

# Curriculum



Nome Name:	Roberto
Cognome Surname:	Aringhieri

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WOS Author ID:	C-6282-2011
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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:	Università degli Studi di TORINO
Nazione Ateneo/Ente/Azienda University/Institution/Company Country:	ITA
Anno inizio Start Year:	2024
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	Università degli Studi di TORINO
Posizione Sede Lavorativi (indicare Nazione e Città) Workplace Location (specify Country and City):	Torino, TO, Italia
Anno inizio Start Year:	2018
Anno fine End Year:	2024
Descrizione Description:	

Qualifica Qualification:	Ricercatore
Ateneo/Ente/Azienda University/Institution/Company	Università degli Studi di TORINO
Posizione Sede Lavorativi (indicare Nazione e Città) Workplace Location (specify Country and City):	Torino, TO, Italia
Anno inizio Start Year:	2008
Anno fine End Year:	2018
Descrizione Description:	

Qualifica Qualification:	Ricercatore
Ateneo/Ente/Azienda University/Institution/Company	Università degli Studi di MILANO
Posizione Sede Lavorativi (indicare Nazione e Città) Workplace Location (specify Country and City):	Crema, CR, Italia
Anno inizio Start Year:	2003
Anno fine End Year:	2008
Descrizione Description:	

## LINGUE / LANGUAGES:

Lingua Language:	Italiano
Scrittura Writing:	madrelingua

Comunicazione Communication:	madrelingua
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Lingua Language:	Inglese
Scrittura Writing:	B2
Comunicazione Communication:	C1

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

Area scientifico-disciplinare Area scientific-disciplinary:	Scienze matematiche e informatiche
Area scientifico-disciplinare codice Area scientific-disciplinary code:	01
Settore scientifico-disciplinare codice Sector scientific-disciplinary code:	-Ricerca operativa
Settore scientifico-disciplinare codice Sector scientific-disciplinary code:	-MATH-06/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):

Descrizione Description:	<p><i>His main skills are in the field of quantitative analysis using Operational Research methodologies and Simulation, and the design of efficient optimization algorithms. Following its educational background and its natural bent, his scientific career is characterized by the ability to change research topics successfully and productively, as shown in his list of papers. As well as other topics as Bioinformatics, Combinatorial Optimization and Simulation and Performance Evaluation, Roberto Aringhieri is working on Healthcare Management Science, especially on emergency medical services, workforce management, operating room planning and clinical pathways optimization. He published 84 papers in blind review, including 34 papers in refereed international journals, 41 in refereed conference proceedings, and 9 book chapters. Further, he published 6 editorials and 8 popular papers. At the end of 2023, he has been a speaker at over 55 scientific conferences, including 10 invited talks. With Davide Duma, he was awarded the Best Conference Paper at International Conference "Simulation and Modeling Methodologies, Technologies and Applications", Wien, 2014, with a paper titled "A</i></p>
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	<p>hybrid model for the analysis of a surgical pathway". <i>Bibliometrics (Scopus, 19 May 2025)</i>: documents 71, citations 1555, h-index 21. From 2015, he is member of the committee for the Ph.D. Program in Computer Science at the University of Turin. He organised of several international conferences (CTW 2008, ORAHS 2010, ESI XXXI 2014, ORAHS 2024), and member of the scientific committee of the international conference organised by the "EURO Working Group" (EWG) on "Operational Research Applied to Health Services" (ORAHS). From 2010, he is member of the EWG board, and from 2019 he is co-coordinator of the EWG. He is member of the program committee of the "International Conference on machine Learning, Optimization &amp; Data science" (LOD). He organised several streams and/or sessions on health care topics at the following international conferences: European Conference on Operational Research (EURO), Conference of the International Federation of Operational Research Societies (IFORS), Winter Simulation Conference (track "Healthcare Applications"). Guest editor of 6 special issues on health care topics published on international journals. From 2016, he is Associate Editor of the international journal "Operations Research for Health Care". From 2023, he is Health Care Systems Area Editor of the international journal "Flexible Services and Manufacturing Journal".</p>
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## PUBBLICAZIONI / PUBLICATIONS:

Anno della pubblicazione Year of publication:	2025
Citazione Citation:	Cunzolo, Matteo Di, Ronzani, Massimiliano, Aringhieri, Roberto, Francescomarino, Chiara Di, Ghidini, Chiara, Guastalla, Alberto, Sulis, Emilio (2025). Robust solutions via optimisation and predictive process monitoring for the scheduling of the interventional radiology procedures. INTERNATIONAL TRANSACTIONS IN OPERATIONAL RESEARCH, vol. 32, p. 2189-2214, ISSN: 0969-6016, doi: 10.1111/itor.13584

Anno della pubblicazione Year of publication:	2023
Citazione Citation:	Duma D., Aringhieri R. (2023). Real-time resource allocation in the emergency department: A case study. OMEGA, vol. 117, p. 1-16, ISSN: 0305-0483, doi: 10.1016/j.omega.2023.102844

Anno della pubblicazione Year of publication:	2022
Citazione Citation:	Aringhieri R., Duma D., Landa P., Mancini S. (2022). Combining workload balance and patient priority maximisation in operating room planning through hierarchical multi-objective optimisation. EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol. 298, p. 627-643,

	ISSN: 0377-2217, doi: 10.1016/j.ejor.2021.07.033
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Anno della pubblicazione Year of publication:	2022
Citazione Citation:	Aringhieri R., Bigharaz S., Duma D., Guastalla A. (2022). Fairness in ambulance routing for post disaster management. CENTRAL EUROPEAN JOURNAL OF OPERATIONS RESEARCH, vol. 30, p. 189-211, ISSN: 1435-246X, doi: 10.1007/s10100-021-00785-y

Anno della pubblicazione Year of publication:	2020
Citazione Citation:	Duma, Davide, Aringhieri, Roberto (2020). An ad hoc process mining approach to discover patient paths of an Emergency Department. FLEXIBLE SERVICES AND MANUFACTURING JOURNAL, vol. 32, p. 6-34, ISSN: 1936-6582, doi: 10.1007/s10696-018-9330-1

Anno della pubblicazione Year of publication:	2019
Citazione Citation:	Duma, Davide, Aringhieri, Roberto (2019). The management of non-elective patients: shared vs. dedicated policies. OMEGA, vol. 83, p. 199-212, ISSN: 0305-0483, doi: 10.1016/j.omega.2018.03.002

Anno della pubblicazione Year of publication:	2019
Citazione Citation:	Aringhieri, Roberto, Grosso, Andrea, Hosteins, Pierre, Scatamacchia, Rosario (2019). Polynomial and pseudo-polynomial time algorithms for different classes of the Distance Critical Node Problem. DISCRETE APPLIED MATHEMATICS, vol. 253, p. 103-121, ISSN: 0166-218X, doi: 10.1016/j.dam.2017.12.035

Anno della pubblicazione Year of publication:	2018
Citazione Citation:	ARINGHIERI, ROBERTO, Bruglieri, Maurizio, Malucelli, Federico, Nonato, Maddalena (2018). A special VRP arising in the optimization of waste disposal: a real case. TRANSPORTATION SCIENCE, vol. 52, p. 277-299, ISSN: 0041-1655, doi: 10.1287/trsc.2016.0731

Anno della pubblicazione Year of publication:	2015
Citazione Citation:	ARINGHIERI, ROBERTO, R. Cordone, GROSSO, Andrea Cesare (2015). Construction and improvement algorithms for dispersion problems. EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol. 242, p. 21-33, ISSN: 0377-2217, doi: 10.1016/j.ejor.2014.09.058

Anno della pubblicazione Year of publication:	2015
Citazione Citation:	ARINGHIERI, ROBERTO, P. Landa, P. Soriano, E. Tànfani, A. Testi (2015). A two level Metaheuristic for the Operating Room Scheduling and Assignment Problem. COMPUTERS & OPERATIONS RESEARCH, vol. 54, p. 21-34, ISSN: 0305-0548, doi: 10.1016/j.cor.2014.08.014

**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>FFABR MIUR, 2017, Research fund for pure research ALBATROSS - AnaLytics and Big dATA for integrated activities RegiOnal healthcare ServiceS. 2025 - 2027. Funded by Fondazione Cassa di Risparmio di Torino, Role: Principal Investigator. MOTIVATE - MOniToraggio e Valutazione dell'impatto della ricerCA e della Terza missionE. 2022 - 2026. Funded by Compagnia San Paolo di Torino, Role: Principal Investigator. BECOME- Big data supporting Emergency Care imprOveMEnt. 2017 - 2019. Funded by Fondazione Cassa di Risparmio di Torino, Role: Principal Investigator.</i>
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Descrizione Description:	FIRB "Futuro in Ricerca" Clinical Pathways: New Patient Centered Organizational and Management Models. 2010 - 2015. Research program "Futuro in Ricerca 2008", Role: Research unit coordinator and co-PI.
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**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>Co-chair of the EURO Working Group on Operational Research Applied to Health Services (ORAHs). From 2019- (ongoing). Visiting Researcher: Montréal, Canada, May – June 2019, Visiting at the Polytechnique Montréal and CIRRELT (Centre interuniversitaire de recherche sur les reseaux d’entreprise, la logistique et le transport) to collaborate with Prof. Nadia Lahrichi on health care research (2 weeks). Visiting Researcher: Paris, France, June 2018. Visiting at the CentraleSupélec to collaborate with Prof. Evren Sahin e Prof. Paolo Ballarin under the project PRECiSE (1 week). Visiting Researcher: Montréal, Canada, June – July 2015, Visiting at the HEC (École des hautes études commerciales de Montréal) and CIRRELT (Centre interuniversitaire de recherche sur les reseaux d’entreprise, la logistique et le transport) to collaborate with Prof. Patrick Soriano on healthcare research (1 month).</i>
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Descrizione Description:	General and Program Chair of 50th ORAHs International Conference Main theme: “Making an impact. Reflecting on 50 years of healthcare operational research”, 2024.
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Descrizione Description:	General and Program Chair WHO-EURO Winter School of Operational Research in Public Health Emergencies (ORPHES), 2022
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Descrizione Description:	General and Program Chair EURO Summer Institute XXXI (ESWI): OR applied to Health in a Modern World, 2014
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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>Special volume Guest Editor - Title: ORAHS 2022: Operations Research for Health Care in Red Zone, 2022 - 2023. Volume 10 on "Airo Springer Series", with Ettore Lanzarone (University of Bergamo), Giovanni Righini (University of Milano) and others. Special issue Guest Editor - Title: Operations Research Applied to Health Services in Times of Crisis, 2020 - 2022. Special issue on "Central European Journal of Operations Research" (Springer), with Marion Rauner (University of Wien) and others. Special issue Guest Editor - Title: Management Science in the Fight Against Covid-19, 2020 - 2021. Special issue on "Health Care Management Science" (Springer), with Alec Morton (University of Strathclyde) and others. Special issue Guest Editor - Title: ESI XXXI - OR applied to Health in a Modern World, 2014 - 2015. Special issue on "Health Systems" (Taylor &amp; Francis), with Vincent Knight (Cardiff University) and Honora Smith (University of Southampton). Special issue Guest Editor - Title: ESI XXXI - OR applied to Health in a Modern World, 2014 - 2015. Special issue on "Operations Research for Healthcare" (Elsevier), with Vincent Knight (Cardiff University) and Honora Smith (University of Southampton).</i></p>
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<p>Descrizione Description:</p>	<p>Health Care Systems Area Editor Flexible Services and Manufacturing Journal, Springer, 2023 - ongoing.</p>
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<p>Descrizione Description:</p>	<p>Associate Editor Operations Research for Health Care, Elsevier, 2016 - ongoing.</p>
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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 20-05-2025**

**Roberto Aringhieri**

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