



## Paolo Buono

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Via Orabona, 4, Department of Computer Science, University of Bari Aldo Moro, 70125,  
Bari, Italy

### WORK EXPERIENCE

2020 – CURRENT – BARI, Italy  
**ASSOCIATE PROFESSOR** – UNIVERSITY OF BARI ALDO MORO

2002 – 2020 – Bari, Italy  
**ASSISTANT PROFESSOR** – UNIVERSITY OF BARI ALDO MORO

### EDUCATION AND TRAINING

2005 – Via Orabona, 4, Bari, Italy  
**PHD IN COMPUTER SCIENCE. THESIS TITLE: "A FRAMEWORK FOR VISUAL DATA ANALYSIS"** – Department of  
Computer Science, University of Bari Aldo Moro

1999 – Bari, Italy  
**MSC IN COMPUTER SCIENCE. THESIS TITLE: "IMPROVING USER INTERACTION WITH DATABASES: A CASE STUDY"** – D  
epartment of Computer Science, University of Bari Aldo Moro

### LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C2	C2	C2	C2
<b>FRENCH</b>	B2	B2	A2	B2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## PUBLICATIONS

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### Selected publications

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1. Pister, P. Buono, J.D. Fekete, C. Plaisant, P. Valdivia. Integrating Prior Knowledge in Mixed-Initiative Social Network Clustering. In IEEE Transactions on Visualization and Computer Graphics, vol. 27, no. 2, pp. 1775-1785, Feb. 2021. <https://ieeexplore.ieee.org/document/9237999>
2. P. Valdivia, P. Buono, C. Plaisant, N. Dufournaud, J.D. Fekete. Analyzing Dynamic Hypergraphs with Parallel Aggregated Ordered Hypergraph Visualization. In IEEE Transactions on Visualization and Computer Graphics, vol. 27, no. 1, pp. 1-13, 1 Jan. 2021. <https://ieeexplore.ieee.org/document/8789484>
3. P. Buono, D. Caivano, M. F. Costabile, G. Desolda, R. Lanzilotti. Towards the Detection of UX Smells: The Support of Visualizations. In IEEE Access, vol. 8, pp. 6901-6914, 2020. <https://ieeexplore.ieee.org/document/8939398>
4. F. Balducci, P. Buono, G. Desolda, D. Impedovo, A. Piccinno. Improving smart interactive experiences in cultural heritage through pattern recognition techniques. In Pattern Recognition Letters, Volume 131, 2020, Pages 142-149, ISSN 0167-8655. <https://www.sciencedirect.com/science/article/pii/S0167865519303745>
5. P. Buono, F. Balducci. MonitorApp: a web tool to analyze and visualize pollution data detected by an electronic nose. Multimedia Tools and Applications. pp.1-18. 17 May 2019. ISSN:1573-7721. <https://link.springer.com/article/10.1007/s11042-019-7676-3>

## PROJECTS

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### Selected projects with responsibility

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**LOGIN (LOGistica INtegrata) - MISE (Ministero per lo Sviluppo Economico).** PI of the research unit University of Bari (UNIBA). LOGIN (LOGistica INtegrata) project - call INDUSTRIA 2015, bando "Nuove Tecnologie per il Made in Italy" (2012-2015 MI01\_00294) funded by MISE (Ministero per lo Sviluppo Economico).

**VISMMASTER.** Responsibility of the UNIBA unit for the Coordination Action VisMaster (Visual Analytics Mastering the Information Age - FP7 Grant agreement n. 225924).

**CET.** Inside the program of actions for the Environment in the Apulia Region, Paolo Buono had the Scientific responsibility of Action Line E "Automation of emission data acquisition from industrial sources", that is an agreement funded by Apulia Region for the implementation of the "Programma di azioni per l'Ambiente della Regione Puglia". Thanks to his experience in air quality monitoring, Paolo Buono was co-author of the Regional Air Quality Plan (PRQA) of the Apulia Region published in November 2009.

## NETWORKS AND MEMBERSHIPS

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CURRENT

### Interdepartment research centers

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Member of the following interdepartmental research centers of the University of Bari:

- METEA (Environment)
- CITELE (Telemedicine)
- CEDITH (Digital Heritage)

2017 - CURRENT

### International collaborations

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Aviz team. Paris-Saclay

External collaborator of AVIZ team (INRIA - Paris Saclay, France)

<https://www.aviz.fr/Research/People>

CURRENT

### International organizations

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Member of ACM (ID: 6728026), IEEE (ID: 92732695), SIGCHI Italy (the Italian chapter of ACM SIGCHI)

## ● QUALIFICATIONS

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07/08/2018 – CURRENT

### ASN

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Qualification as Full Professor in the ASN (Abilitazione Scientifica Nazionale), the Italian scientific qualification system for sectors:

- 01/B1 (SSD INF/01) (<https://asn16.cineca.it/pubblico/miur/esito-abilitato/01%2FB1/1/5>)

- 09/H1 (SSD ING/INF05) (<https://asn18.cineca.it/pubblico/miur/esito-abilitato/09%2FH1/1/5>)

## ● HONOURS AND AWARDS

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### Awards

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2009 - **Best paper award**. IEEE at the conference Human System Interaction (HSI 2009) May 21-23 2009, Catania. Title: “A tool for Wizard of Oz studies of multimodal mobile systems”.

2008 - **Mini-challenge award**. “Evacuation Traces Mini Challenge Award” at the conference VAST 2008, October 19-24

2008 - Columbus (Ohio, USA), Title: “User Testing to Obtain Consensus Answers”.

## ● INVITED PRESENTATIONS

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07/12/2008 – 07/12/2008

### Invited lecture: Information Visualization and Visual Analytics @ IVU Lab

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Invited lecture: “Information Visualization and Visual Analytics @ IVU Lab” at the University of Manchester (UK) – Big Data Forum

30/11/2017 – 30/11/2017

### Invited Keynote speech: “Pervasive Technologies to Enrich People Experience in Visiting Cultural Heritage sites”

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Invited Keynote speech: “Pervasive Technologies to Enrich People Experience in Visiting Cultural Heritage sites” at the University of St. Pölten (Austria)

<https://fmt.fhstp.ac.at/2017/11/09/capstone-paolo-buono-university-of-bari-aldo-moro/>

## ● EDITORIAL ACTIVITY

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CURRENT

### Journals and conferences

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Paolo Buono is reviewer for various journals, including: IEEE Transaction on Visualization and Computer Graphics (**TVCG**); IEEE Computer Graphics and Applications; International Journal on Human-Computer Studies (**IJHCS**); Multimedia Tool and Applications (MTAP); ACM Multimedia; IEEE Computers; Knowledge and Information Systems (KAIS); Information Visualization Journal (**IVJ**).

He regularly serves in the Program Committee of several International Conference and Workshops, including: Visual Analytics Science and Technology (**VAST**); PacificVis; EuroVA; Information Visualization Conference (InfoVis); **EuroVis**; CHI; AVI; INTERACT.

## ● CONFERENCES

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### Academic Activity

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Paolo Buono is/has been member of the scientific organization committee of International Conferences and Workshops. He was **General co-chair** of the 18th IFIP TC13 International Conference on Human-Computer Interaction, **INTERACT 2021** (Bari, Italy, Aug 30th-Sept 3rd, 2021); Video co-chair of the IEEE International Symposium on Mixed and Augmented Reality, **ISMAR 2021** (Bari, Italy, October 4-8, 2021); **Program co-chair** of the International Conference on Advanced Visual Interfaces, **AVI 2016** (Bari, Italy, June 7-10 2016). Publicity co-chair of the 3rd International Symposium on End-User Development **IS-EUD 2011** (Torre Canne, Italy, June 7-10, 2011); Co-organizer of the WUAV 2013 workshop (Rome, Italy); Co-chair of the Organizational Overviews track and editor of the Adjunct Proceedings of **INTERACT 2005** (Rome, Italy, September 12-16, 2005); **Track co-chair** of the Human Machine Interaction (HMI) track at the 2nd International Conference on Human System Interactions, HSI 2009 (Catania, Italy, May 21-23) and Track co-chair of the HMI track at the 3rd International Conf. on Human System Interactions, HSI 2010 (Rzeszow, Poland); Demo co-chair at the International Conference on Advanced Visual Interfaces, **AVI 2010** (Rome, Italy, May 26-28).

## ● PHD SUPERVISION

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2022 – CURRENT

### PhD student supervision

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**Sabina Akram** - PhD program in Computer Science and Mathematics XXXVII cycle. Sabina's research topic is on "Methodologies and techniques for creating Human-Centred Intelligent Systems".

**Alessandra Legretto** - PhD Program in Computer Science and Mathematics XXXII Cycle. She defended a thesis titled "Tecniche di Visual Analytics per confront di metodi predittivi e analisi di dati di Smart cities" (Visual Analytics techniques to compare predictive methods and analyze Smart Cities data)".

**Adalberto Simeone** - PhD program in Computer Science XXIII cycle. He defended a thesis titled "Investigating new possibilities of IT support for engaging experiences of Cultural Heritage" in 2011.

## ● VISITING PERIODS

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### St. Poelten University of Applied Sciences

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During this visit, Paolo Buono has activated an Erasmus agreement between the two universities. Paolo Buono started a research collaboration with Wolfgang Aigner at the Media Computing Research Group of the St. Poelten University of Applied Sciences.

### HCIL

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Visiting researcher at HCIL at the University of Maryland, USA in 2004 and 2005. Ben Shneiderman, one of the pioneers in HCI and InfoVis, was founder and director of HCIL, from 1983 to 2000. During his visits to the lab, Paolo Buono studied and implemented tools for visualization and analysis of time series (TimeSearcher 2 and TimeSearcher 3).

Several publications have been produced, including:

- P. Buono, A. Aris, C. Plaisant, A. Khella, B. Shneiderman. Interactive Pattern Search in Time Series. Visualization and Data Analysis, VDA 2005, 16-20 January 2005, San Jose, CA USA, SPIE, Washington DC, 175-186.

- P. Buono, C. Plaisant, A. Simeone, A. Aris, B. Shneiderman, G. Shmueli, W. Jank. Similarity-Based Forecasting with Simultaneous Previews: A River Plot Interface for Time Series Forecasting. Proc. of 11th International Conference Information Visualization (IV '07), 2007, pp. 191-196.

## TEACHING

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### Summary of courses taught at Computer Science Department (Bari, Brindisi and Taranto venues)

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Courses taught since academic year 2002/2003 at Computer Science Department:

- Basi di Dati + Lab (9 CFU); Progettazione dell'Interazione con l'Utente (6 CFU); Sistemi di Elaborazione Intelligenti (9 CFU); Sviluppo di Mobile Software (9 CFU); Information Visualization (6 CFU); Data Visualization (6 CFU); Visualizzazione di Dati, Visual Analytics e Reporting (6 CFU); Sicurezza in Ambienti Mobile (6 CFU); Modulo di Laboratorio del corso di Algoritmi e Strutture Dati + Lab (2 CFU); Modulo di Laboratorio del corso di Basi di dati + Lab (2 or 3 CFU).

Courses taught from a.y. 2007/2008 at Computer Science Department in Brindisi:

- Laboratorio di Informatica (6 CFU); Laboratorio di Informatica I (3 CFU); Laboratorio di Informatica II (3 CFU)

Courses taught at Computer Science Department in Taranto:

- Sicurezza in Ambienti Mobile (6CFU)

### Courses in PhD programs

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Courses in the PhD program in Computer Science and Mathematics

- Course "Information Visualization" (16h), XXXIV cycle; Module of 10h for "New interaction paradigms", XXX cycle; Course "Information Visualization" (40h), XXIX cycle.

Courses in the PhD program in Computer Science

- Course "Information Visualization" (20h), XXVIII cycle; Module of 10h for "Nuove sfide nell'interazione uomo-macchina", XXVII cycle; Course "Information Visualization" (10h), XXIII cycle.

### PhD committee member (University of Bari Aldo Moro)

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- PhD program in **Computer Science and Mathematics** - Cycles: XXXII, XXXIII, XXXIV, XXXV, XXXVI, XXXVII (<http://dottorato.di.uniba.it>)

- PhD program in **Computer Science** of the - Cycles: XXII, XXIII, XXIV, XXV, XXVI, XXVII, XXVIII, XXIX (<http://dottorato.di.uniba.it/previous/dottorato.htm>)

## PATENTS

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2013 - 2019

### Industrial Patent (Italian) N. 0001401512 of 2013

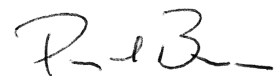
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Multimedia Infrastructure and method to guide a visit to a site of interest. Inventors: Carmelo Ardito, Paolo Buono, Maria Francesca Costabile, Rosa Lanzilotti, Antonio Piccinno. Dipartimento di Informatica, Università degli Studi di Bari Aldo Moro. Industrial Patent (Italian) N. 0001401512 of 2013

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*According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV*

Bari, 03/05/2022



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