

David Tacconi, Ph.D



Personal Information

Born: 24/01/1979, Florence (Italy)
Familiar status: Married with 2 children
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Working Experience

Futur3 - since December 2007 (www.futur3.it)

Project Manager and R&D Leader

Futur3, start-up company in ICT with 15 employees, has the main goal of deploying a wide area WiFi mesh network to cover the main areas of the region and provide users with added value services.

Main Projects and activities:

- **Context Aware platform:** Leader of the design and development of a platform for iPhone, Android, laptops, web portals. Leading a team of 7 internal + 3 senior external developers.
- **Advertising:** responsible of the design and development of a platform to address profiled advertising to wireless users during navigation.
- **Network authentication:** responsible of leading a team of 6 persons for designing and developing authentication services for Futur3 wireless networks according to Italian anti-terrorism law.
- **Fairs and exhibitions:** management of the design and development of wireless connectivity and location aware services for visitors and exhibitors. Leading a team of 6 internal + 2 external developers
- **Responsible for R&D projects** of the company: FP7 projects preparation, Master thesis tutor (7 students so far), main contact with universities and research centers. Leader of Marketing Research project conducted with 4 MBA students of SDA Bocconi in 2009

Create-Net, 01-2005 – 06-2008 (www.create-net.org)

Researcher in Pervasive Computing

Create-Net, international research center with 50 employees located in Trento, has as its main goal funding raising through EU, national and industry projects and the creation of a bridge between universities and companies.

Duties and responsibilities: R&D in the field of pervasive computing, prototype implementation with the final goal of patenting and spin-off.

FP7 projects preparation and FP6 + FP7 projects research and development.

Main partners: Siemens, Nokia, Sun, ETH Zurich, EPFL, ICL, LBS, MIT, CNR.

IT Telecom Italy, 11-2003 – 12-2004 (www.telecomitalia.it)

IT Telecom Italy was responsible of developing management software for Telecom Italia backbone network.

Duties and responsibilities: design, development and field testing of management softwares in direct contact with hardware manufacturers .

Teaching activities

Teaching Assistant for Telecommunication Networking class, Computer Science faculty, **University of Trento** (from 09-2006 to 03-2008)

Teaching Assistant for Advanced Wireless Networks class at **NJIT, USA** (from 10-2002 to 01-2003)

Teacher for informatic and networking classes at high schools (from 09-2003 to 02-2004)

Other experiences, 09-2002 – 12-2007

Design and development of a Wireless Sensor Network for Historical Building Health Monitoring in the city of Trento (from 09-2005 to 12-2006)

Design and development of the *Web Portal* of the *Florence University Press* for book e-commerce (from 03-2004 to 12-2004)

Education and titles

Ph.d, University of Florence, 2006 – 2009 (www.unifi.it)

PhD in Telecommunication Engineering with a thesis entitled "System and solutions for mobile pervasive Environment".

PhD developed within a collaboration among the Create-Net research center and the University of Florence; 16 publications in international conferences and journals.

Internship, NJIT, NJ (USA), 2002 - 2003 (www.njit.edu)

Master thesis developed at Center of Wireless Telecommunication of NJIT, on a topic about 4G networks.

Master Degree, University of Florence, 1997 - 2003

Degree in Telecommunication Engineering (Summa cum Laude). Average grade for exams 28.5/30.

TOEFL IBT (01/2010)

Score 110/120: Reading 27, Listening 28, Speaking 27, Writing 28

Skills

Project Management: MS project, Basecamp, XP coaching

Networking tools: Coova Chilli, Radius, open NMS, Zenoss

Programming: Java, C++, C, Perl, nesC

Web: J2EE, SOA, Apache, Tomcat, Php, Javascript and ajax

DB: MySQL (as DBA) Oracle

OS: MacOS, Windows, Linux (Debian), Android, iPhoneOS

Simulation tool: Matlab, Omnet++, Opnet, TOSSIM

Networking: Bluetooth, WiFi, Wireless Sensor Networks, Mesh and adhoc networks

List of Publications

1. David Tacconi, Daniele Miorandi, Iacopo Carreras, Francesco Chiti and Romano Fantacci "***Using Wireless Sensor Networks to support Intelligent Transportation Systems***" Elsevier journal on Ad Hoc Networks, Special Issue on Vehicular Networks, June 2010
2. Michele Vincenzi, Roberto Tomasi, David Tacconi, Dzmitry Kliazovich, Fabrizio Granelli, "***Characterizing User Behavior and Network Load on a Large-scale Wireless Mesh Network***", in Proc. of Tridentomc 2010, Berlin, May 2010
3. D. Tacconi, D. Miorandi, I. Carreras and F. De Pellegrini, "Cooperative Evolution of Services in Ubiquitous Computing Environments", submitted to ACM Trans. Aut. Adapt. Systems.
4. Iacopo Carreras, Francesco De Pellegrini, Daniele Miorandi, David Tacconi and Imrich Chlamtac "***Embedding User Interests into Forwarding Schemes: an Experimental Approach***", in Proceedings of ACM MobiCom Workshop on Challenged Networks (CHANTS 2008). San Francisco, California, USA, September 2008.
5. Iacopo Carreras, David Tacconi and Arianna Bassoli "***Social Opportunistic Computing: Design for Autonomic User-Centric Systems***" book chapter for Springer Autonomic Communication, September 2009
6. Arianna Bassoli, J. Brewer, K. Martin, I. Carreras and D. Tacconi "***Undersound and the Above Ground***" Poster Presentation at the 5th International Mobile Music Workshop (MMW 2008). Vienna, Austria, May 2008.
7. David Tacconi, Oscar Mayora, Paul Lukowicz, Bert Arnrich, Cornelia Setz, Gerhard Troster and Christian Haring. "***Activity and Emotion Recognition to Support Early Diagnosis of Psychiatric Diseases***". In Proceedings of 2nd Pervasive Health Conference. Tampere, Finland, January 2008.
8. Luca Paolino, Alessandro M. Martellone, David Tacconi, Monica Sebillio, Genoveffa Tortora and Giuliana Vitiello, "***Dynamic User Modeling for Personalized Advertisement Delivery on Mobile Devices***" in Springer Proc. of ecom 2009
9. Alessandro Martellone, David Tacconi, Vincenzo Del Fatto and Giuliana Vitiello "LUNA AdsóSustaining Wireless Access for Mobile Users", in Springer Proc. of 10th International Conference Visual 2008,
10. Iacopo Carreras, David Tacconi, Margarita Anastassova and Oscar Mayora "***BluePlanner: a personal support for opportunistic mobile environments***" Mobile Experience - In 10th International Conference on Human-Computer Interaction with Mobile Devices and Services (MOBILEHCI 2008). Amsterdam, the Netherlands, Sept. 2008.
11. David Tacconi, Oscar Mayora, Paul Lukowicz, and Bert Arnrich. "***A Context Aware Framework for Trend Analysis of Long Term Diseases***". Interaction with Ubiquitous Wellness and Healthcare UBIWELL'07. UBICOMP' Workshop Innsbruck, Austria 2007
12. Iacopo Carreras, David Tacconi, Daniele Miorandi "***Data-Centric Information Dissemination in Opportunistic Environments***" Demo Session - In Proceedings of MASS 2007, Pisa, Italy, October 8-11, 2007.
13. Iacopo Carreras, David Tacconi "***U-Hopper: User-centric Heterogeneous Opportunistic Middleware***" Demo Session - In Proceedings of SAC (BIONETICS Workshop), Budapest, Hungary, December 2007.
14. David Tacconi, Iacopo Carreras, Daniele Miorandi, Francesco Chiti, Antonio Casile and Romano Fantacci "***A System Architecture Supporting Mobile Applications in Disconnected Sensor Networks***" In Proceedings of IEEE Global Communications Conference (IEEE GLOBECOM 2007), Washington, USA, November 2007.

15. I. Carreras, D. Tacconi, D. Miorandi, I. Chlamtac, "**A Multi-Resolution Data Management Scheme for Opportunistic Information Diffusion**" in Proc. of MDM, Mannheim (Germany), May 2007
16. D. Tacconi, I. Carreras, D. Miorandi, I. Chlamtac, F. Chiti and R. Fantacci, "**Supporting the Sink Mobility: a Case Study for Wireless Sensor Networks**", in Proc. of IEEE ICC, Glasgow (UK), June 2007.
17. David Tacconi, Hagen Woesner, Imrich Chlamtac and Chao Xie "**Evaluation of Diversity Techniques for the Indoor Diffuse Infrared Channel**" in Proc. of IEEE Wireless Communications and Networking Conference, 2007. WCNC 2007.
18. David Tacconi, Cem U. Saraydar, Şirin Tekinay, "**Ad hoc enhanced routing in UMTS for increased packet delivery rates**" IEEE WCNC 2004, pp. 1093–1098, Atlanta, Georgia, March 2004.
19. David Tacconi, Cem U. Saraydar, Şirin Tekinay, "**Improving UMTS Throughput By Utilizing Ad Hoc Routing**", 6th ACM MSWIM, pp. 140–141, San Diego, CA, September 2003.