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[Web Page](#)

## OVERVIEW

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### Professor in Computer Science and Engineering

**Focus:** Vehicular Systems, Mobile Edge Computing , Smart Sensing, Embedded/Distributed AI.

**Publications:** I co-Authored 127 scientific papers in International Conferences and peer reviewed journals. My bibliometric performances are [H-Index=35; i10-Index=91]([Google Scholar](#))

## EMPLOYMENT

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**Full Professor (with tenure)** Nov 2017 —  
*University of Bologna*

**Adjunct Faculty** July 2012 —  
*University of California Los Angeles, USA*

**Atos/Renault Chair Professor (with tenure)** 2013-2020  
*Sorbonne Université, Paris France*

**Senior Research Scientist** 2004-2012  
*University of California Los Angeles, USA*

### Visiting and Honorary Positions

**Visiting Professor** 2019-2022  
*Macao Polytechnic Institute*

**Visiting Professor** 2010-2011  
*University of Cagliari, Italy*

**Visiting Professor** 2009-2011  
*Tonjii University, Shanghai, China*

**Visiting Researcher** Jun-Sep 2007  
*Microsoft Research, Cambridge UK*

**Visiting Scholar** 2000-2004  
*University of California Los Angeles, USA*

## EDUCATION

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**Habilitation à Diriger des Recherches** 2018  
*Sorbonne Université, France*

**Postdoctoral Fellow** 2002-2004  
*University of California Los Angeles, USA*

**PhD Computer Science and Engineering** 2002  
*University of Bologna*

**Italian Laurea Doctorate in Computer Science** 1998  
*University of Bologna*

## PROFESSIONAL EXPERIENCE

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### Advisory/Academic Committees

1. [University of Bologna](#) –Chancellor’s representative in the regional government digital agenda’s scientific advisory board. ([Emilia-Romagna](#) region; Oct. 2020 - present).
2. [University of Bologna](#) –Chancellor’s delegate for Digital Technologies in International Relations (Apr. 2019 - present).
3. [Olidata S.p.A](#) —Innovation Board [*Chair*] (Apr. 2018-Mar. 19).
4. [NSF Computer and Network Systems \(CNS\) Division Networking Technology and Systems \(NeTS\) program](#) (Spring 2008, 2011, 2013; Winter 2017) [*project selection panel member*].
5. [European Commission FP7 program \(2/13\)](#) [*project selection panel member*].
6. [Istituto Superiore Mario Boella, Torino Italy](#) —Research Strategy Advisory Committee (2006-2007) [*committee member*].
7. [City of Santa Monica, CA USA](#) —Advisory Panel for the Multi-Modal Parking and Transportation System project (2012) [*committee member*].
8. [Datalogic](#) Strategic Technology Committee (2012-2014) [*committee member for wireless technologies*].
9. Milbank, Tweed, Hadley & McCloy LLP Expert for the defendant Apple Inc. (2014) —Case Netairus Technologies, LLC Plaintiff, vs. APPLE, INC. Case #Civil Action No. Case No. 2:10-CV-03257-GAF-Ex. [*Expert for the defendant*]

### Scientific Committees

1. **General co-Chair:** ACM MobiCom’15, ACM MobiSys ’15, IEEE/IFIP NTM’16.
2. **Program Committee co-Chair:** ACM MobiOpp 2007 (USA), IEEE MoVeNet 2007 (Italy), IEEE ICC ’08 (China), ACM AINTEC ’10 (Thailand), IEEE VNC ’12 (Korea), IEEE INFOCOM ’19 (France), ACM SIGCOMM MAGESYS ’19 (China).
3. **Program Committee Member:** IEEE/IFIP MedHocNet (2003—2006), IEEE GLOBECOM (2002—2003), IEEE ICC (2003—2006), IEEE SECON (2010—2012, 2018), ACM MobiCom(2015—2016, 2018), ACM MobiSys(2016, 2019), and IEEE INFOCOM (2016—2018), ACM HotMobile (2016—2018), IEEE VNC (2014—2016)

### Duties in Professional Bodies and Organizations.

1. **Vice-Chair:**  
[IEEE Communication Society Multimedia Technical Committee](#) (term 2006—2008)
2. **Secretary:**  
[ACM Special Interest Group on Mobile Computing–SIGMOBILE](#) (term 2017—2021),  
[IEEE Communication Society Multimedia Technical Committee](#) (term 2004—2006).

### Research in Popular Media appearances.

1. “**Canarin**’ the mobile pollution sensing cloudlet developed by Sorbonne Université and Macao Polytechnic Institute has been showcased by the National French News channel France 3 on June 21, 2017.
2. **CarTorrent**, developed at UCLA, has been featured in several media outlets including: [BBC Radio](#), [ABC](#), [The Guardian](#), [Wired Magazine](#), [Corriere della Sera](#), [La Nuova Sardegna](#), [The Italian National Television](#).

## Software and Tools.

Under my supervision, the Network Research Laboratory (NRL) at UCLA has released *VERGILIUS* and *CORNER*, two simulation tools for Vehicular Ad Hoc Networks (VANETs). *CORNER* is a high-fidelity yet lightweight urban propagation model. *VERGILIUS* is an urban mobility toolbox designed to close the gap between mobility microscopic simulators and network simulators.

## Patents.

1. "環境監測儀 —An environment monitor" —Chinese patent (ZL 2017 2 0615710.4) - utility model patent, Publication date: December 29, 2017, co-authored with prof. Tse Tan Sim.
2. "Method and system for establishing an internet access by using a wireless local area network communication protocol from a mobile client station" application WO EP US CN JP FR US20180249514A1.
3. "Method and apparatus for improved data transmission" application #US 2007/0115814 A1 featuring an improved method for data transmission over wireless channels;

## FUNDING

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### @ UCLA

1. **Various Donors:** "mobile edge systems", US\$101,718 (**PI**, 1/16- 12/19).
2. **NSF:** "[NeTS: Student Travel Grant for the ACM MobiCom 2015 Conference.](#)", US\$25,000 (**co-PI**, 09/15- 02/16).
3. **Toyota, ITC Research USA:** "Warp-WiFi, design and system implementation of WiFi protocols for the VANET environment", US\$ 151,000 (**PI**, 03/13 - 2/15).
4. **NSF:** "[EAGER: Bridging Campus Resources via GENI and OpenFlow.](#)", US\$309,578 (**co-PI**, 10/12- 09/16).
5. **Toyota, ITC Research USA:** "Design and Development of ICN in Vehicular Networks.", US\$ 156,000 (**PI**, 03/12 - 2/15).
6. **NSF:** "[Support and organization of the technical demonstrations for the NSF-GENI GEC 13th at UCLA](#)", US\$59,155 (**PI**, 03/12 - 03/13).
7. **NSF:** "[NeTS:Large: Collaborative Research: Closing the loop between traffic/pollution sensing and vehicle route control using traffic lights and navigators.](#)", US\$1,167,562 (**co-PI**, 09/11 - 08/15).
8. **BBN Technologies:** "The GENI Project - SOLICITATION 3 Wireless Geni in a Box", US\$260,000 (**PI**, 03/11 - 2/13).
9. **BBN Technologies:** "The GENI Project - Campus Vehicular Testbed (C-Vet)", US\$134,107 (**PI**, 03/10 - 2/12).
10. **CISCO Systems University Program:** "Vehicular Networks and Infrastructure Support", US\$70,000 (**PI**, 03/10 - 2/11).
11. **NSF:** "[NECO: A Proposal to Fund Student Travel Grants To Attend MobiCom 2008](#)", US\$20,500 (**PI**, 08/08 - 7/09).
12. **US ARMY:** "The Campus Vehicular Testbed: Validating Propagation, Mobility and Dissemination Models", US\$97,873. (**PI**, 03/08- 2/10).
13. **ST-Microelectronics/UC-Discovery Grant:** "SEAmless Content Delivery.", US\$98,000. (**PI**, 06/08- 6/10).
14. **ST-Microelectronics/UC-Discovery Grant:** "Mesh Networks: Ad Hoc Backbone Design and Management.", US\$161,536. (**PI**, 06/07- 6/07).

15. **NSF**: “[NeTS-ProWiN: Emergency Ad Hoc Networking Using Programmable Radios and Intelligent Swarms](#)”, US\$762,000 (**co-PI**, 09/05 - 8/10).
16. **ST-Microelectronics/UC-Discovery Grant**: “Mesh meets ad hoc: The Urban Vehicle Grid.”, US\$169,580. (**PI**, 06/05- 6/06).
17. **ST-Microelectronics/UC-Discovery Grant**: “Enhanced QoS Support in Personal and Mobile Wireless Networks.”, US\$163,190. (**co-PI**, 06/05- 6/06).
18. **Strategic Research Fund, Italian Department for Research (MURST)**: “E-GRID: Grid Computing Technologies For Financial RealTime Modeling And Simulation.”, US\$480,000.00. (**co-PI**, 02/04-02/07).
19. **National Science Foundation (NSF)**: “[NeTS - Collaborative Research - NR: Over-Probe: A Toolkit for the Management of Overlay Networks with Mobile Users](#)”, US\$660,000 (**co-PI**, 10/04 - 09/08).

### @ Sorbonne Université

1. **Atos/Renault Chair of Excellence**: “Smart & connected mobility, la voiture connectée”, E.1,500,000 (**PI**, 1/14- 9/19).
2. **European Union H2020**: “Enabling Smart Energy as a Service via 5G Mobile Network advances (NRG-5)”, E.4.,700,000 — Sorbonne Université E.300,000 (**co-PI & Sorbonne-Université -Task-Leader**, 6/17 - 12/19).
3. **IET Health Innovation by Design Projects**: “Impact Of Pollution on Allergic Rhinitis(POLLAR)”, E.450,000 — Sorbonne-Université E.193,750 (**co-PI**, 1/18- 12/19).
4. **Alliance Nationale Pour le Science de la Vite e la Sante**: “Objets connectés pour mesurer l’impact de la pollution atmosphérique”, E.60,000 (**co-PI**, 09/16 - 08/18).
5. **ITR-SystemX**: “ICN Mobility in the 5G framework”, E.156,000 (**PI**, 03/15 - 03/18).
6. **French Cooperation via Asian Institute of Technology**: “Low Cost Realtime Monitoring of Haze Air Quality Disasters in Rural Communities in Thailand and Southeast Asia”, E.50,000 (**PI**, 10/2016 - 9/18).

### @ University of Bologna

1. **Regione Emilia Romagna POR FESR** : “ LiBER:Lithium Battery Emilia Romagna”, E.800,000 (**co-PI**, 7/19- 7/21).

## TEACHING EXPERIENCE

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### @ Sorbonne Université:

1. Winter Semester **2013~2019** : **Smart Mobile Systems taught at IET M2 Réseau Intensive**

### @ UCLA Computer Science Department:

1. Winter Quarter **2010~2012** : **CS114: Introduction to Peer-to-Peer Computing**  
Undergraduate Class: Rated 7.6/9 in 2010 students' evaluations, 7.5/9 in 2011 students' evaluations and 7.9/9 in 2012 students' evaluations
2. Winter Quarter **2006~2007** : **CS218: Advanced Mobile Peer-to-Peer Computing**  
Research Oriented Graduate Class (co-taught with Prof. Gerla)
3. Winter Quarter **2004**: **CS198:Peer-to-Peer Computing Fundamentals**  
Undergraduate Class
4. Winter/Summer/Fall Quarters **2003-2004** : **CS118: Computer Networks Fundamentals**  
Undergraduate Class

### @ University of Bologna - DISI - Sede Cesena:

1. Spring Semester **2018, 2020**: **Programmazione di Reti (CS118)**  
Undergraduate Class
2. Spring Semester **2020**: **Smart Vehicular Systems**  
Graduate Class

### Short Courses:

1. October **2010** : **University of Cagliari Doctoral School–PhD level Class on Vehicular ad Hoc Networks and Delay Tolerant Networks**
2. November **2009**: **20th Asian Graduate School on Computer Science graduate course on Vehicular Ad Hoc Networks and Delay Tolerant Systems.**

## INVITED TALKS IN INTERNATIONAL CONFERENCES

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1. Drones Fueled Revolutions: Into the era of autonomous workers and digital humans, **keynote** at 5th ACM Workshop on Micro Aerial Vehicle Networks, Systems, and Applications, Seoul, Korea, 06/19
2. Internet of Things in the Vehicle, keynote at IEEE 11th International Conference on COMMunication Systems & NETworkS (COMSNET'19), New Delhi, India 01/19
3. Internet of Things in the Vehicle, keynote at IEEE Cloudification of the Internet of Things 2016 (CIoT'16), Paris, France 11/16
4. Mobile Sensing and Beyond in the Information Age: An Experimental Perspective, **keynote** at ACM 5th International Workshop on Pervasive Wireless Healthcare (MobileHealth), Hangzhou, China, 06/15
5. Social Pervasive Sensing, 2015 International Conference on Orange Technologies (ICOT 2015, Hong Kong, 12/15
6. Will ICN ride Challenged Network Environments?, **keynote** at Ninth ACM Workshop on Challenged Networks (CHANTS) Maui, HI, USA, 09/14
7. Multimedia Applications Over Vanets, **keynote** at the 4th IEEE International Workshop on Digital Entertainment, Networked Virtual Environments, and Creative Technology, Las Vegas, USA, 01/12
8. Vergilius, a Scenario Generator for Vehicular Networks, **keynote** at IEEE MASS, San Francisco, USA, 11/10
9. Vehicles and The Environment: Asset or Liability, **keynote** at ACM Asian Internet Engineering Conference (AINTEC), Bangkok, Thailand, 11/09
10. Validating VANET Research: Simulation, Emulation and Testbed, panel at the 2nd IEEE International Symposium on Wireless Vehicular Communications (IEEE WiVeC'2008), Calgary Canada, 09/08
11. TCP Start up Performance in Large Bandwidth Delay Networks, presented to the IEEE International Workshop on High Speed Networks (HSN 2003) in conjunction with IEEE INFOCOM 2003, San Francisco, CA, USA, 03/03
12. TCP Westwood: Experiments, simulations and test bed evaluation, presented in Seventh Annual International Conference on Mobile Computing and Networking MWSIM/MOBICOM2001, Rome, Italy, 07/01
13. TCP Start up Performance in Large Bandwidth Delay Networks, presented in Seventh Annual International Conference on Mobile Computing and Networking MWSIM/MOBICOM2001, Rome, Italy, 07/01

## SEMINARS AND COLLOQUIA

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1. Enabling Vehicle V2X in Urban Landscapes, invited talk at the University of Memphis, Memphis, TS, USA 10/16
2. Enabling Vehicle V2X in Urban Landscapes, invited talk at Cisco – Ecole Polytechnique Networking Innovation and Research Symposium, CISCO Systems Paris Innovation and Research Lab (PIRL), Paris, France 03/16
3. Connecting cars with Wi-Fi networks, invited talk at the annual 2016 Connected Driver event, Brussels, Belgium 01/16
4. Enabling Connected Cars through Named Data, invited talk at the Department of Computing, Hong Kong Polytechnic Institute, Hong Kong, SAR 12/15

5. Introduction to Vehicular Networks, invited talk at the International Summer School of Information Engineering on ICT for Automotive Industry, Bressanone, Italy 07/15
6. [Enabling Connected Cars through Named Data](#), invited talk at Microsoft Research, Cambridge Laboratory, UK 04/15
7. MasterPark: Finding Roadside Parking via Edge-based Visual Analytics, invited talk at Cisco Systems FAST Seminar Series, globally via WebEx, 04/15
8. [Connected Cars in Future Smart Cities](#), invited talk at the Agencia Nacional de Investigación e Innovación (ANII) workshop on Information and Communication Systems and their application to vertical sectors by , Montevideo, Uruguay 03/15
9. Vehicle Networking via Named Data, invited talk at the IAsiaFI 2013 Summer School, Chinese University of Hong Kong (CUHK), Hong Kong, SAR 08/13
10. A Hierarchical Approach For Low Cost And Fast QoS Provisioning, invited at CISCO Systems, San Jose, CA, USA 08/01

## **STUDENTS ADVISED AND MENTORED**

1. **Sorbonne Université**: Xuan Zheng – PhD 06/18 “Towards seamless mobility in ICN: connectivity, security, and reliability” *Cisco, France*
2. **Sorbonne Université**: Giulio Grassi – PhD 10/17 “[Connected cars: a networking challenge and a computing resource for Smart cities](#)” *INRIA France*
3. **UCLA**: Fabio Angius – PhD 11/14 “Reliable Content Distribution using ICN” *AirBnB, USA*
4. **UCLA**: Gustavo Marfia – PhD 05/09 “P2P Intelligent Transportation Systems: Mobility, Fairness and Scalability” *University of Bologna, Associate Professor.*
5. **UCLA**: Eugenio Giordano – PhD 11/09 “Mobility Scenarios and Urban Infrastructure in Vehicular Networks” *Google, USA*
6. **UCLA**: Claudio E. Palazzi – PhD 03/07 “Fast Online Gaming over Wireless Networks” *University of Padua, Associate Professor*

**Current PhD students:** Davide Aguiari (Y2, **Sorbonne Université**), Boris Dessimond (Y2, **Sorbonne Université**), Furong Yang (Y2, **Sorbonne Université**), Preechai Mekbungwan (Y1, **Sorbonne Université**), Carlo Falcomer (Y1, **University of Bologna**), Brian Ian (Y1, **Macao Polytechnic Institute**), Yuhan Chan (Y1, **Macao Polytechnic Institute**), Lin Zi (Y1, **Macao Polytechnic Institute**)

**MS students and Interns:** Tianchen Wang (Y1, **UCLA**), Wei Wang (Intern, **Sorbonne Université**), Andrea Ferlini (Intern, **Sorbonne Université**), Luca De Mori (Intern, **Sorbonne Université**), Michael Bosello (Y2, **University of Bologna**)

## PUBLICATIONS [statistics]

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### Peer-reviewed journals

- [1] Jean Bousquet, Josep M. Anto, Isabella Annesi-Maesano, Giovanni Pau, and et.al. “POLLAR: Impact of air POLLution on Asthma and Rhinitis; a European Institute of Innovation and Technology Health (EIT Health) project”. In: *Clinical and Translational Allergy* 8.1 (2018), p. 36.
- [2] Luigi Atzori, Alessandro Floris, Roberto Girau, Michele Nitti, and Giovanni Pau. “Towards the implementation of the Social Internet of Vehicles”. In: *Computer Networks* 147 (2018), pp. 132–145.
- [3] Philip Lei, Rita Tse, Gustavo Marfia, and Giovanni Pau. “Can we monitor the natural environment analyzing online social network posts? A literature review”. In: *Online Social Networks and Media* 5 (2018), pp. 51–60.
- [4] Jordan Auge, Giovanna Carofiglio, Giulio Grassi, Luca Muscariello, Giovanni Pau, and Xuan Zheng. “MAP-Me: Managing Anchor-less Producer Mobility in Information-Centric Networks”. In: *IEEE Transactions on Network and Service Management* 15.2 (2018), pp. 596–610.
- [5] Rita Tse, Lu Fan Zhang, Philip Lei, and Giovanni Pau. “Social Network Based Crowd Sensing for Intelligent Transportation and Climate Applications”. In: *Mobile Networks and Applications* (2017), pp. 1–7.
- [6] Matteo Sammarco, Rita Tse, Giovanni Pau, and Gustavo Marfia. “Using geosocial search for urban air pollution monitoring”. In: *Pervasive and Mobile Computing* 35 (2017), pp. 15–31.
- [7] Eun-Kyu Lee, Mario Gerla, Giovanni Pau, Uichin Lee, and Jae-Han Lim. “Internet of Vehicles: From intelligent grid to autonomous cars and vehicular fogs”. In: *International Journal of Distributed Sensor Networks* 12.9 (2016).
- [8] Rita Tse, Yubin Xiao, Giovanni Pau, Serge Fdida, Marco Roccetti, and Gustavo Marfia. “Sensing pollution on online social networks: A transportation perspective”. In: *Mobile Networks and Applications* 21.4 (2016), pp. 688–707.
- [9] Mario Gerla, Giovanni Pau, and Rita Tse. “Anatomy of Connected Cars”. In: *ZTE Communications* 1 (2014), p. 009.
- [10] Mario Gerla, Chuchu Wu, Giovanni Pau, and Xiaoqing Zhu. “Content distribution in VANETs (—**Awarded Best Paper**)”. In: *Vehicular Communications* 1.1 (2014), pp. 3–12.
- [11] Giovanni Pau. “Quickly home please: How connected vehicles are revolutionizing road transportation”. In: *IEEE Internet Computing* 17.1 (2013), pp. 80–83.
- [12] Gustavo Marfia, Marco Roccetti, Alessandro Amoroso, and Giovanni Pau. “Safe driving in LA: report from the greatest intervehicular accident detection test ever”. In: *IEEE Transactions on Vehicular Technology* 62.2 (2013), pp. 522–535.
- [13] Mario Gerla, Jui-Ting Weng, Eugenio Giordano, and Giovanni Pau. “Vehicular Testbeds-Model Validation before Large Scale Deployment.” In: *JCM* 7.6 (2012), pp. 451–457.
- [14] Ilias Leontiadis, Gustavo Marfia, David Mack, Giovanni Pau, Cecilia Mascolo, and Mario Gerla. “Found in the shuffle - Transportation Management & Engineering”. In: *Roads & Bridges Magazine, Scranton Gillette Communications* 17.2 (2012).



- [15] Giovanni Pau and Rita Tse. “Challenges and opportunities in immersive vehicular sensing: lessons from urban deployments”. In: *Signal Processing: Image Communication* 27.8 (2012), pp. 900–908.
- [16] Eugenio Giordano, Raphael Frank, Giovanni Pau, and Mario Gerla. “Corner: A radio propagation model for vanets in urban scenarios”. In: *Proceedings of the IEEE* 99.7 (2011), pp. 1280–1294.
- [17] Ilias Leontiadis, Gustavo Marfia, David Mack, Giovanni Pau, Cecilia Mascolo, and Mario Gerla. “On the effectiveness of an opportunistic traffic management system for vehicular networks”. In: *IEEE Transactions on Intelligent Transportation Systems* 12.4 (2011), pp. 1537–1548.
- [18] Tammara Massey, Gustavo Marfia, Adam Stoelting, Riccardo Tomasi, Maurizio A Spirito, Majid Sarrafzadeh, and Giovanni Pau. “Leveraging social system networks in ubiquitous high-data-rate health systems”. In: *IEEE Transactions on Information Technology in Biomedicine* 15.3 (2011), pp. 491–498.
- [19] Gustavo Marfia, Claudio E Palazzi, Giovanni Pau, Mario Gerla, and Marco Roccetti. “TCP Libra: Derivation, analysis, and comparison with other RTT-fair TCPs”. In: *Computer Networks* 54.14 (2010), pp. 2327–2344.
- [20] Ryad Ben-El-Kezadri and Giovanni Pau. “TimeRemap: stable and accurate time in vehicular networks”. In: *IEEE Communications Magazine* 48.12 (2010), pp. 52–57.
- [21] Uichin Lee, Joon-Sang Park, Seung-Hoon Lee, Won W Ro, Giovanni Pau, and Mario Gerla. “Efficient peer-to-peer file sharing using network coding in manet”. In: *Journal of Communications and Networks* 10.4 (2008), pp. 422–429.
- [22] Gustavo Marfia, Giovanni Pau, Paolo Di Rico, and Mario Gerla. “P2P streaming systems: a survey and experiments”. In: *ST Journal of Research* (2007), pp. 1–4.
- [23] Claudio E Palazzi, Giovanni Pau, Marco Roccetti, and Mario Gerla. “Digital Entertainment Delivery in a Wireless House: Time for a MAC Tuning”. In: *China Communications* (2006), p. 94.
- [24] Alok Nandan, Michael G Parker, Giovanni Pau, and Paola Salomoni. “On index load balancing in scalable P2P media distribution”. In: *Multimedia Tools and Applications* 29.3 (2006), pp. 325–339.
- [25] Stefano Ferretti, Claudio E Palazzi, Marco Roccetti, Giovanni Pau, and Mario Gerla. “FILA in gameland, a holistic approach to a problem of many dimensions”. In: *Computers in Entertainment (CIE)* 4.4 (2006), p. 8.
- [26] Claudio E Palazzi, Stefano Ferretti, Marco Roccetti, Giovanni Pau, and Mario Gerla. “What’s in that magic box? The home entertainment center’s special protocol potion, revealed”. In: *IEEE Transactions on Consumer Electronics* 52.4 (2006).
- [27] Vittorio Ghini, Giovanni Pau, Marco Roccetti, Paola Salomoni, and Mario Gerla. “For here or to go? Downloading music on the move with an ultra reliable wireless Internet application”. In: *Computer Networks* 49.1 (2005), pp. 4–26.
- [28] Vittorio Ghini, Paola Salomoni, and Giovanni Pau. “Always-best-served music distribution for nomadic users over heterogeneous networks”. In: *IEEE Communications Magazine* 43.5 (2005), pp. 69–74.
- [29] Scott Seongwook Lee, Shirshanka Das, Heeyeol Yu, Kenshin Yamada, Giovanni Pau, and Mario Gerla. “Practical QoS network system with fault tolerance”. In: *Computer Communications* 26.15 (2003), pp. 1764–1774.

- [30] Marco Rocchetti, Vittorio Ghini, and Giovanni Pau. “Simulative and Experimental Analysis of an Adaptive Payout Delay Adjustment Mechanism for Packetized Voice across the Internet”. In: *International Journal of Modeling and Simulation* 21.2 (2001).
- [31] Marco Rocchetti, Vittorio Ghini, Giovanni Pau, Paola Salomoni, and Maria Elena Bonfigli. “Design and experimental evaluation of an adaptive payout delay control mechanism for packetized audio for use over the internet”. In: *Multimedia Tools and Applications* 14.1 (2001), pp. 23–53.

## **International Conferences**

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- [32] Alejandro Ranchal Pedrosa and Giovanni Pau. “ChargeltUp: On Blockchain-based Technologies for Autonomous Vehicles”. In: *Proceedings of the 1st Workshop on Cryptocurrencies and Blockchains for Distributed Systems. CryBlock’18*. Munich, Germany: ACM, 2018, pp. 87–92. ISBN: 978-1-4503-5838-5.
- [33] Rita Tse, Lorenzo Monti, Catia Prandi, Davide Aguiari, Giovanni Pau, and Paola Salomoni. “On Assessing the Accuracy of Air Pollution Models Exploiting a Strategic Sensors Deployment”. In: *Proceedings of the 4th EAI International Conference on Smart Objects and Technologies for Social Good. Goodtechs ’18*. Bologna, Italy: ACM, 2018, pp. 55–58. ISBN: 978-1-4503-6581-9.
- [34] Rita Tse, Davide Aguiari, Ka-Seng Chou, Su-Kit Tang, Daniele Giusto, and Giovanni Pau. “Monitoring Cultural Heritage Buildings via Low-cost Edge Computing/Sensing Platforms: The Biblioteca Joanina De Coimbra Case Study”. In: *Proceedings of the 4th EAI International Conference on Smart Objects and Technologies for Social Good. Goodtechs ’18*. Bologna, Italy: ACM, 2018, pp. 148–152. ISBN: 978-1-4503-6581-9.
- [35] Davide Aguiari, Giovanni Delnevo, Lorenzo Monti, Vittorio Ghini, Silvia Mirri, Paola Salomoni, Giovanni Pau, Marcus Im, Rita Tse, Mongkol Ekpanyapong, et al. “Canarin II: Designing a smart e-bike eco-system”. In: *Consumer Communications & Networking Conference (CCNC), 2018 15th IEEE Annual*. IEEE. 2018, pp. 1–6.
- [36] Giulio Grassi, Kyle Jamieson, Victor Bahl, and Giovanni Pau. “ParkMaster: An in-vehicle, edge-based video analytics service for detecting open parking spaces in urban environments”. In: *Proceedings of the 2nd ACM/IEEE Symposium on Edge Computing, San Jose, CA, USA*. 2017.
- [37] Rita Tse and Giovanni Pau. “Enabling street-level pollution and exposure measures: a human-centric approach”. In: *Proceedings of the 6th ACM International Workshop on Pervasive Wireless Healthcare*. ACM. 2016, pp. 1–4.
- [38] Rita Tse and Giovanni Pau. “Deployment of vehicular edge clouds: lessons and challenges”. In: *Eighth International Conference on Digital Image Processing (ICDIP 2016)*. Vol. 10033. International Society for Optics and Photonics. 2016, p. 1003303.
- [39] Rita Tse, Lu Fan Zhang, Philip Lei, and Giovanni Pau. “Crowd Sensing of Weather Conditions and Traffic Congestion Based on Data Mining in Social Networks”. In: *International Conference on Smart Objects and Technologies for Social Good*. Springer, Cham. 2016, pp. 353–361.

- [40] Davide Pesavento, Giulio Grassi, Giovanni Pau, Paramvir Bahl, and Serge Fdida. “Car-Fi: Opportunistic V2I by Exploiting Dual-Access Wi-Fi Networks”. In: *Proceedings of the 21st Annual International Conference on Mobile Computing and Networking*. ACM. 2015, pp. 173–175.
- [41] Fabio Angius, Cedric Westphal, Mario Gerla, and Giovanni Pau. “Drop Dead Data-What to expect Securing Data instead of Channels”. In: *Consumer Communications and Networking Conference (CCNC), 2015 12th Annual IEEE*. IEEE. 2015, pp. 267–275.
- [42] Giulio Grassi, Davide Pesavento, Giovanni Pau, Lixia Zhang, and Serge Fdida. “Navigo: Interest forwarding by geolocations in vehicular Named Data Networking”. In: *World of Wireless, Mobile and Multimedia Networks (WoWMoM), 2015 IEEE 16th International Symposium on a*. IEEE. 2015, pp. 1–10.
- [43] Giovanni Pau, Simona Segre Reinach, Marcus Im, Ines Tolic, Rita Tse, and Gustavo Marfia. “Mobile Sensing and Beyond in the Information Age: An Experimental Perspective”. In: *Proceedings of the 2015 Workshop on Pervasive Wireless Healthcare*. ACM. 2015, pp. 3–6.
- [44] Fabio Angius, Cedric Westphal, Mario Gerla, and Giovanni Pau. “WARP: A ICN architecture for social data”. In: *Computer Communications Workshops (INFOCOM WKSHPS), 2014 IEEE Conference on*. IEEE. 2014, pp. 287–292.
- [45] Mario Gerla, Eun-Kyu Lee, Giovanni Pau, and Uichin Lee. “Internet of vehicles: From intelligent grid to autonomous cars and vehicular clouds (**awarded Most Cited Paper**)”. In: *Internet of Things (WF-IoT), 2014 IEEE World Forum on*. IEEE. 2014, pp. 241–246.
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