of parallel operations over streams in extensible processing platforms**

Sklyarov, Valery; Skliarova, Iuliia; **Rjabov, Artjom; Sudnitsõn, Aleksander** 2013 IEEE 56th International Midwest Symposium on Circuits and Systems (MWSCAS) : August 4-7, 2013, Columbus, Ohio : [proceedings] 2013 / p. 852-855 : ill <https://doi.org/10.1109/MWSCAS.2013.6674783> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Interactions of Zynq-7000 devices with general purpose computers through PCI-express : a case study [Electronic resource]**

**Rjabov, Artjom; Sudnitsõn, Aleksander**; Sklyarov, Valery; Skliarova, Iuliia Proceedings of the 18th Mediterranean Electrotechnical Conference MELECON 2016 : 18-20 April 2016, Limassol, Cyprus 2016 / [4] p. : ill. [CD-ROM] <https://doi.org/10.1109/MELCON.2016.7495400>

### **Network-based hardware accelerators for parallel data processing = Võrgupõhised riistvarakiirendid paralleelseks andmetöötuseks**

**Rjabov, Artjom** 2017 <https://digi.lib.ttu.ee/i/28436> [https://www.ester.ee/record=b4685402\\*est](https://www.ester.ee/record=b4685402*est)

### **Optimization of address-based data sorting unit with external memory support**

**Mihhailov, Dmitri; Rjabov, Artjom**; Sklyarov, Valery; Skliarova, Iuliia; **Sudnitsõn, Aleksander** CompSysTech'13 : proceedings of the 14th International Conference on Computer Systems and Technologies 2013 / p. 83-90 : ill <https://doi.org/10.1145/2516775.2516807> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Processing sorted subsets in a multi-level reconfigurable computing system**

**Rjabov, Artjom**; Sklyarov, Valery; Skliarova, Iuliia; **Sudnitsõn, Aleksander** Elektronika ir elektrotehnika = Electronics and

electrical engineering 2015 / p. 30-33 : ill <https://doi.org/10.5755/j01.eee.21.2.11509> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**RAM-based mergers for data sort and frequent item computation [Electronic resource]**

**Rjabov, Artjom**; Sklyarov, Valery; Skliarova, Ioulia; **Sudnitsõn, Aleksander** 2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics (MIPRO), May 22 - 26, 2017, Opatija, Croatia : proceedings 2017 / p. 176-181 : ill. [CD-ROM] <http://dx.doi.org/10.23919/MIPRO.2017.7973413>

**Zynq-based system for extracting sorted subsets from large data sets**

Sklyarov, Valery; Skliarova, Ioulia; **Rjabov, Artjom**; **Sudnitsõn, Aleksander** Journal of microelectronics, electronic components and materials 2015 / p. 142-152 : ill <https://ojs.midem-drustvo.si/index.php/InfMIDEM/article/view/117/0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)