

Paolo Tubertini

School Address

Dipartimento dell'Energia Elettrica e dell'Informazione
Università di Bologna
Viale Risorgimento, 2
40136 Bologna, Italy

PERSONAL INFORMATION

Gender: Male *E-mail address:* paolo.tubertini@unibo.it
Birthday: February 14, 1986 *Citizenship:* Italian

CURRENT POSITION

Assistant Professor, Operations Research,
Dipartimento di Ingegneria dell'Energia Elettrica e dell'Informazione "Guglielmo Marconi" - DEI
Alma Mater Studiorum - Università di Bologna, Bologna since November 2015

PAST POSITIONS

Postdoctoral Fellow, Operations Research,
Dipartimento di Ingegneria dell'Energia Elettrica e dell'Informazione "Guglielmo Marconi" - DEI
Alma Mater Studiorum - Università di Bologna, Bologna from March 2014 to October 2015

EDUCATION

Doctor of Philosophy (Ph.D.), Automatic Control Systems and Operational Research,
Dipartimento di Ingegneria dell'Energia Elettrica e dell'Informazione "Guglielmo Marconi" - DEI
Alma Mater Studiorum - Università di Bologna, Bologna April 2014
Thesis: "Operational Research applied to Regional Healthcare System"
Advisor: Professor Andrea Lodi

Engineering licence, Industrial Engineering February 2012

Master of Engineering, Engineering Management
Alma Mater Studiorum - Università di Bologna, Bologna December 2010
Grade: 110/110 cum Laude
Thesis: "Regional Health-care Service planning via numerical simulation"
Areas: Discrete event simulation
Advisors: Professor Andrea Lodi and Professor Alberto Caprara

Bachelor of Engineering, Engineering Management July 2008
Alma Mater Studiorum - Università di Bologna, Bologna
Grade: 110/110 cum Laude
Thesis: "Business simulation analysis group UNIBO021"
Area: Business Administration and Combinatorial Optimization
Advisor: Professor Andrea Zanoni

High school Diploma, Scientific Lyceum July 2005
Liceo Scientifico G.Ricci Curbastro, Lugo
Grade: 100/100

PUBLICATIONS

- [1] **Forecasting future needs and optimal allocation of medical residency positions: the Emilia-Romagna Region case study.** F. Senese, P. Tubertini, A. Mazzochetti, A. Lodi, C. Ruozi, R.Grilli. *Human Resources for Health*, 13:7, 2015
- [2] **Pre-operative activities and Operating Theater planning in Emilia-Romagna, Italy.** A. Lodi, P. Tubertini. *Optimization in the Real World – Towards Solving Real-World Optimization Problems–*, 2015
- [3] **Emergency room management in Lazio, Italy.** G. Leo, A. Lodi, P. Tubertini, M. Di Martino. Omega, 2016
- [4] **Needs Forecast and Fund Allocation of Medical Specialization Positions in Emilia-Romagna (Italy) by System Dynamics and Integer Programming.** A. Lodi, P. Tubertini, R. Grilli, A. Mazzochetti, C. Ruozi, F. Senese. *Health Systems* 2015
- [5] **Tactical versus Operational discrete event simulation: a Breast Screening case study.** A. Lodi, P. Tubertini, R. Grilli, F. Senese, *ECMS 2014 Proceedings Book*, 2014
- [6] **Kidney Exchange Problem: a simulation-optimization approach.** N. Santos, P. Tubertini, J.P. Pedroso, A. G. Viana. *Accepted on December 2016 by the Journal of the Operational Research Society*

AWARDS

- Omega Best Reviewer Award 2014

RESEARCH ACTIVITIES

- Scientific Collaborator of **Azienda USL di Bologna**, Project: *“Operations Research in Health, Analytics Methods for optimizing resources utilization”*, March 2017 - March 2020
- Chair of Working Group 2 *“National KEPs: models, optimisation methods and technology”* of European COST Action, **European Network for Collaboration on Kidney Exchange Programmes**, September 2016 - September 2020
- Enrolled in the Register of Experts and Collaborators of AGENAS Agenzia Nazionale per i Servizi Sanitari Regionali for Area 1: **Economic / Management - Legal / Administrative and Management training** and Area 2: **Information technology**, June 2016 -
- Enrolled as Senior Profile in the Register of Experts and Collaborators of AGENAS Agenzia Nazionale per i Servizi Sanitari Regionali for Area 7 **Analysis, monitoring and evaluation of healthcare organizations performances. Economic-Management/ Technical-administrative** December 2016 -
- Italian Member of the Management Committee of European COST Action, **European Network for Collaboration on Kidney Exchange Programmes**, May 2016 - September 2020
- Collaborator of EPSRC Impact Acceleration Account / NHS Blood and Transplant, **Algorithms for Paired and Altruistic Kidney Exchange**, January 2015 - September 2015
- Collaborator of ORMResearch - Operating Room Management Research Team, **Operating Room planning and scheduling**, May 2014 -
- Collaborator of Dipartimento di Epidemiologia del Lazio, **Emergency department management**, July 2013 -
- Consultant of Agenzia Sanitaria e Sociale Regionale dell’Emilia Romagna and partner of European Joint Action Health Workforce Planning and Forecasting, **Forecast and fund allocation of medical residency grants**, January 2013 -

Conference Talks and Contributions

- M. Buccioli, V. Cacchiani, A. Lodi, P. Tubertini,
“Tactical and operational optimization of Operating Theaters: a multi-level decision support system”
ORAHS 2015, Montreal, July 2015
- N. Santos P. Tubertini, J.P. Pedroso, A. G. Viana,
“Kidney Exchange Problem: a simulation-optimization approach”
Optimization 2014, Guimaraes, July 2014
- G. Leo, A. Lodi, P. Tubertini,
“Emergency room management in Lazio, Italy”
ORAHS 2014 For Better Practices in Health Care Management, Lisbon, July 2014
- A. Lodi, P. Tubertini, R. Grilli, A. Mazzochetti, C. Ruozi, F. Senese,
“Forecast and Fund Allocation of Medical Specialty Positions in Emilia-Romagna by System Dynamics and Integer Programming”
XXXI EURO Summer Institute on Operational Research applied to Health in a Modern World, Bard, June 2014
- A. Lodi, P. Tubertini, R. Grilli, F. Senese,
“Tactical versus operational discrete event simulation: a Breast Screening case study”
28th European Conference on Modelling and Simulation (ECMS) 2014, Brescia, May 2014
- A. Lodi, P. Tubertini,
“Operations Research methods and applications in the Emilia-Romagna Healthcare System”
Seminar at Health Economics and Management Master, Bologna, March 2014
- F. Senese, R. Grilli, C. Ruozi, A. Lodi, P. Tubertini, A. Mazzochetti,
“Applying a System Dynamics model to forecast future medical workforce in the Emilia-Romagna Regional NHS”
XVIII National Conference of Italian Health Economics Association, Trento, November 2013
- A. Caprara, A. Lodi, E. Malaguti, D. Thomopulos, P. Tubertini,
“Data center machines reassignment problem models and computations”,
26th European Conference on Operational Research, Roma, July 2013
- A. Lodi, P. Tubertini,
“Pre-operative activities and Operating Room planning: A Local Hospital Department case study”,
INFORMS Annual meeting 2012, Phoenix, October 2012
- A. Caprara, A. Lodi, F. Senese, P. Tubertini, R. Grilli,
“Health planning via Discrete Event Simulation: A breast screening case study”,
ORAHS 2012 HIGH TECH HUMAN TOUCH, Enschede, July 2012

Teaching Activities

- Co-supervisor of Bachelor and Master thesis on: Operating room planning and scheduling, Physician rostering, Nurse triage, Emergency Department management
- Operational Research expert member of 2012, 2013, 2014, 2015 and 2016 “Esame di Stato per l’abilitazione all’esercizio della professione di Ingegnere” panel
- Teaching assistant of “Fondamenti di Ricerca Operativa T-A (L-Z)” A.A. 2011/2012, 2012/2013, 2013/2014 and 2014/2015, course of Ingegneria Gestionale

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base art. 13 del D. Lgs. 196/2003
Ai sensi dell’art. 15 co. 1 lett. c) del Decreto Legislativo 33/2013 ed in ottemperanza delle disposizioni del D.P.R. 445/2000 il sottoscritto Paolo Tubertini nato a Lugo il 14/02/1986. Dichiaro di svolgere incarichi e/o avere titolarità di cariche di diritto privato regolati o finanziati dalla pubblica amministrazione e/o di svolgere attività professionali, come di seguito specificati: (i) Tutor didattico per l’insegnamento di FONDAMENTI DI RICERCA OPERATIVA T-A A.A. 2014-2015 (ii) Membro esperto Commissione esame di stato 2015 per l’abilitazione alla professione di Ingegnere