# Vasile Gheorghita N Găitan

## List of Publications by Year
in descending order

| | | | |
|---|---|---|---|
| 34 papers | 277 citations | 1684188 5 h-index | 1281871 11 g-index |
| 34 all docs | 34 docs citations | 34 times ranked | 207 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | An IoT architecture for things from industrial environment. , 2014, , . | | 62 |
| 2 | CPU Architecture Based on a Hardware Scheduler and Independent Pipeline Registers. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2015, 23, 1661-1674. | 3.1 | 34 |
| 3 | Custom designed CPU architecture based on a hardware scheduler and independent pipeline registers &#x2014; Concept and theory of operation. , 2012, , . | | 20 |
| 4 | A flexible acquisition cycle for incompletely defined fieldbus protocols. ISA Transactions, 2014, 53, 776-786. | 5.7 | 19 |
| 5 | Enabling IoT connectivity for Modbus networks by using IoT edge gateways. , 2018, , . | | 15 |
| 6 | Design, Fabrication, and Testing of an IoT Healthcare Cardiac Monitoring Device. Computers, 2020, 9, 15. | 3.3 | 15 |
| 7 | An internet of things-based distributed intelligent system with self-optimization for controlling traffic-light intersections. , 2012, , . | | 12 |
| 8 | Hardware RTOS: Custom Scheduler Implementation Based on Multiple Pipeline Registers and MIPS32 Architecture. Electronics (Switzerland), 2019, 8, 211. | 3.1 | 11 |
| 9 | Methods to Improve the Performances of the Real-Time Operating Systems for Small Microcontrollers. , 2015, , . | | 9 |
| 10 | Transparent interaction of SCADA systems developed over different technologies. , 2014, , . | | 6 |
| 11 | Improving interrupt handling in the nMPRA. , 2014, , . | | 6 |
| 12 | Hardware event treating in nMPRA. , 2014, , . | | 6 |
| 13 | Smart cities become possible thanks to the Internet of Things. , 2015, , . | | 6 |
| 14 | Schedulability analysis of nMPRA processor based on multithreaded execution. , 2016, , . | | 6 |
| 15 | An RFID and OPC Technology Based Distributed System for Production Control and Monitoring. , 2007, , . | | 5 |
| 16 | Implementation of nMPRA CPU architecture based on preemptive hardware scheduler engine and different scheduling algorithms. IET Computers and Digital Techniques, 2017, 11, 221-230. | 1.2 | 5 |
| 17 | m-GreenCARDIO embedded system designed for out-of-hospital cardiac patients. , 2018, , . | | 5 |
| 18 | Middleware Based Model of Heterogeneous Systems for SCADA Distributed Applications. Advances in Electrical and Computer Engineering, 2010, 10, 121-124. | 0.9 | 5 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 19 | RFID network traffic analysis based on an empirical model. , 2012, , . | | 4 |
| 20 | An Overview of the nMPRA and nHSE Microarchitectures for Real-Time Applications. Sensors, 2021, 21, 4500. | 3.8 | 4 |
| 21 | The Uniform Engineering of Distributed Control Systems Using the OPC Specification. Advances in Electrical and Computer Engineering, 2008, 8, 71-77. | 0.9 | 4 |
| 22 | Dynamic, unbalanced distribution of tasks on a PS3 cluster system for double precision calculation. Journal of Supercomputing, 2012, 62, 1502-1518. | 3.6 | 3 |
| 23 | The use of IoT technologies for providing high-quality medical services. , 2017, , . | | 3 |
| 24 | Threads Pipelining on the CellBE Systems. Advances in Electrical and Computer Engineering, 2013, 13, 121-126. | 0.9 | 3 |
| 25 | The development of IoT applications using old hardware equipment and virtual TEDS. , 2016, , . | | 2 |
| 26 | Improving the performance of Real-Time Event Processing based on Preemptive Scheduler FPGA Implementation. , 2020, , . | | 2 |
| 27 | Products Authentication and Traceability using RFID Technology and OPC UA Servers. Elektronika Ir Elektrotechnika, 2012, 18, . | 0.8 | 2 |
| 28 | High Complexity Control Gates with Advanced RFID Features for Production Process Monitoring. , 2008, , . | | 1 |
| 29 | Programming paradigm of a microcontroller with hardware scheduler engine and independent pipeline registers - a software approach. , 2015, , . | | 1 |
| 30 | Evaluation of Balanced Capacitance Matching Unit for HF RFID Systems in Metallic Environments. Elektronika Ir Elektrotechnika, 2012, 18, . | 0.8 | 1 |
| 31 | A distributed software architecture for remote monitor and control of the smart buildings. , 2015, , . | | 0 |
| 32 | Improving the Performance of CPU Architectures by Reducing the Operating System Overhead (Extended Version). Electrical, Control and Communication Engineering, 2016, 10, 13-22. | 0.8 | 0 |
| 33 | Hardware Scheduler Implementation based on Replicated Resource Architecture for Reconfigurable Systems. , 2019, , . | | 0 |
| 34 | CPU Execution Time Analysis based on RISC-V ISA Simulators: A Survey. , 2022, , . | | 0 |