

Curriculum



Nome Name:	PAOLO
Cognome Surname:	BELLAVISTA

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POSIZIONE PROFESSIONALE ATTUALE / CURRENT PROFESSIONAL POSITION:

Posizione attuale Current position:	In servizio
Qualifica Qualification:	Professore Ordinario (L. 240/10)
Ateneo/Ente/Azienda University/Institution/Company:	Alma Mater Studiorum - Università di BOLOGNA
Nazione Ateneo/Ente/Azienda University/Institution/Company Country:	ITA
Anno inizio Start Year:	2018
Anno fine End Year:	n.d.

PRECEDENTI ESPERIENZE LAVORATIVE (ULTIMI 10 ANNI) / PREVIOUS WORK EXPERIENCE (LAST 10 YEARS):

Qualifica Qualification:	Professore Associato (L. 240/10)
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Ateneo/Ente/Azienda University/Institution/Company	Alma Mater Studiorum - Università di BOLOGNA
Posizione Sede Lavorativi (indicare Nazione e Città) Workplace Location (specify Country and City):	Bologna, BO, Italia
Anno inizio Start Year:	2004
Anno fine End Year:	2018
Descrizione Description:	

LINGUE / LANGUAGES:

Lingua Language:	Inglese
Scrittura Writing:	C2
Comunicazione Communication:	C1

Lingua Language:	Francese
Scrittura Writing:	B1
Comunicazione Communication:	B1

AREA/SETTORE SCIENTIFICO-DISCIPLINARE / AREA/SECTOR SCIENTIFIC-DISCIPLINARY

Area scientifico-disciplinare Area scientific-disciplinary:	Ingegneria industriale e dell'informazione
Area scientifico-disciplinare codice Area scientific-disciplinary code:	09
Settore scientifico-disciplinare codice Sector scientific-disciplinary code:	-Sistemi di elaborazione delle informazioni
Settore scientifico-disciplinare codice Sector scientific-disciplinary code:	-IINF-05/A

DESCRIZIONE DEI PRINCIPALI RISULTATI SCIENTIFICI CONSEGUITI NEGLI ULTIMI 10 ANNI (CON ANNESSO ELENCO DI MASSIMO 10 PUBBLICAZIONI) / DESCRIPTION OF THE MAIN SCIENTIFIC RESULTS ACHIEVED IN THE LAST 10 YEARS (WITH ATTACHED LIST OF MAXIMUM 10 PUBLICATIONS):

<p>Descrizione Description:</p>	<p>Source: Google Scholar (March 2025) Citations=12700; h-index=50; i10-index=219 Source: Scopus (March 2025) Citations= 7726; h-index=40 In total I am co-author of around 160 articles in international journals/magazines (in publication venues that are considered excellent in my research fields, such as ACM Computing Surveys, IEEE Communication Surveys&Tutorials, IEEE Transactions on Software Engineering, IEEE Journal on Selected Areas in Communications, ACM Transactions on Internet Technology, IEEE Transactions on Vehicular Networks, Elsevier Pervasive and Mobile Computing Journal, Elsevier Journal of Network and Computer Applications, Elsevier Future Generation Computer Systems, IEEE Computer, IEEE Internet Computing, IEEE Pervasive Computing, IEEE Access, IEEE Communications, IEEE Wireless Communications). In addition, I have served as guest editor for around 15 special issues of international journals/magazines (e.g., IEEE Communications, Elsevier Pervasive and Mobile Computing J., Elsevier J. Network and Computing Applications, and Springer Mobile Networks and Applications J.). Moreover, I am co-author of around 15 chapters in international peer-reviewed books and of more than 200 additional papers presented in international conferences organized by the primary professional associations and publishers (IEEE, ACM, Springer, ...). About organization and reviewing activities, I am Editor-in-Chief of the MDPI Computers Journal (2017-) and I am (or have been) member of the Editorial Boards of several international journals/magazines, among which IEEE Communications Surveys&Tutorials (2019-; Associate Editor In Chief currently), ACM Computing Surveys (2020-), IEEE Transactions on Computers (2011-2015), IEEE Transactions on Network and Service Management (2011-), IEEE Transactions on Services Computing (2008-2017), IEEE Networking Letters (2019-), IEEE Communications Magazine (2003-2011), Elsevier Pervasive and Mobile Computing Journal (2010-), Elsevier Journal on Network and Computing Applications (2015-), Elsevier Journal of Systems Architecture (2003-), Springer Journal of Network and Systems Management (2008-), MDPI Sensors Journal, and SAGE International Journal of Distributed Sensor Networks. About most recent conference organization activities, I have served or am serving as Technical Program Co-Chair of IEEE Mobile Cloud 2015, General Co-Chair of Smart Cloud Networks & Systems (SCNS) 2018, Technical Program Co-Chair of ACM Int. Conf. Distributed Computing and Networking (ICDCN'17), General Co-Chair of ACM ICDCN'18, Workshop Co-Chair of MobiArch'17 (within ACM SIGCOMM), and Technical Program Co-Chair of Int. Conf. on Telecommunications (ICT'17).</p>
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PUBBLICAZIONI / PUBLICATIONS:

<p>Anno della pubblicazione Year of publication:</p>	<p>2025</p>
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Citazione Citation:	Mendula, Matteo, Bellavista, Paolo, Levorato, Marco, Contreras, Sharon Ladron de Guevara (2025). A novel middleware for adaptive and efficient split computing for real-time object detection. PERVASIVE AND MOBILE COMPUTING, vol. 108, p. 1-23, ISSN: 1574-1192, doi: 10.1016/j.pmcj.2025.102028
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Anno della pubblicazione Year of publication:	2024
Citazione Citation:	Mora, Alessio, Bujari, Armir, Bellavista, Paolo (2024). Enhancing generalization in Federated Learning with heterogeneous data: A comparative literature review. FUTURE GENERATION COMPUTER SYSTEMS, vol. 157, p. 1-15, ISSN: 0167-739X, doi: 10.1016/j.future.2024.03.027

Anno della pubblicazione Year of publication:	2024
Citazione Citation:	Muhammad Umar Farooq Qaisar, Weijie Yuan, Paolo Bellavista, Fan Liu, Guangjie Han, Rabi Sale Zakariyya, Adeel Ahmed: Poised: Probabilistic On-Demand Charging Scheduling for ISAC-Assisted WRSNs With Multiple Mobile Charging Vehicles. IEEE Trans. Mob. Comput. 23(12): 10818-10834 (2024)

Anno della pubblicazione Year of publication:	2024
Citazione Citation:	Isam Mashhour Al Jawarneh, Paolo Bellavista, Antonio Corradi, Luca Foschini, Rebecca Montanari: SpatialSSJP: QoS-Aware Adaptive Approximate Stream-Static Spatial Join Processor. IEEE Trans. Parallel Distributed Syst. 35(1): 73-88 (2024)

Anno della pubblicazione Year of publication:	2023
Citazione Citation:	Alessandro Staffolani, Victor-Alexandru Darvari, Paolo Bellavista, Mirco Musolesi: RLQ: Workload Allocation With Reinforcement Learning in Distributed Queues. IEEE Trans. Parallel Distributed Syst. 34(3): 856-868 (2023)

Anno della pubblicazione Year of publication:	2022
Citazione Citation:	Paolo Bellavista, Luca Foschini, Alessio Mora: Decentralised Learning in Federated Deployment Environments: A System-Level Survey. ACM Comput. Surv. 54(1): 15:1-15:38 (2022)

Anno della pubblicazione Year of publication:	2022
Citazione Citation:	Juan Luis Herrera, Jaime Galán-Jiménez, Luca Foschini, Paolo Bellavista, Javier Berrocal, Juan Manuel Murillo: QoS-Aware Fog Node Placement for Intensive IoT Applications in SDN-Fog Scenarios. IEEE Internet Things J. 9(15): 13725-

	13739 (2022)
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Anno della pubblicazione Year of publication:	2022
Citazione Citation:	Hyunbum Kim, Jalel Ben-Othman, Lynda Mokdad, Paolo Bellavista: A Virtual Emotion Detection Architecture With Two-Way Enabled Delay Bound toward Evolutional Emotion-Based IoT Services. IEEE Trans. Mob. Comput. 21(4): 1172-1181 (2022)

Anno della pubblicazione Year of publication:	2021
Citazione Citation:	Paolo Bellavista, Carlo Giannelli, Marco Mamei, Matteo Mendula, Marco Picone: Application-Driven Network-Aware Digital Twin Management in Industrial Edge Environments. IEEE Trans. Ind. Informatics 17(11): 7791-7801 (2021)

Anno della pubblicazione Year of publication:	2021
Citazione Citation:	Paolo Bellavista, Antonio Corradi, Andy Edmonds, Luca Foschini, Alessandro Zanni, Thomas Michael Bohnert: Elastic Provisioning of Stateful Telco Services in Mobile Cloud Networking. IEEE Trans. Serv. Comput. 14(3): 710-723 (2021)

DESCRIZIONE DEI PRINCIPALI PROGETTI DI RICERCA E PREMI CONSEGUITI NEGLI ULTIMI 10 ANNI (CON ANNESSO ELENCO DI MASSIMO 10 RISULTATI, INCLUDENDO, A TITOLO DI ESEMPIO, PRINCIPAL INVESTIGATOR O COORDINATORE LOCALE DI PROGETTI DI RICERCA COMPETITIVI NAZIONALI O INTERNAZIONALI, SIGNIFICATIVI PREMI CONSEGUITI PER LA PROPRIA ATTIVITÀ DI RICERCA)/ DESCRIPTION OF THE MAIN RESEARCH PROJECTS AND AWARDS AWARDED IN THE LAST 10 YEARS (WITH ATTACHED LIST OF MAXIMUM 10 ACHIEVEMENTS, INCLUDING, FOR EXAMPLE, PRINCIPAL INVESTIGATOR OR LOCAL COORDINATOR OF NATIONAL OR INTERNATIONAL COMPETITIVE RESEARCH PROJECTS, SIGNIFICANT AWARDS AWARDED FOR YOUR RESEARCH ACTIVITY):

Descrizione Description:	<i>Coordinatore scientifico del progetto EU IoTwins, con ampio partenariato e budget, vedi elenco. PI del PRIN 2022 JOULE, vedi elenco. WP leadership, task leadership e partecipazione in numerosi progetti EU e nazionali. Invited keynote speaker a diverse conferenze e workshop internazionali.</i>
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Descrizione Description:	EU H2020 ICT-11 Innovation Action, "IoTwinS", Coordinator Bonfiglioli Riduttori, Scientific Coordinator Paolo Bellavista (2019-2022), overall budget 20.6M€; overall scientific coordinator
Descrizione Description:	EU H2020 NMP Research & Innovation Action, "SimDome", Coordinator UNIBO (2019-2022), overall budget 4.6M€; leading UNIBO activities on ontologies for material modeling
Descrizione Description:	EU H2020-NMBP-TO-IND Research & Innovation Action, "OntoTrans", Coordinator TU Wien Austria (2020-2023), overall budget 5.5M€, leading UNIBO activities on ontology platforms and interoperability solutions
Descrizione Description:	EU H2020 H2020DT Innovation Action, "Change2Twin", Coordinator SINTEF Norway (2020-2023), overall budget 8.0M€, leading UNIBO activities on distributed and hybrid digital twins for SMEs
Descrizione Description:	EU H2020 ICT-56-2020, "NexT GEneration SMart INterconnectEd IoT (Terminet)", Coordinator Univ. Western Macedonia (2020-2023), overall budget 7.9M€, leading UNIBO activities on edge cloud computing for IoT
Descrizione Description:	PRIN 2022, JOint ResoUrce Management in ReconfigurABLE I4.0 Factories (JOULE) (2023-2025); National Coordinator
Descrizione Description:	Casa delle Tecnologie Emergenti, Coordinator Città Metropolitana di Bologna (2023-2025); WP3 Leader (Research & Development)
Descrizione Description:	PNRR Research Infrastructures, SoBigData.it, Coordinator CNR (2022-2025); UNIBO leader
Descrizione Description:	EU H2020 CSA "OntoCommons - Ontology-driven data documentation for Industry Commons", Coordinator TU Wien (2020-2023), overall budget 4.2M€, leading UNIBO activities on ontology interoperability and associated frameworks
Descrizione Description:	Artemis Joint Undertaking, Innovation Pilot Project, "Arrowhead Tools", Coordinator Lulea U. Technology Sweden (2019-2022), overall budget 21M€, task leader.

DESCRIZIONE DEI PRINCIPALI RISULTATI CONSEGUITI NEGLI ULTIMI 10 ANNI IN TERMINI DI SVILUPPO DI RETI E RELAZIONI SCIENTIFICHE NAZIONALI E INTERNAZIONALI (CON ANNESSO ELENCO DI MASSIMO 5 RISULTATI, INCLUDENDO, A TITOLO DI

ESEMPIO, PARTECIPAZIONE O ORGANIZZAZIONE DI CONVEGNI NAZIONALI E INTERNAZIONALI; CONTRIBUTI A CONSORZI DI RICERCA) / DESCRIPTION OF THE MAIN RESULTS ACHIEVED IN THE LAST 10 YEARS IN TERMS OF DEVELOPMENT OF NATIONAL AND INTERNATIONAL SCIENTIFIC NETWORKS AND RELATIONS (WITH ATTACHED LIST OF MAXIMUM 5 RESULTS, INCLUDING, FOR EXAMPLE, PARTICIPATION OR ORGANIZATION OF NATIONAL AND INTERNATIONAL CONFERENCES; CONTRIBUTIONS TO RESEARCH CONSORTIA):

Descrizione Description:	<i>I have organized several international conferences and workshops, as well as run other services for the main research communities I belong to (for example, as the Internet Technical Committee Chair of IEEE Comsoc). Conference organization activities include: GC of ACM/IFIP Middleware 2023, TPC Co-Chair of IEEE Mobile Cloud 2015, GC of Smart Cloud Networks & Systems (SCNS) 2018, TPC Co-Chair of ACM Int. Conf. Distributed Computing and Networking (ICDCN'17), GC of ICDCN'18 and ICDCN'24, Workshop Co-Chair of MobiArch'17 (within ACM SIGCOMM), and TPC Co-Chair of Int. Conf. on Telecommunications (ICT'17).</i>
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Descrizione Description:	General Chair of ACM/IFIP Middleware 2023
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Descrizione Description:	TPC Co-Chair of IEEE Mobile Cloud 2015
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Descrizione Description:	General Chair of Smart Cloud Networks & Systems (SCNS) 2018
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Descrizione Description:	General Chair of ICDCN'18 and ICDCN'24
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Descrizione Description:	TPC Co-Chair of Int. Conf. on Telecommunications (ICT'17)
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DESCRIZIONE DEI PRINCIPALI RISULTATI CONSEGUITI NEGLI ULTIMI 10 ANNI IN TERMINI DI SUPPORTO ALLA COMUNITÀ SCIENTIFICA (CON ANNESSO ELENCO DI MASSIMO 5 RISULTATI, INCLUDENDO, A TITOLO DI ESEMPIO, RESPONSABILITÀ DI DIREZIONE DI COMITATI EDITORIALI; INCARICHI DI VALUTAZIONE DELLA RICERCA PRESSO ISTITUZIONI NAZIONALI O INTERNAZIONALI; RESPONSABILITÀ

ISTITUZIONALI ALL'INTERNO DELL'ISTITUZIONE DI APPARTENENZA O DI ALTRE ISTITUZIONI) / DESCRIPTION OF THE MAIN RESULTS ACHIEVED IN THE LAST 10 YEARS IN TERMS OF SUPPORT TO THE SCIENTIFIC COMMUNITY (WITH ATTACHED LIST OF MAXIMUM 5 RESULTS, INCLUDING, FOR EXAMPLE, MANAGEMENT RESPONSIBILITIES OF EDITORIAL COMMITTEES; RESEARCH EVALUATION ROLES AT NATIONAL OR INTERNATIONAL INSTITUTIONS; INSTITUTIONAL RESPONSIBILITIES WITHIN THE INSTITUTION OF AFFILIATION OR OTHER INSTITUTIONS):

<p>Descrizione Description:</p>	<p><i>About organization and reviewing activities, I am Associate EIC of IEEE Communications Surveys&Tutorials and I am (or have been) member of the Editorial Boards of several international journals/magazines, among which ACM Computing Surveys (2020-), IEEE Transactions on Computers (2011-2015), IEEE Transactions on Network and Service Management (2011-), IEEE Transactions on Services Computing (2008-2017), IEEE Networking Letters (2019-), IEEE Communications Magazine (2003-2011), Elsevier Pervasive and Mobile Computing Journal (2010-), Elsevier Journal on Network and Computing Applications (2015-), Elsevier Journal of Systems Architecture (2003-), Springer Journal of Network and Systems Management (2008-), and MDPI Sensors Journal. About most recent conference organization activities, I have served as GC of ACM/IFIP Middleware 2023, TPC Co-Chair of IEEE Mobile Cloud 2015, GC of Smart Cloud Networks & Systems (SCNS) 2018, TPC Co-Chair of ACM Int. Conf. Distributed Computing and Networking (ICDCN'17), GC of ICDCN'18 and ICDCN'24, Workshop Co-Chair of MobiArch'17 (within ACM SIGCOMM), and TPC Co-Chair of Int. Conf. on Telecommunications (ICT'17). Finally, among the roles I have covered to serve my community, I can list the fact that I was member of the Academic Senate of Alma Mater Studiorum - Università di Bologna (2015-2018), I am the Chair member of the Gruppo Tematico di Ateneo (GTA) on ICT (2022-), and I am elected Chair of the IEEE ComSoc Internet Technical Committee (2021-2024). Additional info at https://www.unibo.it/sitoweb/paolo.bellavista</i></p>
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<p>Descrizione Description:</p>	<p>Associate Editor in Chief of IEEE Communications Surveys and Tutorials</p>
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<p>Descrizione Description:</p>	<p>Editor in Chief of MDPI Computers Journal</p>
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<p>Descrizione</p>	<p>Member of the Academic Senate of Alma Mater</p>
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Description:	Studiorum – Università di Bologna (2015-2018)
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Descrizione Description:	Valutatore di proposte di progetto per varie istituzioni europee, fra cui PEPR Cloud France, FWO Belgium, HFRI Greece, ESF France
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Descrizione Description:	Elected Chair of the IEEE ComSoc Internet Technical Committee (2021-2024)
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DESCRIZIONE DEI PRINCIPALI RISULTATI CONSEGUITI NEGLI ULTIMI 10 ANNI IN TERMINI VALORIZZAZIONE DELLE CONOSCENZE (CON ANNESSO ELENCO DI MASSIMO 3 RISULTATI, RELATIVI ALLA PARTECIPAZIONE DEL CANDIDATO ALLE ATTIVITÀ DI VALORIZZAZIONE DELLE CONOSCENZE) / DESCRIPTION OF THE MAIN RESULTS ACHIEVED IN THE LAST 10 YEARS IN TERMS OF KNOWLEDGE VALORIZATION (WITH ATTACHED LIST OF MAXIMUM 3 RESULTS, RELATING TO THE CANDIDATE'S PARTICIPATION IN KNOWLEDGE VALORIZATION ACTIVITIES):

Descrizione Description:	
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Informazioni aggiornate alla data di candidatura 01-05-2025

PAOLO BELLAVISTA

Il presente curriculum costituisce allegato e parte integrante dell'incarico sottoscritto