



# Emanuele Lattanzi

*Curriculum Vitae et Studiorum*

## Degrees / Higher Education

2005: **PhD**, *University of Urbino*, Urbino, Italy.

2001: **Laurea (Summa cum Laude)**, *University of Urbino*, Urbino, Italy.

## Appointments

- 2020-current **Associate Professor in Computer Science and Engineering**, *University of Urbino*, Urbino, Italy.
- 2008-2020 **Assistant Professor in Computer Science and Engineering**, *University of Urbino*, Urbino, Italy.
- 2004-2008 **Research Fellows in Computer Science and Engineering**, *University of Urbino*, Urbino, Italy.
- 2004 **Visiting Student**, *Department of Computer Science and Engineering*, Pennsylvania State University, University Park - PA.

## Main Research Area

- Wireless Sensor Networks
  - Design of hardware-software platforms
  - Power and energy optimization
  - Power and energy aware routing protocols
  - Energy harvesting
- Embedded Systems
  - Performance optimization
  - Design of real-time operating system
- Multimedia Databases
  - Content-based image indexing and retrieval
  - Efficient data structure

## Research and Cooperation Projects

- 2019 - present **Development of a postural stability monitoring system via smartphone for the prevention of falls in the elderly, DDPF n. 1189 del 17/07/2019 - Regione Marche**, Role: Project Director, Scientific Coordinator.
- 2016 - 2018 **Your Life is a Show, POR-FESR 2014-2020 - Regione Emilia Romagna**, Role: Project partner.
- 2016 - 2019 **CROWD sensing and ride sharing FOR ROAD Sustainability, H2020-ICT-2015 - grantagreement No 687959**, Role: Key person.
- 2012 - present **VirtualSense: Open-Hardware Ultra-Low-Power Wireless Sensor Node**, Role: Project Director, Scientific Coordinator.
- 2010 - 2013 **ULoop: User-centric Wireless Local Loop, FP7 gr nr. 257418**, Role: Project partner.
- 2003 - 2004 **Methodologies for the Development and the Verification of Distributed Applications on Wireless Mobile Terminals, CIPE 2003 - Regione Marche**, Role: Project partner.
- 2002 - 2003 **Improvement of the quality of the life of the elderly, of the Marche Region, through the use of methodologies and innovative equipments with particular reference to the physical activity, CIPE 2002 - Regione Marche**, Role: Project partner.

## Honors and Awards

- 2015 **Best Paper Award - UBICOMM 2015, The Ninth International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies**, Paper: "Efficient Algorithms for Accuracy Improvement in Mobile Crowdsensing Vehicular Applications".
- 2011 **Best Paper Award - AFIN 2011, International Conference on Advances in Future Internet**, Paper: "Making an Android Tablet Work as a Set-Top Box".

## Professional Activities

### Journals editorial boards

- 2017 - present **Associate Editor, IEEE Access**, ISSN: 2169-3536.  
[WoS: Q1; SJR: Q1; IF: 4.098] - <http://ieeeaccess.ieee.org/>
- 2020 - 2021 **Guest Editor, Special issue: "Green Wireless Sensor Network" - Journal of Sensor and Actuator Networks**, ISSN 2224-2708.  
[WoS: Q2; SJR: Q2] - <https://www.mdpi.com/journal/jsan>
- 2017 - 2018 **Guest Editor, Special issue: "Ubiquitous Massive Sensing Using Smartphones"- Sensors**, ISSN: 1424-8220.  
[WoS: Q1; SJR: Q2; IF: 3.031] - <http://www.mdpi.com/journal/sensors>

Member of Program Committee

- 2004 **The International Conference on Embedded and Ubiquitous Computing**,  
*Aizu-Wakamatsu City, Japan.*

Member of Local Committee

- 2005 **SCCB2005 - The First School on Computational Cell Biology**, *The role of stochasticity in the modelling and simulation of biological processes*, Urbino, Italy.
- 2005 **SFM2005 - School on Formal Methods for the Design of Computer, Communication, and Software Systems**, *Bertinoro*, Italy.

Conference Speaker

- August 2012 **Presents [52]**, at *The Sixth International Conference on Sensor Technologies and Applications*, SENSORCOMM-2012, Rome.  
Italy

- April 2005 **Presents [38]**, at *the 5th International School on Formal Methods for the Design of Computer, Communication and Software Systems: Mobile Computing*, Bertinoro.  
Italy

- October 2004 **Presents [64]**, at *the Second ACM International Workshop on Wireless Mobile Applications and Services on WLAN Hotspots*, WMASH, Philadelphia.  
USA

- September 2004 **Presents [66]**, at *the 14th International Workshop on Power and Timing Modeling, Optimization and Simulation*, PATMOS, Santorini.  
Greece

- September 2003 **Presents [68]**, at *the WSEAS International Conference on Multimedia, Internet and Video Technologies*, WSEAS ICOMIV, Creta.  
Greece

- September 2003 **Presents [69]**, at *the WSEAS International Conference on Simulation, Modelling and Optimization*, WSEAS ICOSMO, Creta.  
Greece

Peer Reviewer activity

- 2017 **Sensors**.
- 2017 **Wireless Personal Communications**.
- 2017 **IEEE Transactions on Industrial Informatics**.
- 2016 **IEEE Access**.
- 2016 **Ad Hoc Networks**.
- 2014 **Wireless Networks (WINE)**.
- 2014 **Energy Efficiency (ENEF)**.
- 2013 **International Journal of Distributed Sensor Networks (IJDSN)**.
- 2012 **International Journal of Wireless and Mobile Computing (IJWMC)**.

- 2011 **Transactions on Embedded Computing Systems.**
- 2008 **IEEE Transactions on Mobile Computing (TMC).**
- 2005 **IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD).**
- 2004 **Design Automation and Test in Europe Conference (DATE).**

## Teaching Activity

2006 - present **Supervised 45 Applied Computer Science Degree Theses**, University of Urbino, *Applied Computer Science Degree.*

### Given Courses

- 2008 - present **Operating Systems**, University of Urbino, *Applied Computer Science Degree.*
- 2011 - 2013 **Neural Networks**, University of Urbino, *PHD on Complexity Science.*
- 2004 - 2008 **Applied Informatics**, University of Urbino, *Motor Science Degree.*
- 2004 - 2010 **Multimedia Information Systems**, University of Urbino, *Applied Computer Science Degree.*
- 2004 - 2006 **Programming Languages**, Private company.

## Full Publications

More than 1000 total citations

H-index=18 (google scholar)

### Journals

- [1] E. Lattanzi and V. Freschi, "Machine learning techniques to identify unsafe driving behavior by means of in-vehicle sensor data," *Expert Systems with Applications*, vol. 176, p. 114818, 2021, [WoS: Q1, SJR: Q1, IF: 5.452].
- [2] V. Freschi and E. Lattanzi, "A prim-dijkstra algorithm for multi-hop calibration of networked embedded systems," *IEEE Internet of Things Journal*, pp. 1–9, 2021, [WoS: Q1, SJR: Q1, IF: 9.936].
- [3] E. Lattanzi and V. Freschi, "Evaluation of human standing balance using wearable inertial sensors: A machine learning approach," *Engineering Applications of Artificial Intelligence*, vol. 94, p. 103812, 2020, [WoS: Q1, SJR: Q1, IF: 4.201].
- [4] E. Lattanzi, V. Freschi, S. Delpriori, L. C. Klopfenstein, and A. Bogliolo, "Standing balance assessment by measurement of body center of gravity using smartphones," *IEEE Access*, vol. 8, pp. 96 438–96 448, 2020, [WoS: Q1, SJR: Q1, IF: 4.098].
- [5] E. Lattanzi, P. Capellacci, and V. Freschi, "Experimental evaluation of the impact

of packet length on wireless sensor networks subject to interference," *Computer Networks*, vol. 167, p. 106986, 2020, [WoS: Q1, SJR: Q1, IF: 3.030].

- [6] V. Freschi and E. Lattanzi, "On the stability of a hardware compensation mechanism for embedded energy harvesting emulators," *Computers*, vol. 8, no. 4, p. 78, 2019, [SJR: Q3].
- [7] E. Lattanzi and V. Freschi, "In-band controllable radio interference generation for wireless sensor networks," *IEEE Access*, vol. 7, pp. 66 955–66 963, 2019, [WoS: Q1, SJR: Q1, IF: 4.098].
- [8] V. Freschi and E. Lattanzi, "A study on the impact of packet length on communication in low power wireless sensor networks under interference," *IEEE Internet of Things Journal*, vol. 6, no. 2, pp. 3820–3830, April 2019, [Wos: Q1, SJR: Q1, IF: 9.515].
- [9] E. Lattanzi and V. Freschi, "A hardware compensation mechanism for embedded energy harvesting emulation," *IEEE Embedded Systems Letters*, vol. 11, no. 1, pp. 25–28, March 2018, [SJR: Q2].
- [10] E. Lattanzi, M. Dromedari, and V. Freschi, "A scalable multitasking wireless sensor network testbed for monitoring indoor human comfort," *IEEE Access*, vol. 6, no. 1, pp. 17 952–17 967, 2018, [WoS: Q1, SJR: Q1, IF: 4.098].
- [11] V. Freschi, E. Lattanzi, and A. Bogliolo, "Fast distributed consensus through path averaging on random walks," *Wireless Personal Communications*, vol. 96, no. 4, pp. 5865–5879, 2017, [WoS: Q4, SJR: Q2, IF: 0.951].
- [12] E. Lattanzi, M. Dromedari, V. Freschi, and A. Bogliolo, "Tuning the complexity of photovoltaic array models to meet real-time constraints of embedded energy emulators," *Energies*, vol. 10, no. 3, pp. 1–17, 2017, [WoS: Q2, SJR: Q1, IF: 2.262].
- [13] G. Alessandroni, A. Carini, E. Lattanzi, V. Freschi, and A. Bogliolo, "A study on the influence of speed on road roughness sensing: the smartroadsense case," *SENSORS*, vol. 17, pp. 1–20, 2017, [WoS: Q2, SJR: Q2, IF: 2.677].
- [14] E. Lattanzi, V. Freschi, M. Dromedari, L. S. Lorello, R. Peruzzini, and A. Bogliolo, "A fast and accurate energy source emulator for wireless sensor networks," *EURASIP Journal on Embedded Systems*, vol. 2016, no. 1, p. 18, 2017, [SJR: Q3].
- [15] V. Freschi, S. Delpriori, E. Lattanzi, and A. Bogliolo, "Bootstrap based uncertainty propagation for data quality estimation in crowdsensing systems," *IEEE Access*, vol. 5, pp. 1146–1155, 2017, [WoS: Q1, SJR: Q1, IF: 3.244].
- [16] U. Raza, A. Bogliolo, V. Freschi, E. Lattanzi, and A. L. Murphy, "A two-prong approach to energy-efficient wsns: Wake-up receivers plus dedicated, model-based sensing," *Ad Hoc Networks*, vol. 45, pp. 1–12, 2016, [WoS: Q2, SJR: Q1, IF: 3.047].

- [17] E. Lattanzi, V. Freschi, M. Dromedari, and A. Bogliolo, "An acoustic complexity index sensor for underwater applications," *IEEE Sensors Journal*, vol. 16, no. 11, pp. 4043–4050, 2016, [WoS: Q2, SJR: Q1, IF: 2.512].
- [18] A. Farina, M. Ceraulo, C. Bobryk, N. Pieretti, E. Quinci, and E. Lattanzi, "Spatial and temporal variation of bird dawn chorus and successive acoustic morning activity in a mediterranean landscape," *Bioacoustics*, vol. 24, pp. 269–288, 2015, [WoS: Q2, SJR: Q2, IF: 1.364].
- [19] V. Freschi, E. Lattanzi, and A. Bogliolo, "Randomized gossip with power of two choices for energy aware distributed averaging," *IEEE Communication Letters*, vol. 19, no. 8, pp. 1410–1413, 2015, [WoS: Q2, SJR: Q1, IF: 1.291].
- [20] E. Lattanzi and A. Bogliolo, "Hardware filtering of non-intended frames for energy optimisation in wireless sensor networks," *International Journal of Sensor Networks*, vol. 15, no. 2, pp. 121–129, 2014, [WoS: Q4, SJR: Q3, IF: 0.920].
- [21] A. Farina, P. James, C. Bobryk, N. Pieretti, E. Lattanzi, and J. Mcwilliam, "Low cost (audio) recording (lcr) for advancing soundscape ecology towards the conservation of sonic complexity and biodiversity in natural and urban landscapes," *Urban Ecosystems*, vol. 17, no. 4, pp. 923–944, 2014, [WoS: Q2, SJR: Q1, IF: 2.685].
- [22] E. Lattanzi, V. Freschi, and A. Bogliolo, "Supporting preemptive multitasking in wireless sensor networks," *International Journal of Distributed Sensor Networks*, vol. 2014, pp. 1–10, 2014, [WoS: Q3, SJR: Q2, IF: 0.665].
- [23] E. Lattanzi, M. Dromedari, V. Freschi, and A. Bogliolo, "A sub- $\mu$  ultrasonic wake-up trigger with addressing capability for wireless sensor nodes," *ISRN Sensor Networks*, vol. 2013, pp. 1–11, 2013.
- [24] E. Lattanzi and A. Bogliolo, "Virtualsense: A java-based open platform for ultra-low-power wireless sensor nodes," *International Journal of Distributed Sensor Networks*, vol. 2012, pp. 1–17, 2012, [WoS: Q3, SJR: Q3, IF: 0.727].
- [25] L. Klopfenstein, S. Delpriori, G. Luchetti, A. Seraghiti, E. Lattanzi, and A. Bogliolo, "Introducing openboxware for android: The convergence between mobile devices and set-top boxes," *International Journal on Advances in Internet Technology*, vol. 5, pp. 44–53, 2012.
- [26] A. Bogliolo, S. Delpriori, E. Lattanzi, and A. Seraghiti, "Self adapting maximum flow routing for autonomous wireless sensor networks," *Cluster Computing*, vol. 14, pp. 1–14, 2011, [WoS: Q3, SJR: Q3, IF: 0.519].
- [27] A. Farina, E. Lattanzi, R. Malavasi, N. Pieretti, and L. Piccioli, "Avian soundscapes and cognitive landscapes: theory, application and ecological perspectives," *Landscape Ecology*, vol. 26, pp. 1257–1267, 2011, [WoS: Q2, SJR: Q1, IF: 3.061].
- [28] E. Lattanzi, E. Regini, A. Acquaviva, and A. Bogliolo, "Energetic sustainability of routing algorithms for energy-harvesting wireless sensor networks," *Computer Communications*, vol. 30, pp. 2976–2986, 2007, [WoS: Q3, SJR: Q2, IF: 0.391].

- [29] A. Acquaviva, E. Lattanzi, and A. Bogliolo, "Power-aware network swapping for wireless palmtop pcs," *IEEE Transactions on Mobile Computing*, vol. 5, pp. 571–582, 2006, [WoS: Q1, SJR: Q1, IF:2.550].
- [30] E. Lattanzi, A. Gayasen, M. Kandemir, V. Narayanan, L. Benini, and A. Bogliolo, "Improving java performance by dynamic method migration on fpgas," *International Journal of Embedded Systems*, vol. 1, pp. 228–236, 2005, [SJR: Q4].
- [31] A. Bogliolo, L. Benini, E. Lattanzi, and G. De Micheli, "Specification and analysis of power-managed systems," *Proceedings of the IEEE*, vol. 92, pp. 1308–1346, 2004, [WoS: Q1, SJR: Q1, IF: 3.336].
- [32] E. Lattanzi, A. Acquaviva, L. Benini, and A. Bogliolo, "Exploring coprocessor interfaces in an embedded java environment," *WSEAS Transactions on Computers*, vol. 2, pp. 859–867, 2003, [SJR: Q4].
- [33] A. Acquaviva, E. Lattanzi, L. Benini, and A. Bogliolo, "Dynamic power management of streaming applications over a wireless lan," *WSEAS Transactions on Communications*, vol. 2, pp. 235–242, 2003, [SJR: Q3].

#### Patents

- [34] E. Lattanzi, M. Dromedari, A. Bogliolo, and V. Freschi, "Device for emulating energy sources used to power embedded systems/devices," Patent IT102017000148547, 12 21, 2017.

#### Book chapters

- [35] E. Lattanzi and A. Bogliolo, *WSN Design for Unlimited Lifetime*, Y. K. Tan, Ed. InTech, 2011.
- [36] A. Acquaviva, A. Aldini, M. Bernardo, A. Bogliolo, E. Bontà, and E. Lattanzi, *A Methodology Based on Formal Methods for Predicting the Impact of Dynamic Power Management*. Springer, 2005, vol. LNCS 3465.
- [37] A. Acquaviva, E. Bontà, and E. Lattanzi, *Dynamic Power Management Strategies Within the IEEE 802.11 Standard*. Berlin: Springer, 2005, vol. LNCS 3465.
- [38] E. Lattanzi, A. Acquaviva, and A. Bogliolo, *Network Swapping*. Springer, 2005, vol. LNCS 3465.
- [39] A. Acquaviva, E. Lattanzi, and A. Bogliolo, *Power-Aware Network Swapping for Wireless Palmtop PCs*, M. E., Ed. Springer, 2004.
- [40] E. Lattanzi, L. Benini, and A. Bogliolo, *Portable Instrumentation and Profiling for Java Bytecode*, N. MASTORAKIS, Ed., 2003.

#### Conferences

- [41] V. Freschi, E. Lattanzi, and A. Bogliolo, "Accelerating distributed averaging in sensor networks: Randomized gossip over virtual coordinates," in *Proceedings of IEEE Sensors Applications Symposium, SAS 2016*. IEEE, 2016, pp. 367–372.

- [42] G. Alessandroni, A. Carini, E. Lattanzi, and A. Bogliolo, "Sensing road roughness via mobile devices: a study on speed influence," in *9th International Symposium on Image and Signal Processing and Analysis (ISPA 2015)*. IEEE, 2015.
- [43] S. Delpriori, V. Freschi, E. Lattanzi, and A. Bogliolo, "Efficient algorithms for accuracy improvement in mobile crowdsensing vehicular applications," in *Proceedings of the Ninth International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies, UBICOMM 2015*. IARIA, 2015, pp. 145–150.
- [44] G. Alessandroni, A. Bogliolo, A. Carini, S. Delpriori, V. Freschi, L. Klopfenstein, E. Lattanzi, G. Luchetti, B. Paolini, and A. Seraghiti, "Demo: Mobile crowdsensing of road surface roughness," in *Proceedings of the 13th Annual International Conference on Mobile Systems, Applications, and Services, MobiSys '15*. ACM, 2015, pp. 439–439.
- [45] V. Freschi, S. Delpriori, K. L. Klopfenstein, E. Lattanzi, G. Luchetti, and A. Bogliolo, "Geospatial data aggregation and reduction in vehicular sensing applications: the case of road surface monitoring," in *Proceedings of the 3rd IEEE International Conference on Connected Vehicles & Expo (ICCVE 2014)*. IEEE, 2014, pp. 711–716.
- [46] G. Alessandroni, L. C. Klopfenstein, S. Delpriori, M. Dromedari, G. Luchetti, B. D. Paolini, A. Seraghiti, E. Lattanzi, V. Freschi, A. Carini *et al.*, "Smartroadsense: Collaborative road surface condition monitoring," in *UBICOMM 2014, The Eighth International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies*, 2014, pp. 210–215.
- [47] A. Bogliolo, V. Freschi, E. Lattanzi, A. L. Murphy, and U. Raza, "Towards a true energetically sustainable wsn: A case study with prediction-based data collection and a wake-up receiver," in *Industrial Embedded Systems (SIES), 2014 9th IEEE International Symposium on*. IEEE, 2014, pp. 21–28.
- [48] A. Bogliolo, E. Lattanzi, and V. Freschi, "Idleness as a resource in energy-neutral wsns," in *Proceedings of the 1st International Workshop on Energy Neutral Sensing Systems*, ser. ENSSys '13. New York, NY, USA: ACM, 2013, pp. 12:1–12:6. [Online]. Available: <http://doi.acm.org/10.1145/2534208.2534214>
- [49] V. Freschi, E. Lattanzi, and A. Bogliolo, "A statistical geometry approach to distance estimation in wireless sensor networks," in *Communications Workshops (ICC), 2013 IEEE International Conference on*, June 2013, pp. 11–15.
- [50] E. Lattanzi, M. Dromedari, V. Freschi, A. Seraghiti, and A. Bogliolo, "Exploiting ultra-low-power ultrasonic wake-up triggering for sensor nodes distance measurements," in *Proceedings of the 11th ACM Conference on Embedded Networked Sensor Systems*, ser. SenSys '13. New York, NY, USA: ACM, 2013, pp. 61:1–61:2. [Online]. Available: <http://doi.acm.org/10.1145/2517351.2517375>
- [51] E. Lattanzi and A. Bogliolo, "Ultra-low-power sensor nodes featuring a virtual runtime environment," in *Communications (ICC), 2012 IEEE International Conference on*, June 2012, pp. 5731–5735.

- [52] ——, “A java library for event-driven communicationin power-manageable reactive sensor nodes,” in *Proceedings of NetWare 2012*. IARIA, 2012.
- [53] L. Klopfenstein, S. Delpriori, G. Luchetti, E. Lattanzi, and A. Bogliolo, “Making an android tablet work as a set-top box,” in *International Conference on Advances in Future Internet*. IARIA, 2011, pp. 64–68.
- [54] E. Pigliapoco and E. Lattanzi, “A computer-aided methodology for direct and indirect monitoring of the learning process,” in *International Conference on Computer Supported Education*. Cordeiro, José A. Moinhos and Shishkov, Boris and Verbraeck, Alexander and Helfert, Markus, 2009, pp. 33–40.
- [55] F. Lucertini, D. Centonze, E. Lattanzi, M. Rinaldi, F. De Lillo, M. Valentini, and A. Federici, “Quantitative vs. qualitative analysis of balance in pre-pubertal children,” in *Comunicazioni orali e poster*, 3 Ottobre 2009 2009, pp. 29–30.
- [56] A. Seraghiti, S. Delpriori, E. Lattanzi, and A. Bogliolo, “Self-adapting maxflow routing algorithms: Practical issues and simulation-based assessment,” in *Proceedings of the 5th international conference on Soft computing as transdisciplinary science and technology*. IEEE, 2008, pp. 688–693.
- [57] L. Klopfenstein, E. Lattanzi, and A. Bogliolo, “Implementing energetically sustainable routing algorithms for autonomous wsns,” in *Proceedings of International Symposium on a World of Wireless, Mobile and Multimedia Networks*. IEEE, 2007, pp. 1–6.
- [58] A. Bogliolo, E. Lattanzi, and A. Acquaviva, “Energetic sustainability of environmentally powered wireless sensor networks,” in *Proceedings of the 3rd ACM international workshop on Performance evaluation of wireless ad hoc, sensor and ubiquitous networks*. ACM, 2006, pp. 149–152.
- [59] E. Lattanzi and A. Bogliolo, “An experimental setup for assessing the power closure of energy harvesting systems,” in *Proceedings of the Instrumentation and Measurement Technology Conference*. IEEE, 2006, pp. 600–605.
- [60] M. Bernardo, A. Bogliolo, A. Acquaviva, A. Aldini, E. Bontà, and E. Lattanzi, “Predicting the functional/performance impact of dynamic power management,” in *Proc. of the 7th Int. Workshop on Performability Modeling of Computer and Communication Systems (PMCCS 7)*, 2005, pp. 10–13.
- [61] E. Lattanzi, A. Gayasen, M. Kandemir, V. Narayanan, L. Benini, and A. Bogliolo, “Improving java performance by dynamic method migration on fpgas,” in *Proceedings of the 18th International Parallel and Distributed Processing Symposium*. IEEE, 2004.
- [62] A. Acquaviva, A. Aldini, M. Bernardo, A. Bogliolo, E. Bontà, and E. Lattanzi, “Assessing the impact of dynamic power management on the functionality and the performance of battery-powered appliances,” in *Proc. of the 5th IEEE/IFIP Int. Conf. on Dependable Systems and Networks (DSN 2004)*. IEEE-CS Press, 2004, pp. 731–740.

- [63] S. Kim J., C. Nicopoulos, , V. Narayanan, Y. XIE, and E. Lattanzi, "A probabilistic model for soft-error rate estimation in combinational logic," in *Proceedings of the 1st International Workshop on Probabilistic Analysis Techniques for Real Time and Embedded Systems*, 2004.
- [64] E. Lattanzi, A. Acquaviva, and A. Bogliolo, "Proximity services supporting network virtual memory in mobile devices," in *Proceedings of The Second ACM International Workshop on Wireless Mobile Applications and Services on WLAN Hotspots*. ACM, 2004.
- [65] A. Acquaviva, E. Lattanzi, and A. Bogliolo, "Design and simulation of power-aware scheduling strategies of streaming data in wireless lans," in *Proceedings of the Seventh ACM/IEEE International Symposium on Modeling, Analysis and Simulation of Wireless and Mobile Systems*. ACM, 2004, pp. 39–46.
- [66] E. Lattanzi, A. Acquaviva, and A. Bogliolo, "Run-time software monitor of the power consumption of wireless network interface cards," in *Proceedings of the 14th International Workshop on Power and Timing Modeling, Optimization and Simulation*, 2004, pp. 352–361.
- [67] A. Acquaviva, E. Lattanzi, and A. Bogliolo, "Power-aware network swapping for wireless palmtop pcs," in *Proceedings of the IEEE Design Automation and Test in Europe Conference*. IEEE, 2004.
- [68] E. Lattanzi, L. Benini, and A. Bogliolo, "Portable instrumentation and profiling of java bytecode," in *Proceedings of WSEAS Conference on Computers*, 2003.
- [69] A. Acquaviva, E. Lattanzi, A. Bogliolo, and L. Benini, "Dynamic power management of streaming applications over a wireless lan," in *Proceedings of WSEAS International Conference on MULTIMEDIA, INTERNET and VIDEO TECHNOLOGIES*, 2003.
- [70] ——, "A simulation model for streaming applications over a power-manageable wireless link," in *Proceedings of European Simulation and Modelling Conference*, 2003.
- [71] E. Lattanzi, A. Acquaviva, A. Bogliolo, and L. Benini, "Exploring coprocessor interfaces in an embedded java environment," in *Proceedings of WSEAS International Conference on Simulation, Modelling and Optimization*, 2003.

#### Technical reports

- [72] E. Lattanzi, A. Seraghti, M. Zandri, and A. Bogliolo, "Virtualsense alpha: Open-hardware ultra-low-power wireless sensor node," NeuNet, Urbino, Italy, Tech. Rep. 12.002, 2012.
- [73] L. Klopfenstein, S. Delpriori, G. Luchetti, A. Seraghti, E. Lattanzi, and A. Bogliolo, "Openboxware on android," NeuNet, Urbino, Italy, Tech. Rep. 12.004, 2012.

Urbino, 03-08-2020  
Emanuele Lattanzi