

PERSONAL INFORMATION

Bartolomeo Montrucchio

 bartolomeo.montrucchio@polito.it

Date of birth 12/6/1969 | Nationality Italian

WORK EXPERIENCE

From 2015 to now

Associate Professor at Politecnico di Torino
Department of Control and Computer Engineering

From 2003 to 2015

Assistant Professor at Politecnico di Torino
Department of Control and Computer Engineering

EDUCATION AND TRAINING

From 1999 - 2002

PhD Degree in Computer and Control Engineering
Politecnico di Torino

From 1988 - 1998

Laurea Degree in Electronic Engineering
Politecnico di Torino

Research and Academic Activity

Bartolomeo Montrucchio received the M.S. degree in Electronic Engineering in 1998 at the Politecnico di Torino with a thesis on "Algoritmi sequenziali e paralleli per la velocizzazione del ray casting" and few months later he took the engineering qualification.

From January 1997 to April 1999 he worked as technical assistant at CeSIT (Telematics and Computer Services at the Politecnico di Torino). Then, from 2002 to 2003 he had a research grant from the Politecnico, and in February 2002 he took the Ph.D. degree in Computer Engineering with a thesis on "Design and implementation of distributed environments and parallel algorithms for scientific visualization".

In January 2004, Bartolomeo Montrucchio became an assistant professor at the Politecnico di Torino (Department of Control and Computer Engineering) and finally in August 2015 became an associate professor at the Politecnico di Torino. His work both concerns teaching and research activities.

Teaching activities are carried out at the Politecnico di Torino as here depicted:

- starting from 2010/2011 he holds courses of Informatica, Computer Vision and Parallel and Distributed Computing (in English) besides laboratories of Computer Architectures and Operating systems and system programming (in English)
- in past years he held several other courses, mainly of Operating Systems; he also held laboratories of several other courses, starting in 1999/2000; he also held several courses at SIS school.

Moreover he is a ASP (High Polytechnic School from Milan and Turin) member and he has been responsible for projects presented at the European Researchers' Night (in Turin).

He is also vice-director of CIFIS Piemonte, a specialization school for enabling to teaching professors of the secondary upper school in Italy (in 2012-13 CIFIS had about 400 students).

Since 1999 he has been the supervisor of more than 40 degree thesis, other than

monographs.

Moreover, he currently is the tutor for one Ph. D student (four Ph.D students finished in the last years).

The scientific activities mostly concern:

- computer graphics and computer vision;
- parallel and distributed computing;
- scientific visualization;
- image processing;
- virtual reality and multimedia;
- telemedicine;
- motion estimation;
- Radio Frequency Identification (RFIDs);
- sensor networks.

He has an h-index of 13, with 490 citations (Scopus, 2nd May 2017).

In such research areas he is (co)author of many publications and internal reports of the Department of Control and Computer Engineering, and he has been a chairman and a reviewer for international conferences. Moreover he is a member of IEEE Circuits and Systems Society, a member of ACM and a member of Eurographics.

He has several patents, national (Italian) and international (PCT).

Bartolomeo Montrucchio has been involved into many national and international research projects, such as:

- 1999: Development of a high performance calculation model through PC clusters. Co-responsible of the project;
- 2000: IV Shopping: interface development for interactive virtual shops. Project participant;
- 2001-2002: Instruments and techniques for the development of distributed virtual shops (cofunded by the National Research Council). Project participant;
- 2001-2002: Elaborazione ad alte prestazioni per applicazioni con requisiti di elevata intensità computazionale e vincoli di tempo reale (cofunded by the University and Research Ministry). Project participant;
- 2002-2003: High quality secure and seamless document communication system (HIPSCAN IST 2000-29370, cofunded by the EU V Framework Programme). Project participant;
- 2004: Competence centre on Wireless Microsensor Systems (cofunded by the Piedmont regional DIADI 2000 initiative). Technical responsible;
- 2004: Analysis and development of a real time control and monitoring system for the prevention of fires (cofunded by the University and Research Ministry). Project participant;
- 2004: HELEN, the European LEarning Network (cofunded by the EU Leonardo Da Vinci Programme). The main aim of the project is to support the standardization of professional qualifications and competences in Europe. Member of the technical direction;
- 2004: VIM, a Virtual environment for experiencing Mathematics (cofunded by the EU Minerva Programme). The main aim of the project was to develop a virtual environment for Mathematics' didactic. Project coordinator;
- 2005: Progetto Tecniche di tracciabilità alimentare per la qualità basate su tecnologia RFID (cofunded by the Piedmont Region). The project intends to develop new RDIF techniques for the food traceability. Technical Coordinator;
- 2006: VET-TREND, Valorisation of an Experiment-based Training System through a Transnational Educational Network Development (Ref.RO06BFNT175014, cofunded by the EU Leonardo Da Vinci Programme). The aim is to foster different learning systems through an international network. Coordinator for Politecnico di Torino activities;
- 2007: Progetto Sistema di tracciabilità alimentare basato su tecnologie ICT a supporto di un marchio collettivo (cofunded by the Cassa di risparmio of Cuneo). Responsible of the project.
- 2008: Next MIRS Progetto per la produzione integrata di pneumatici per Alte prestazioni", joint research project Pirelli-Politecnico di Torino, funded from Regione Piemonte, coordinated for Politecnico from Prof. Riccardo Sisto; May 2008-January 2011 (responsible of part of the activities, for a total of 310.000 euro).
- 2008: Wireless sensors network for energy management in educational buildings (WiFi4Energy) - Research project funded by Regione Piemonte - (Scientific Coordinator: Prof.

Giovanni Fracastoro) (2008-2010). Project participant.

- 2009:Piattaforma Tecnologica Innovativa per l'Internet of Things - Project funded from Regione Piemonte - (Project Coordinator: Maurizio Griva [Santer Reply S.p.A.]) (2009-2012). Project participant.

- 2010: SAFE FOOD CONTROL: Sviluppo di Sistemi e Tecnologie Innovative per la produzione, conservazione, trasformazione e valorizzazione dell'ortofrutticola piemontese di qualità- Project funded by Regione Piemonte (2010-2013). Project Participant.

- 2007: NAMATECH: Nano -materials and -technologies for intelligent monitoring of safety, quality and traceability in confectionery products - Project funded from Regione Piemonte. Project participant.

In particular he was the project coordinator of the VIM Minerva European project in 2004, as previously reported.

Moreover, many collaborations with enterprises and national and international Universities have been carried out.

Publication List

Journals

Gandino, Filippo; Ferrero, Renato; Montrucchio, Bartolomeo; Rebaudengo, Maurizio (2016)
Fast Hierarchical Key Management Scheme with Transitory Master Key for Wireless Sensor Networks. In: IEEE INTERNET OF THINGS JOURNAL, vol. 3 n. 6, pp. 1334-1345. - ISSN 2327-4662
Web of Science: 0 - Scopus: 0

Velasco, A.D.; Montrucchio, B.; Rebaudengo, M. (2016)
KITO tool: A fault injection environment in Linux kernel data structures. In: MICROELECTRONICS RELIABILITY, vol. 60, pp. 153-162. - ISSN 0026-2714
Web of Science: 0 - Scopus: 0

Bartolomeo, Montrucchio; Renato, Ferrero (2016)
Toner savings based on quasi-random sequences and a perceptual study for green printing. In: IEEE TRANSACTIONS ON IMAGE PROCESSING, vol. 25 n. 6, pp. 2635-2646. - ISSN 1057-7149 [Disponibilità ristretta]
Web of Science: 0 - Scopus: 0

Velasco, Alejandro; Ferrero, Renato; Gandino, Filippo; Montrucchio, Bartolomeo; Rebaudengo, Maurizio (2016)
A mobile and low-cost system for environmental monitoring: a case study. In: SENSORS, vol. 16 n. 5, pp. 1-17. - ISSN 1424-8220
Web of Science: 1 - Scopus: 0

Umberto Lucia; Giuseppe Grazzini;Bartolomeo Montrucchio;Giulia Grisolia;Romano Borchellini;Gianpiero Gervino;Carlotta Castagnoli;Antonio Ponzetto;Francesca Silvagno (2015)
Constructal thermodynamics combined with infrared experiments to evaluate temperature differences in cells. In: SCIENTIFIC REPORTS, vol. 5 n. 11587, pp. 1-10. - ISSN 2045-2322
Web of Science: 7 - Scopus: 8

Montrucchio, Bartolomeo; Celozzi, Cesare; Cerutti, Paolo (2015)
Thresholds of Vision of the Human Visual System: Visual Adaptation for Monocular and Binocular Vision. In: IEEE TRANSACTIONS ON HUMAN-MACHINE SYSTEMS, vol. 45 n. 6, pp. 739-749. - ISSN 2168-2291 [Disponibilità ristretta]
Web of Science: 1 - Scopus: 2

Ferrero R.; Gandino F.; Montrucchio B.; Rebaudengo M. (2014)
Improving Colorwave with the probabilistic approach for reader-to-reader anti-collision TDMA protocols. In: WIRELESS NETWORKS, vol. 20 n. 3, pp. 397-409. - ISSN 1022-0038
Web of Science: 1 - Scopus: 2

F. Gandino; B. Montrucchio; M. Rebaudengo (2014)
Key Management for Static Wireless Sensor Networks With Node Adding. In: IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, vol. 10 n. 2, pp. 1133-1143. - ISSN 1551-3203
Web of Science: 9 - Scopus: 18

Lucia Umberto; Montrucchio B. (2014)
Thermodynamic approach to the analysis of cancer: temperature and external fields. In: PANMINERVA MEDICA, vol. 56 n. Supple, pp. 51-52. - ISSN 0031-0808

A. Carpinteri; G. Lacidogna; B. Montrucchio; S. Cammarano (2014)
The effect of the warping deformation on the structural behaviour of thin-walled open section shear walls. In: THIN-WALLED STRUCTURES, vol. 84, pp. 335-343. - ISSN 0263-8231 [Disponibilità ristretta]
Web of Science: 1 - Scopus: 1

- Filippo Gandino, Renato Ferrero, Bartolomeo Montrucchio, Maurizio Rebaudengo (2013)
DCNS: an Adaptable High Throughput RFID Reader-to-Reader Anti-collision Protocol. In: IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS, vol. 24 n. 5, pp. 893-905. - ISSN 1045-9219
- Omar Khan; Fiaz Khan; Carlo Ragusa; Bartolomeo Montrucchio (2013)
Review of Parallel and Distributed Architectures for Micromagnetic Codes. In: COMPEL, vol. 32 n. 6, pp. 1891-1900. - ISSN 0332-1649
- B. Jan, B. Montrucchio, C.S. Ragusa, F.G. Khan, O.U. Khan (2012)
Fast parallel sorting algorithms on GPUs. In: INTERNATIONAL JOURNAL OF DISTRIBUTED AND PARALLEL SYSTEMS, vol. 3, pp. 107-118. - ISSN 2229-3957
- Ferrero R., Gandino F., Montrucchio B., Rebaudengo M. (2012)
A fair and high throughput reader-to-reader anticollision protocol in dense RFID networks. In: IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, vol. 8 n. 3, pp. 697-706. - ISSN 1551-3203
Web of Science: 1 - Scopus: 2
- F. Gandino; R. Ferrero, B. Montrucchio; M. Rebaudengo (2011)
Probabilistic DCS: An RFID reader-to-reader anti-collision protocol. In: JOURNAL OF NETWORK AND COMPUTER APPLICATIONS, vol. 34 n. 3, pp. 821-832. - ISSN 1084-8045
Web of Science: 4 - Scopus: 12
- F. Gandino; B. Montrucchio; M. Rebaudengo (2010)
Tampering in RFID: A Survey on Risks and Defenses. In: JOURNAL ON SPECIAL TOPICS IN MOBILE NETWORKS AND APPLICATIONS, vol. 15 (4), pp. 502-516. - ISSN 1383-469X
Web of Science: 1 - Scopus: 1
- F. Gandino; B. Montrucchio; M. Rebaudengo; E.R. Sanchez (2009)
On Improving Automation by Integrating RFID in the Traceability Management of the Agri-Food Sector. In: IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, vol. 56(7), pp. 2357-2365. - ISSN 0278-0046
Web of Science: 12 - Scopus: 23
- F. Gandino; E.R. Sanchez; B. Montrucchio; M. Rebaudengo (2009)
Opportunity and Constraints for Wide Adoption of RFID in Agri-Food. In: INTERNATIONAL JOURNAL OF ADVANCED PERVASIVE AND UBIQUITOUS COMPUTING, vol. 1(2), pp. 49-67. - ISSN 1937-965X
- Sparavigna A.; A. Mello; B. Montrucchio (2008)
Growth of toric domains in mesophases of oxadiazoles. In: PHASE TRANSITIONS, vol. 81, pp. 471-477. - ISSN 0141-1594
Web of Science: 2 - Scopus: 1
- Sparavigna A; Mello A; Montrucchio B. (2007)
Fan-shaped, toric and spherulitic textures of mesomorphic oxadiazoles. In: PHASE TRANSITIONS, vol. 80, pp. 987-998. - ISSN 0141-1594
Web of Science: 4 - Scopus: 3
- Sparavigna A; Mello A; Montrucchio B. (2007)
Texture transitions in binary mixtures of 6OBAC with compounds of its homologous series. In: PHASE TRANSITIONS, vol. 80, pp. 191-201. - ISSN 0141-1594
Web of Science: 7 - Scopus: 5
- Lamberti F.; Montrucchio B; Sanna A (2006)
CMBFHE: a novel contrast enhancement technique based on cascaded multistep binomial filtering histogram equalization. In: IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol. 52 n. 3, pp. 966-974. - ISSN 0098-3063
Web of Science: 8 - Scopus: 12
- Sparavigna A.; Montrucchio B. (2006)
Performing Textile Fault Detection by Means of Texture Analysis. In: WSEAS TRANSACTIONS ON SIGNAL PROCESSING, vol. 2, pp. 541-548. - ISSN 1790-5052
- R.A. Wolf; Sparavigna A.; B. Montrucchio (2006)
RFID Label Converting: Quality Enhancement with Atmospheric Plasma Treatments. In: WSEAS TRANSACTIONS ON SYSTEMS, vol. 5, pp. 1988-1996. - ISSN 1109-2777
Scopus: 1
- Sparavigna A; Mello A; Montrucchio B. (2006)
Texture transitions in the liquid crystalline alkyloxybenzoic acid 6OBAC. In: PHASE TRANSITIONS, vol. 79, pp. 293-303. - ISSN 0141-1594
Web of Science: 11 - Scopus: 12
- Montrucchio B.; Quaglia D (2005)
New sorting-based lossless motion estimation algorithms and a partial distortion elimination performance analysis. In: IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, vol. 15-2, pp. 210-220. - ISSN 1051-8215
Web of Science: 38 - Scopus: 45
- Lamberti F.; Montrucchio B; Sanna A. (2004)

BBFHE: Block-based Binomial Filtering Histogram Equalization. In: WSEAS TRANSACTIONS ON INFORMATION SCIENCE AND APPLICATIONS, vol. 1, pp. 1591-1596. - ISSN 1790-0832

Lamberti F.; Gamba A.; Montrucchio B. (2004)
Computer-assisted analysis of in-vitro vasculogenesis and angiogenesis processes. In: JOURNAL OF WSCG, vol. 12:1-3, pp. 237-244. - ISSN 1213-6972

Quaglia Davide; Perga Massimo; Montrucchio B.; Montuschi Paolo (2004)
On New Sorting-Based Lossless Motion Estimation Algorithms. In: WSEAS TRANSACTIONS ON COMMUNICATIONS, vol. 3 n. 1, pp. 359-364. - ISSN 1109-2742

Lamberti F.; Montrucchio B.; Sanna A.; Zunino C. (2003)
A web-based architecture enabling multichannel telemedicine applications. In: JOURNAL OF SYSTEMICS, CYBERNETICS AND INFORMATICS, vol. 1. - ISSN 1690-4524

Montrucchio B.; Lamberti F.; Sanna A.; Montuschi P. (2002)
Measuring isotropic local contrast: a circular mask based approach. In: JOURNAL OF WSCG, vol. 10, pp. 83-90. - ISSN 1213-6972

Sanna A.; Montrucchio B. (2001)
3D technologies for e-commerce on the Web. In: SOFTWARE FOCUS, vol. 2, pp. 157-163. - ISSN 1529-7942

Sanna A.; Montrucchio B. (2001)
Ambienti Virtuali 3D. In: COMPUTER GAZETTE, vol. Anno XVI, No. 1, pp. 62-63. - ISSN 1123-4253

Montrucchio B.; Montuschi P.; Sanna A.; Sparavigna A. (2001)
Visualizing Vector Fields: the Thick Oriented Stream-Line Algorithm (TOSL). In: COMPUTERS & GRAPHICS, vol. 25 n. 5, pp. 847-855. - ISSN 0097-8493
Web of Science: 7 - Scopus: 7

Sanna A.; Montrucchio B.; Sparavigna A. (1999)
A Parallel Algorithm of Texture Analysis for Liquid Crystal Investigation. In: PATTERN RECOGNITION LETTERS, vol. 20, pp. 183-190. - ISSN 0167-8655
Web of Science: 1

Sparavigna A.; Sanna A.; Montrucchio B.; Strigazzi A. (1999)
Streamline Image Analysis: a new tool for investigating defects in nematic liquid crystals. In: LIQUID CRYSTALS, vol. 26-10, pp. 1467-1478. - ISSN 0267-8292
Web of Science: 4 - Scopus: 4

Montrucchio B.; Sparavigna A.; Strigazzi A. (1998)
A new image processing method for enhancing the detection sensitivity of smooth transitions in liquid crystals. In: LIQUID CRYSTALS, vol. 24-6, pp. 841-852. - ISSN 0267-8292
Web of Science: 26 - Scopus: 28

Montrucchio B.; Sparavigna A.; Torgova S.I.; Strigazzi A. (1998)
A novel order transition inside the nematic phase of trans -4-hexylcyclohexane-1-carboxylic acid discovered by image processing. In: LIQUID CRYSTALS, vol. 25-5, pp. 613-620. - ISSN 0267-8292
Web of Science: 17 - Scopus: 17

Sanna A.; Montuschi P.; Fisone A.; Montrucchio B. (1997)
A New Algorithm for the Rendering of CSG Scenes. In: COMPUTER JOURNAL, vol. 40 n. 9, pp. 555-564. - ISSN 0010-4620
Web of Science: 1 - Scopus: 1

Sanna A.; Montuschi P.; Montrucchio B. (1996)
A Parallel Algorithm for Image Rendering and Its Implementation. In: ELECTRONICS LETTERS, vol. 32 n. 14, pp. 1275-1277. - ISSN 0013-5194
Web of Science: 1

Book chapters

Gandino F., Sanchez E.R., Montrucchio B., Rebaudengo M. (2011)
New Perspectives on Adoption of RFID Technology for Agrifood Traceability. In: Emerging Pervasive and Ubiquitous Aspects of Information Systems: Cross-Disciplinary Advancements / Judith Symonds. IGI Global, Hershey, pp. 112-131. ISBN 9781609604875

Sanchez E.R.; Gandino F.; Montrucchio B.; Rebaudengo M. (2009)
Public-key in RFIDs: Appeal for Asymmetry. In: Security in RFID and sensor networks / ZHANG YAN; KITSOS PARIS. CRC Press, pp. 195-216. ISBN 9781420068405

Gandino F.; Sanchez E.R.; Montrucchio B.; Rebaudengo M. (2009)
RFID Technology for Agri-food Traceability Management. In: Auto-identification and Ubiquitous Computing Applications: Rfid and Smart Technologies for Information Convergence / JUDITH A. SYMONDS; DAVE PARRY; JOHN AYOADE. Information Science Publishing, HERSHEY, PA 17033, pp. 54-73. ISBN 9781605662985

Sparavigna A.; Mello A.; Montrucchio B. (2000)
Pattern recognition in the microscopy of liquid crystals: Description, comparison and choice. In: Recent Research Development in Pattern Recognition / PANDALAI S.G. TRANSWORLD RESEARCH NETWORK, pp. 29-40. ISBN 8186846611

Sanna A; Montrucchio B.; Montuschi P (2000)
A survey on visualization of vector fields by texture-based methods. In: RECENT RESEARCH DEVELOPMENT IN PATTERN RECOGNITION / PANDALAI S.G. TRANSWORLD RESEARCH NETWORK, pp. 13-27. ISBN 8186846611

Conferences

Hemmatpour, Masoud; Ferrero, Renato; Montrucchio, Bartolomeo; Rebaudengo, Maurizio (2016)
Analysis and optimization of Synchronization Algorithms for Multicore Architectures. In: 1st International Workshop on Resilience in Nanoelectronics Systems (RENS'16), Tallin, Estonia, September 28-29 2016.

Lacidogna, G.; Invernizzi, S.; Montrucchio, B.; Borla, O.; Carpinteri, A. (2016)
Analysis of High-Frequency Vibrational Modes Through Laser Pulses. In: Annual Conference on Experimental and Applied Mechanics (SEM), Hilton Orange County, Costa Mesa, CA USA, June 8-11, 2015. pp. 93-104
[Disponibilità ristretta]
Web of Science: 0 - Scopus: 0

Hemmatpour, Masoud; Ferrero, Renato; Montrucchio, Bartolomeo; Rebaudengo, Maurizio (2016)
Eigenwalk: a Novel Feature for Walk Classification and Fall Prediction. In: 11th International Conference on Body Area Networks, Torino, December 15-16, 2016.

Carpinteri, A.; Lacidogna, G.; Tulliani, J.M.; Montrucchio, B.; Invernizzi S. (2016)
Energy emissions from resonant cylindrical samples subjected to ultrasound vibrations. In: 17th International Conference on Experimental Mechanics (ICEM 17) July 3-7, 2016, Rhodes, Greece, Rhodes, Greece, July 3-7, 2016. pp. 1-2

Ferrero, Renato; Gandino, Filippo; Hemmatpour, Masoud; Montrucchio, Bartolomeo; Rebaudengo, Maurizio (2016)
Exploiting accelerometers to estimate displacement. In: 5th Mediterranean Conference on Embedded Computing (MECO-2016), Bar (Montenegro), 12-16 giugno 2016.
Web of Science: 0 - Scopus: 0

Hemmatpour, Masoud; Montrucchio, Bartolomeo; Rebaudengo, Maurizio; Mohammad Sadoghi (2016)
Kanzi: A Distributed, In-memory Key-Value Store. In: Middleware 2016, Trento, December 12-16, 2016.
Scopus: 0

Carpinteri, A.; Lacidogna, G.; Montrucchio, B.; Piana, G.; Bassani, A. (2016)
Terahertz vibrations in compressed solids and biological materials. In: 17th International Conference on Experimental Mechanics (ICEM 17) July 3-7, 2016, Rhodes, Greece, Rhodes, Greece, July 3-7, 2016. pp. 1-2

Hemmatpour, Masoud; Ferrero, Renato; Montrucchio, Bartolomeo; Rebaudengo, Maurizio (2016)
baseline walking dataset exploiting accelerometer and gyroscope for fall prediction and prevention systems. In: 11th International Conference on Body Area Networks, Torino, December 15-16, 2016.

Masoud, Hemmatpour; Ferrero, Renato; Montrucchio, Bartolomeo; Rebaudengo, Maurizio (2016)
A neural network model based on co-occurrence matrix for fall prediction. In: International Conference on Wireless Mobile Communication and Healthcare, MILANO, NOVEMBER 14-16, 2016.

S. Cammarano; G. Lacidogna; B. Montrucchio; A. Carpinteri (2015)
Experimental Evaluation of the Warping Deformation in Thin-Walled Open Section Profiles. In: Proceedings of the 2014 Annual Conference on Experimental and Applied Mechanics (SEM), Greenville, SC, USA, June 2-5, 2014. pp. 231-242
Web of Science: 0

Ferrero, Renato; Gandino, Filippo; Montrucchio, Bartolomeo; Rebaudengo, Maurizio (2015)
Experimental Investigation on the Interference between UHF RFID and GSM. In: EURASIP RFID 2015 Workshop, Rosenheim (Germany), 22-23 Ottobre 2015.
Web of Science: 0 - Scopus: 0

G. Lacidogna, B. Montrucchio, O. Borla, A. Carpinteri (2015)
High-Frequency Resonance Phenomena in Materials Subjected to Mechanical Stress. In: Proceedings of the 2014 Annual Conference on Experimental and Applied Mechanics (SEM), Greenville, SC, USA, June 2-5, 2014. pp. 211-220
Scopus: 0

Ferrero R.; Gandino F.; Montrucchio B.; Rebaudengo M.; Velasco A.; Benkhelifa I. (2015)
On gait recognition with smartphone accelerometer. In: 4th Mediterranean Conference on Embedded Computing (MECO-2015), Budva (Montenegro), 14-18 Giugno 2015. pp. 368-373 [Disponibilità ristretta]
Web of Science: 0 - Scopus: 1

Velasco A.; Ferrero R.; Gandino F.; Montrucchio B.; Rebaudengo M. (2015)
On the design of distributed air quality monitoring systems. In: 11th International Conference of Computational Methods in Sciences and Engineering (ICCMSE 2015), Atene (Grecia), 20-23 Marzo 2015.
Web of Science: 0 - Scopus: 2

Ferrero, Renato; Gandino, Filippo; Montrucchio, Bartolomeo; Rebaudengo, Maurizio; Zhang, Linchao (2015)
A novel simulator for RFID reader-to-reader anti-collision protocols. In: EURASIP RFID 2015 Workshop, Rosenheim (Germany), 22-23 Ottobre 2015.
Web of Science: 0 - Scopus: 0

Bartolomeo Montrucchio, Maurizio Rebaudengo, Alejandro David Velasco (2014)
Fault Injection in the Process Descriptor of a Unix-based Operating System. In: IEEE International Symposium on Defect and Fault Tolerance in VLSI and Nanotechnology Systems, Amsterdam (NL), 1-3 October 2014. pp. 1-6

Scopus: 0

O. Khan, B. Jan, C. Ragusa, A. Rahim, F. Khan, B. Montrucchio (2014)
Optimization of a Mult-Dimensional FFT Library for Accelerating Magnetostatic Field Computations. In: 10th European Conference on Magnetic Sensors and Actuators, Vienna, Austria, July 6-9, 2014. p. 250

Bartolomeo Montrucchio; Maurizio Rebaudengo; Alejandro David Velasco (2014)
Software-implemented Fault Injection in Operating System Kernel Mutex Data Structure. In: 5th IEEE Latin American Symposium on Circuits and Systems, Santiago, Chile, February 25 - 28, 2014. pp. 1-6
Web of Science: 0 - Scopus: 0

Renato Ferrero; Bartolomeo Montrucchio; Lorenzo David; Kargar Ebrahim; Luca Graglia; Giovanni Di Dio Iovino; Marco Ribero (2014)
A comparison of graphics processor architectures for RFID simulation. In: The 17th International Conference on Network-Based Information Systems (NBIS-2014), Salerno (Italia), 10-12 Settembre 2014. pp. 8-14
Web of Science: 0 - Scopus: 0

A.C. Carlini; P.D. Rosa; B. Montrucchio; I. Cenci; F. Claudio; G. Luongo; J. Spigaroli; G. Gini (2013)
Defining new structural and mobile support to improve hospital facilities access and usability. In: 2nd International Symposium on Foundations of Health Information Engineering and Systems, FHIES 2012, Paris (FR), 27-28 August 2012. pp. 55-71 [Disponibilità ristretta]
Web of Science: 0 - Scopus: 0

B. Jan, B. Montrucchio, C. Ragusa, F. Khan, O. Khan (2013)
Parallel butterfly sorting algorithm on GPU. In: 11th IASTED International Conference on Parallel and Distributed Computing and Networks, PDCN 2013; Innsbruck; Austria; 11 February 2013 through 13 February 2013; Code 96246; Innsbruck; Austria, 11 February 2013 through 13 February 2013. pp. 544-551
Scopus: 0

Omar Khan; Carlo Ragusa; Fiaz Khan; Bartolomeo Montrucchio (2013)
A Mutual Demagnetizing Tensor for N-Body Magnetic Field Modeling. In: IEEE TRANSACTIONS ON MAGNETICS, vol. 49 n. 7, pp. 3179-3182. - ISSN 0018-9464

Montrucchio B. (2013)
Perceptual comparison of demosaicing algorithms and in-camera demosaicing with JPEG compression. In: VISAPP 2013, Barcellona, 21-24 February 2013. pp. 130-133

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Adaptive fuzzy-MAC for power reduction in wireless sensor networks. In: New Technologies, Mobility and Security (NTMS), 2011 4th IFIP International Conference on, Paris (France), 7-10 Feb. 2011. pp. 1-5

Fiaz Gul Khan, Omar Usman Khan, Bartolomeo Montrucchio, Paolo Giaccone (2011)
Analysis of Fast Parallel Sorting Algorithms for GPU Architectures. In: 9th International Conference on Frontiers of Information Technology, Islamabad (Pakistan), 19-21 December 2011. pp. 173-178

Sanchez E.R., Murillo L.M., Montrucchio B., Rebaudengo M. (2011)
Efficient energy-aware routing for sensor networks. In: 2nd IEEE Latin American Symposium on Circuits and Systems (LASCAS), Bogota (Colombia), 23-25 Feb., 2011. pp. 1-4

Gandino F., Ferrero R., Montrucchio B., Rebaudengo M. (2011)
Increasing Throughput in RFID Multi-Reader Environments Avoiding Reader-to-Reader Collisions. In: 2011 IEEE International Conference on Consumer Electronics (ICCE), Las Vegas, 9-12 Gennaio 2011. pp. 37-38

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