Luca Di Gaspero

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Current position

Associate Professor of Information Technology, University of Udine

Other affiliations

Privatdozent in Angewandte Informatik, Instut für Computergraphik und Algorithmen
Technische Universität Wien, Austria

Areas of specialization

Metaheuristics • Combinatorial Optimization • Scheduling & Timetabling • Vehicle Routing •
Data Analysis

Areas of competence

Computer Science • Artificial Intelligence and Machine Learning • Web Technologies

Author IDs

Open Researcher and Contributor ID ORCID: 0000-0003-0299-6086
Thomson Reuter ResearcherID: A-3315-2009
Elsevier Scopus Author ID: 6505944235
Google Scholar: fIES7P0AAAAJ

Education and qualifications

Education

1999–2003 **PhD in Computer Science**
University of Udine, Italy
Supervisor: prof. Andrea Schaerf, University of Udine

1993–1998 **Master of Science in Computer Science**
University of Udine, Italy
Supervisors: prof. Vito Roberto, dr. Vincenzo della Mea

Professional qualifications

2017 **Full Professor Habilitation** (Information Technology)
Italian Ministry of Education, University, and Research

2017 **Full Professor Habilitation** (Computer Science)
Italian Ministry of Education, University, and Research

2015 **Associate Professor Habilitation** (Computer Science)
Italian Ministry of Education, University, and Research

2014 **Habilitation in Angewandte Informatik** (Applied Computer Science)
Technische Universität Wien, Austria

2013 **Associate Professor Habilitation** (Information Technology)
Italian Ministry of Education, University, and Research

2003 **Habilitation as Professional Information Engineer**
University of Udine, Italy

Appointments held

Research

2005–present **Senior lecturer of information technology** (current position)
University of Udine, Italy
Department of Engineering and Architecture

2005–2008 **Lecturer of information technology**
University of Udine, Italy
Department of Electrical, Mechanical and Management Engineering

2003–2005 **Research fellow**
University of Udine, Italy
Department of Electrical, Mechanical and Management Engineering

Visits to research institutions

2011 **Technische Universität Wien**, Austria (2.5 months)
Institut für Computergraphik und Algorithmen
Guest Professor for the Summer Semester 2011, hosted by prof. Günther Raidl

2004 **Technische Universität Graz**, Austria (2 weeks)
Institut für Softwaretechnologie
hosted by prof. Wolfgang Slany

2000–2001 **Centrum voor Wiskunde en Informatica**, Amsterdam, The Netherlands (8 months)
Algorithms, Combinatorics and Optimization group
hosted by prof. Krzysztof R. Apt

Other appointments

1998   **Redesign of the students careers DB**
University of Udine, Italy
Redesign of the students careers DB and platform porting from DBMS DB/2 on IBM AS/400 to
Microsoft SQL Server 6.5 on Windows NT

Teaching

2011–present   **Data Analytics** (in English, 6 ECTS)
University of Udine, School of Engineering
MS in Management Engineering, MS in Electronic Engineering

2016–present   **Programming Basics: Algorithms and Data Structrures** (6 ECTS)
University of Udine, School of Engineering
MS in Management Engineering

2016–present   **Programming with Python** (15 hours)
University of Padua
Phd Programme in Statistical Sciences

2011–2015   **Web Applications** (in English, 6 ECTS)
University of Udine, School of Engineering
MS in Management Engineering, MS in Electronic Engineering

2014–present   **R for statistical analysis of experimental data** (4 hours)
University of Udine
Phd Programme in Industrial and Information Engineering

2011 WS, 2012 WS,   **Modeling and Solving Constrained Optimization Problems** 186.816 (3 ECTS)
2013 WS   *Technische Universität Wien*, Austria
Facultät für Informatik

2011/2012   **C Programming Basics** (6 ECTS)
University of Udine, School of Engineering
BS in Mechanical Engineering

2011 SS   **Modeling and Solving Constrained Optimization Problems** 186.811 (VU 2.0)
Technische Universität Wien, Austria
Facultät für Informatik

2009/2010   **Web Technologies** (10 ECTS)
University of Udine, School of Educational Sciences
BA in Multimedia Sciences and Technologies

2003–2009 **Database Systems** (5 ECTS)
University of Udine, School of Educational Sciences
BA in Multimedia Sciences and Technologies

2002–2009 **Server-side Web Programming** (3 ECTS)
University of Udine, School of Educational Sciences
BA in Multimedia Sciences and Technologies

2008 **Programming Mobile Devices** (20 hours)
ALFORM (Regional Research and Innovation Network, Friuli–Venezia Giulia)
Professional qualification in "ICT Technologies"

2001–2005 **C Programming Basics** (6 ECTS)
University of Udine, School of Engineering
BS in Mechanical/Electronic/Industrial Engineering

2003 **Introduction to Server-side Web Programming** (2 hours)
University of Udine, School of Educational Sciences
MS in Open & Distance Learning

2003 **Computer Architectures Laboratory** (60 hours)
University of Udine, School of Mathematical Sciences
BS in Computer Science

2003 **Advanced Java Programming techniques** (40 hours)
DataConsult s.p.a., Pordenone
Professional qualification

2000 **TA of Semantics of Programming Languages** (10 hours)
University of Udine, School of Mathematical Sciences
MS in Computer Science

1999 **Introduction to Programming with Java** (10 hours)
University of Udine, School of Literature and Philosophy
MA in Conservation of Cultural Heritage

1998 **TA of Network Programming in Java** (10 hours)
University of Udine, School of Mathematical Sciences
MS in Computer Science.

2000 **Java Object Oriented Programming** (24 hours)
Professional qualification for secondary school teachers
Istituto Tecnico Commerciale "A. Zanon", Udine

2000 **Java Programming** (24 hours)
Professional qualification
IAL Udine

1999 **Java Programming for the Web** (43 hours)
Professional qualification
IAL Udine

PhD-level courses

2020–presente **Programming Methodologies for Data Analysis** (18 hours)
Università degli Studi di Padova
PhD School in Statistical Sciences

2016–2019 **Programming with Python** (15 hours)
Università degli Studi di Padova
PhD School in Statistical Sciences

2014–2015 **R for statistical analysis of experimental data** (4 hours)
Università degli Studi di Udine
PhD School in Industrial and Information Engineering

2017–presente **Python for statistical analysis of experimental data** (4 hours)
Università degli Studi di Udine
PhD School in Industrial and Information Engineering

2019–presente **Nature Inspired Optimization** (3 hours)
Università degli Studi di Udine
PhD School in Industrial and Information Engineering

Selected Master Students

2013 **Andrea Mattiuz**
Mobile advertising: analisi dello stato dell'arte e sviluppo di un'applicazione (Mobile Advertising: state-of-the-art analysis and development of a case study)
Master in Information Engineeering – Università degli Studi di Udine, Italy
Supervisor

2012 **Ivan Ivezić**
Extending the Gecode Framework with Interval Constraint Programming
Master in Computational Intelligence – Technische Universität Wien, Austria
Co-supervisor (with prof. Günther Raidl)

2006 **Raffaele Cipriano**
Un Tool Integrato per il Rostering Ospedaliero (An Integrated Tool for Nurse Rostering)
Master in Computer Science – Università degli Studi di Udine, Italy
Winner of one of the four national AICA/Federcomin prizes for the best master thesis in ICT.
Co-supervisor (with prof. Agostino Dovier)

2005 **Luca Vassena**
Inferenze e gestione di contesti nell'architettura MoBe: analisi critica e fattibilità (Inferences and contexts management in the MoBe architecture: critical analysis and feasibility)
Master in Computer Science – Università degli Studi di Udine, Italy
Winner of one of the four national AICA/Federcomin prizes for the best master thesis in ICT.
Co-supervisor (with prof. Stefano Mizzaro)

PhD Students

2011–present **Tommaso Urli**
Machine Learning Techniques applied to algorithm selection in Combinatorial Optimization
Supervisor

2007–2010 **Raffaele Cipriano**
On the Hybridization of Constraint Programming and Local Search Techniques: Models and Software Tools
Co-supervisor (with prof. Agostino Dovier)

Research

Research activities

1999–present **Local Search Metaheuristics in combinatorial optimization**
Starting from my graduate studies [T2], my principal research interest consists on the application of local search metaheuristics to various combinatorial optimization problems, mainly in the fields of Scheduling [IP50, IP58, IP57, IJ22] and Timetabling [IP66, IP68, IP62, IP59].
Other problems taken into account (also with different metaheuristics) were in the fields of computational finance [IP35, IP33], computational genomics [IJ21, IP26], virtual reality [IP31], and sustainable mobility [IP15, IP14].

2006–present **Statistical analysis of local search metaheuristics**
A recent research line I am pursuing concerns the statistical analysis of some fundamental components of local search algorithms.
In [IP43] a statistical analysis of tabu search features on an algorithm for Graph Coloring and Examination Timetabling Problems is presented. [IP45]. In [NP1, IP25], instead, there is an analysis of tabu search applied to Course Timetabling problems. The analysis has been conducted through a novel design of experiments (based on Non-Orthogonal Latin Hypercubes) and the data has been analyzed by means of Response-Surface Analyses.
A similar work for the simulated annealing algorithm applied to the Generalized Balanced Academic Curriculum Problem has been reported in [IP32].

2006–present **Hybridization of local search**
I investigated the hybridization of local search with other search paradigms such as Constraint Programming [IP41, IP22, IP14], Quadratic Programming [IP35, IP33], and (Integer) Linear Programming.

2002–present **Software tools for metaheuristics**
I worked in the development of an object-oriented software framework for local search called *EasyLocal++* [IJ27] and of a set of tools for easing the development [IP38] and the experimental analysis of local search algorithms [IP37].
[IP21] presents an object-oriented software framework for genetic algorithms.

2005–2010 **Context-aware applications for mobile devices**
I took part in the design of a software architecture for the retrieval and execution of context-aware applications on mobile systems [IP47, IP49, IP48]. The complete architecture, called "Context-Aware Browser" has been presented at the 5th International Conference on Prestigious Applications of Intelligent Systems (PAIS 2008) [IP28] and published in IEEE Intelligent Systems [IJ19].

2005–2006 **Measures of performance in Information Retrieval**
I worked in the definition and the experimentation of an Information Retrieval measure called ADM (Average Distance Measure).
The idea behind ADM [IP53, IP42] is to overcome the usual view of binary relevance/retrieval and to extend these concepts to a continuous case.

1997–1998 **Multi-Agent Systems for hypermedia documents**
During my Master thesis [T3] I worked on an implementation of a Multi-Agent System for the management of hypermedia documents in the telemedicine field, mainly focusing on the knowledge communication and knowledge sharing issues.

Seminars and tutorials

2013 **The EasyLocal ecosystem: a set of tool for the development and the analysis of Local Search algorithms**
Johannes Kepler Universität Linz, Austria
Department of Production and Logistics Management

2013 **The EasyLocal ecosystem: a set of tool for the development and the analysis of Local Search algorithms**
Universität Wien, Austria
Department of Business Studies

2010 **The Context Aware Browser**
Rijksuniversiteit Groningen, The Netherlands
Instituut voor Wiskunde en Informatica

2007 **An overview of software framework for SLS methods** (Invited tutorial)
International workshop SLS 2007 – Engineering Stochastic Local Search — Designing, Implementing and Analyzing, Effective Heuristics, Brussels, Belgium

2005 **Local Search meta-heuristics for combinatorial problems**
Università degli Studi "G. D'Annunzio", Pescara, Italy
Dipartimento di Scienze

2004 **EasyLocal++: an object-oriented framework for flexible design of local search algorithms**
Technische Universität Graz, Austria
Institut für Software Technology

2003 **EasyLocal++: an object-oriented framework for flexible design of local search algorithms**
Università degli Studi di Trieste, Italy
Dipartimento di Elettronica, Elettrotecnica e Informatica

2002 **EasyLocal++: an object-oriented framework for flexible design of local search algorithms**
Università degli Studi di Udine, Italy
Dipartimento di Ingegneria Elettrica, Gestionale e Meccanica

2002 **EasyLocal++: an object-oriented framework for flexible design of local search algorithms**
Università degli Studi "G. D'Annunzio", Pescara, Italy
Dipartimento di Scienze

2001   **The development of Local Search algorithms using EasyLocal++**
Università degli Studi di Udine, Italy
Dipartimento di Matematica e Informatica

2001   **God saves the Queen(s)?**
Capitan Araña session
Centrum voor Wiskunde en Informatica, Amsterdam, The Netherlands

2000   **Local Search Techniques and Tools forCSPs**
Logic & Constraints Seminar series *Centrum voor Wiskunde en Informatica*, Amsterdam, the Netherlands

2000   **Multiagent Systems & Search**
Università degli Studi di Udine, Italy
Dipartimento di Matematica e Informatica

2000   **SAT algorithms in multi-valued propositional logics**
Università degli Studi di Udine, Italy
Dipartimento di Matematica e Informatica

Software and data made available to the Scientific Community

Software

2008–present   **TTP validator**
A web validator for solutions of the Traveling Tournament Problem (available at http://satt.diegm.uniud.it/ttp)

2007–present   **QUADPROG++**
A C++ implementation of the Goldfarb-Idnani dual active set algorithm for quadratic programming problems

2006–present   **CB-CTT Problem Management System**
A web application for instance and solution validation, described in [IJ14]

2003–present   **EASYLOCAL++**
A C++ framework for local search whose aim is to simplify the implementation of local search algorithms

Problem instances

2006   **CourseTT**
A dataset for the Course Timetabling problem employed in [IJ25]

2007   **ITC-2007**
A dataset for the Course Timetabling problem, employed in the Second International Timetabling Competition (ITC-2007)

2010   **Portfolio**
A dataset of real stock-exchange data (2001-2006) for the Portfolio Selection problem for a problem currently under investigation

Participation in scientific projects

2017   **Fondo per il finanziamento delle attività base di ricerca (FFABR)** funded by the Italian Ministry of Education, Research and University and granted to the top 25% associate processors

2013–present   **Study and development of methodologies, algorithms, and software for process optimization of ready-mixed concrete delivery** (Principal investigator)
funded by *Ateikon S.r.l.*, Treviso, Italy

2007–2011   **EasyCourse** (Co-investigator)
funded by *EasyStaff S.r.l.*, Udine, Italy

2006–2007   **Intelligent Mobile Devices through Interconnected Ambients** (Principal investigator)
funded by *C.R.S. S.r.l.*, Gemona, Italy

2006–2007   **Intelligent Mobile Devices through Interconnected Ambients** (Principal investigator)
funded by *C.R.S. S.r.l.*, Gemona, Italy

2006–2007   **Design and Development of an Open Source Geomarketing Infrastructure within the Regional Open Source Community** (Co-investigator)
funded by *OverIT S.r.l.*, Fiume Veneto, Italy
Joint project with dr. Stefano Mizzaro, Department of Mathematics and Computer Science, University of Udine, Italy

2005–2006   **Design and Development of a new technology based on the "Cluster Model" for the automation and optimization of "Field Service" processes in a Customer Interaction Management Architecture** (Co-investigator)
funded by *OverIT S.r.l.*, Fiume Veneto, Italy
Joint project with dr. Stefano Mizzaro, Department of Mathematics and Computer Science, University of Udine, Italy

2004–2005   **Autoadaptive system for mobile communication devices through residential ambients** (Co-investigator)
funded by *C.R.S. S.r.l.*, Gemona, Italy
Joint project with drs. Paolo Coppola, Vincenzo Della Mea, Stefano Mizzaro and Ivan Scagnetto, Department of Mathematics and Computer Science, University of Udine, Italy

2003–2005   **Design and implementation of a solver based on local search for the execution of declarative specifications for combinatorial problems** (Investigator)
funded by the *Italian Ministry of University and Research* under grant PRIN 2003
Coordinator prof. Marco Cadoli, University of Rome "La Sapienza"

2003–2004   **Floating Automotive Data Collection** (Co-investigator)
funded by the *European Commission* under the line Asia ITC
Joint project with prof. Andrea Schaerf and the Vlaamse Instelling voor Technologisch Onderzoek, Mol, Belgium

2003–2004   **EasyLocal++ foundation classes** (1 year PostDoc fellowship)
funded by the *European Social Fund*, Measure D4 – "Improvement of HR in the research and technology development sectors"

2000–2001   **Improvements of an object-oriented framework for Local Search** (Principal investigator)
Young Researchers Project funded by the *University of Udine*, Italy

Prizes

2021 **International Timetabling Competition on Sports Timetabling**
2nd place in the Computational Competition

Service to the profession

Advisory

Journal reviews

4OR: A Quarterly Journal of Operations Research (Springer)
Annals of Mathematics and Artificial Intelligence (Springer)
Annals of Operations Research (Springer Netherlands)
Applied Soft Computing (Elsevier)
Artificial Intelligence in Medicine (Elsevier)
Central European Journal of Operations Research (Springer)
Computer and Operations Research (Elsevier)
Computers & Graphics (Elsevier)
Computers & Industrial Engineering (Elsevier)
Constraints: an International Journal (Springer Netherlands)
Discrete Applied Mathematics (Elsevier)
European Journal of Operational Research (Elsevier)
IEEE Transaction on Evolutionary Computation (IEEE Press)
IEEE Transaction on Systems, Man and Cybernetics (IEEE Press)
Information Society (Routledge)
Information & Software Technology (Elsevier)
INFORMS Journal on Computing (INFORMS Computing Society)
International Journal of Computational Intelligence Research (Research India Publications)
International Journal of Operations Research (Interscience publishers)
International Transactions in Operational Research (Blackwell publishing)
Journal of Artificial Intelligence Research (AI Access Foundation)
Journal of Global Optimization (Springer Netherlands)
Journal of Heuristics (Springer US)
Journal of Mathematical Modeling and Algorithms (Springer Netherlands)
Memetic Computing (Springer)
Operations Research Letters (Elsevier)
Personal and Ubiquitous Computing (Springer London)
Quantitative Finance (Taylor & Francis)
Soft Computing (Springer)
Swarm Intelligence (Springer US)
Transportation Science (INFORMS Computing Society)

Program Committee membership

2018, 2020, 2022, 2023	**WIVACE** *Workshop on Artificial Life and Evolutionary Computation*
2010–2023	**LION** *International Workshop on Learning and Intelligent Optimization*
2021–2022	**IAAI** *AAAI Conference on Innovative Applicatons of Artificial Intelligence*
2021–2022	**ICMLA** *IEEE International Conference on Machine Learning and Applications*
2017–2022	**LOD** *The International Conference on Machine Learning, Optimization and Big Data (up to 2017 MOD)*
2008–2022	**PATAT** (biannual) *International Conference on Practice and Theory of Automated Timetabling*
2020	**CP-AI-OR** *International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research*
2012–2020	**ANTS** (biannual) *International Conference on Swarm Intelligence*
2009–2019	**GECCO** – Tracks on Evolutionary Combinatorial Optimization and Metaheuristics (ECOM) *Genetic and Evolutionary Computation Conference*
2017–2018	**EvoCOP** *European Conference on Evolutionary Computation in Combinatorial Optimisation*
2012–2018	**PPSN** (biannual) *International Conference on Parallel Problem Solving from Nature*
2006,2008,2016–2018	**RCRA** RCRA workshop on Experimental Evaluation of Algorithms for Solving Problems with Combinatorial Explosion
2016–2017	**IEEE CEC** *Congress on Evolutionary Computation*
2009–2017	**MIC** (biannual) *Metaheuristics International Conference*
2005–2019	**HM** *International Workshop on Hybrid Metaheuristics*
2016	**CP-DP** *22nd International Conference on Principles and Practice of Constraint Programming, Doctoral Programme*
2014	**ICSIBO 2014** *International Confernce on Swarm Intelligence Based Optimization*
2011	**IJCAI 2011** *22nd International Joint Conference on Artificial Intelligence*

2007–2011 **SLS** (biannual)
International Workshop on Engineering Stochastic Local Search Algorithms

2009 **ISDA 2009**
9th International Conference on Intelligent System Design and Application

2008 **HIS 2008**
8th International Conference on Hybrid Intelligent Systems 2008

2006 **LSCS 2006**
1st International Workshop on Local Search Techniques in Constraint Satisfaction

Conference reviews

2018 **ECAI-IJCAI 2018**
27th International Joint Conference on Artificial Intelligence and 23rd European Conference on Artificial Intelligence

2018 **AAAI 2018**
32nd AAAI Conference on Artificial Intelligence

2017 **CP 2017**
23rd International Conference on Principles and Practice of Constraint Programming

2017 **IJCAI 2017**
26th International Joint Conference on Artifical Intelligence

2016 **IJCAI 2016**
25th International Joint Conference on Artifical Intelligence

2016 **AAAI 2016**
30th AAAI Conference on Artificial Intelligence

2015 **IJCAI 2015**
24th International Joint Conference on Artifical Intelligence

2015 **CP 2015**
21st International Conference on Principles and Practice of Constraint Programming

2011 **SEA 2011**
10th International Symposium on Experimental Algorithms 2011

2009 **PPDP 2009**
*11th International ACM SIGPLAN Symposium on Principles and Practice of Declarative Programming*10th International Symposium on Experimental Algorithms 2011

2008 **ICLP 2008**
24th International Conference on Logic Programming

2007 **AAAI 2007**
22nd AAAI Conference on Artificial Intelligence

2006 **MICAI 2006**
5th Mexican International Conference on Artificial Intelligence

2005 **MIC 2005**
6th Metaheuristics International Conference

2005 **ICTA 2005**
5th International Conference on Technology and Automation

2003 **IJCAI 2003**
18th International Joint Conference on Artificial Intelligence

2002 **ICALP 2002**
International Colloquium on Automata, Languages and Programming

Organization of scientific events

2022 **MIC 2022** (General Co-chair)
14th Metaheuristics International Conference
Syracuse, Italy

2018 **PATAT 2018** (General Co-chair)
12th International Conference on Practice and Theory of Automated Timetabling
Vienna, Austria

2016 **PATAT 2016** (General Co-chair)
11th International Conference on Practice and Theory of Automated Timetabling
Udine, Italy

2011 **MIC 2011** (General Co-chair)
9th Metaheuristics International Conference
Udine, Italy

2011 **ITC-2011** (Co-organizer)
Third International Timetabling Competition

2009 **HM 2009** (General co-chair)
6th International workshop on Hybrid Metaheuristics
Udine, Italy

2008 **RCRA 2008** (Local organizer)
15th RCRA workshop on Experimental Evaluation of Algorithms for Solving Problems with Combinatorial Explosion
Udine, Italy

2008 **ICLP 2008** (Member of the local organization committee)
24th International Conference on Logic Programming
Udine, Italy

2007 **ITC-2007** (Track Co-organizer)
Second International Timetabling Competition

2003 **Mobile HCI 2003** (Member of the local organization committee)
5th International Symposium on Human Computer Interaction with Mobile Devices and Services
Udine, Italy

2002 **WFLP 2002** (Member of the local organization committee)
11th International Workshop on Functional and (constraint) Logic Programming
Grado, Italy

Participation in PhD Defense Committees and PhD thesis reviews

2021 Reviewer of the PhD thesis in Applied Mathematics of Prachi Agrawal, National Institute of Technology Hamirpur, India.

2019 Opponent at the PhD Defense of Jussi Rasku, Faculty of Information Technology at the University of Jyväskylä, Finland.

2019 Member of the PhD Defense Committee (Doktor der Technische Wissenschaften) of Johannes Maschler, Tecnische Universität Wien, Austria.

2017 Member of the PhD Defense Committee (Doktor der Technische Wissenschaften) of Michael Abseher, Tecnische Universität Wien, Austria.

2017 Member of the PhD Defense Committee (International PhD in Information & Communication Technology) of Shahriar Mahbub, Università degli Studi di Trento, Italy.

Evaluation Panel of Research Activity Prizes

2015–2016 Member of the evaluation panel for the prize **Dissertationspreis und Diplomarbeitspreis 2015 für Operations Research** granted by the Österreichische Gesellschaft für Operations Research (ÖGOR).

Evaluation of research projects and membership of evaluation committees

2021–2026 **Member of the Technical Evaluation Committee**
ITC Expert Regione Autonoma Friuli Venezia Giulia, Italy

2021–present **Member of the ESF College of Expert Reviewers**
European Science Foundation – Strasbourg, France

2021 *Ex-ante* **Research Proposal Evaluator for Post-doctoral FWO projects**
Flanders Research Foundation (FWO) on behalf of the European Science Foundation
Belgium

2020 *Ex-ante* **Research Proposal Evaluator for Post-doctoral FWO projects**
Flanders Research Foundation (FWO) on behalf of the European Science Foundation
Belgium

2019 *Ex-ante* **Research Proposal Evaluator for the Veni program**
Netherlands Organization for Scientific Research (NWO)
The Netherlands

2019   ***Ex-ante* Research Proposals Evaluator for Doctoral and Post-doctoral projects**
Research for Innovation – REFIN Initiative
Apulia Region, Italy

2018   **Member of the evaluation panel of "FWO doctoral fellowships strategic basic research"**
Flanders Research Foundation (FWO)
Belgium

2017   ***Ex-ante* Research Proposal Evaluator**
for the Universiteit Antwerpen, Belgium
call BOF – TOP Projects

2017   **Member of the evaluation pool of "FWO doctoral fellowships strategic basic research"**
Flanders Research Foundation (FWO)
Belgium

2016   ***Ex-ante* Research Proposal Evaluator**
for the University of Sasssari, Italy
call Fondazione di Sardegna funded Projects

2015   ***Ex-ante* Research Proposal Evaluator**
for the University of Verona, Italy
call Joint Projects

2015   ***Ex-post* Research Project Evaluator**
for the Autonomous Province of Trento, Italy
call FESR 2/2011

2013   ***Ex-ante* Research Proposal Evaluator**
for the Fonds Wetenschappelijk Onderzoek, Belgium

2013   ***Ex-ante* Research Proposal Evaluator**
for the Autonomous Province of Trento, Italy
call Provincial Law 6/1999, 2013

2012   ***Ex-ante* Research Proposal Evaluator**
for the Autonomous Province of Trento, Italy
calls POR/FESR, 2012 and Provincial Law 6/1999, 2012

2012   ***Ex-post* Research Project Evaluator**
for the Autonomous Province of Trento, Italy
call Provincial Law 6/1999, 2010

2009–2010   ***Ex-ante* Research Proposal Evaluator**
for the Autonomous Province of Trento, Italy
calls POR/FESR, 2009 and Provincial Law 6/1999, 2010

Doctoral program board membership

2021–present   **Doctoral programme in Informatics and Artificial Intelligence**
University of Udine, Italy
Member of the board of the doctoral program

| 2009–2021 | **Doctoral programme in Industrial and Information Engineering**
University of Udine, Italy
Member of the board of the doctoral program |

Affiliations

| 2001-present | **EU/ME**
European Chapter on Metaheuristics |
| 1999–present | **AI*IA**
Italian Association for Artificial Intelligence |
| 2000-present | **WATT**
Working Group on Automated Timetabling |
| 2014-present | **ACP**
Association for Constraint Programming |

Other activities and skills

Entrepreneurial activity

| 2006–2016 | **MoBe s.r.l**. (co-owner)
Spin-off of the University of Udine specializing in R&D on context-aware software for mobile devices |

Editor of book italian translations

2004   B. Eckel *Thinking in Java (seconda edizione)* (801pp.) Italian translation edited by **Luca Di Gaspero** and Gianluca Franco. Apogeo, Milano. ISBN 88-503-2144-9 (original title *Thinking in Java (3rd ed.)*, Pearson Education, Upper Saddle River, USA).

2002   M. Page-Jones. *Fondamenti di progettazione orientata agli oggetti in UML* (384pp.) Italian translation edited by **Luca Di Gaspero** and Stefano Mizzaro. Apogeo, Milano. ISBN 88-7303-803-4 (original title *Fundamentals of Object-Oriented Design In UML*, Addison Wesley, New York, USA).

2001   H.M. Deitel, P.J. Deitel. *C++ Tecniche avanzate di programmazione* (388pp.) Italian translation edited by **Luca Di Gaspero**. Apogeo, Milano. ISBN 88-7303-670-8. (original title *C++ How to Program, 3/e*, Prentice Hall Inc., Upper Saddle River, New Jersey, USA).

2000   H.M. Deitel, P.J. Deitel. *C++ Fondamenti di programmazione* (670pp.) Italian translation edited by **Luca Di Gaspero**. Apogeo, Milano. ISBN 88-7303-731-3 (original title *C++ How to Program, 3/e*, Prentice Hall Inc., Upper Saddle River, New Jersey, USA).

IT & Programming skills

Programming languages (C, C++, Java, Pascal, Prolog)
Markup languages and markup related technologies (XHTML, CSS, XML, XSD, XSLT, XPath)
Scripting languages (PHP, Ruby, Python, shell script, JavaScript)
DB Query languages (SQL)
Statistical analysis (R)
IP and CP modeling (ILOG Concert, Gecode)
Revision control (Git, Subversion)
Digital typesetting (TEX, LATEX)
Server administration (Apache)

Languages

- *Italian*: Native Speaker
- *English*: Advanced C1
- *German*: Elementary A2
- *Dutch*: Beginner A1

Bibliometric indexes

Source	Papers	Citations	C/Year	C/Paper	h-index	h_c-index	h_A-index
Google Scholar Profile	127	3490	145.4	27.5	30	20	9
Scopus	79	1606	66.9	20.3	21	15	6

Source	h_I-annual	g-index	e-index	h_m-index	AWCR	AWCRpA	AW-index
Google Scholar Profile	0.8	57	44.0	15.7	298.5	95.3	17.3
Scopus	0.9	38	28.8	21.0	146.8	146.8	12.1

Updated April 19, 2023

The previous indexes have been computed by means of the *Publish or Perish* software on April 22, 2021, using a Google Profile indexed evaluation.

Publications

The publications are presented in reversed chronological order and are grouped by publication type. All publications, except [IP64, IP44] have been peer-reviewed.

International Journal Papers

[IJ1] Ruggero Bellio, Sara Ceschia, Luca Di Gaspero, and Andrea Schaerf. "Two-stage multi-neighborhood simulated annealing for uncapacitated examination timetabling." In: *Computers & Operations Research* 132 (2021), p. 105300. ISSN: 0305-0548. DOI: `https://doi.org/10.1016/j.cor.2021.105300`. IF: 5.159. IF5Y: 5.211.

[IJ2] Sara Ceschia, Luca Di Gaspero, Roberto Maria Rosati, and Andrea Schaerf. "Multi-Neighborhood Simulated Annealing for the Minimum Interference Frequency Assignment Problem." In: *EURO Journal on Computational Optimization* (2021), pp. 1–32. ISSN: 2192-4406. DOI: `https://doi.org/10.1016/j.ejco.2021.100024`.

[IJ3] Davide Armellini, Paolo Borzone, Sara Ceschia, Luca Di Gaspero, and Andrea Schaerf. "Modeling and solving the steelmaking and casting scheduling problem." In: *International Transactions in Operational Research* 27 (2020), pp. 57–90. DOI: `10.1111/itor.12595`. Scopus citations: 5. Scholar citations: 6. IF: 3.61. IF5Y: 3.749.

[IJ4] Sara Ceschia, Luca Di Gaspero, and Antonella Meneghetti. "Extending and Solving the Refrigerated Routing Problem." In: *Energies* 13(23).6214 (2020). DOI: `10.3390/en13236214`. IF: 3.252. IF5Y: 3.333.

[IJ5] Luca Grassetti, Ruggero Bellio, Luca Di Gaspero, Giovanni Fonseca, and Paolo Vidoni. "An extended regularized adjusted plus-minus analysis for lineup management in basketball using play-by-play data." In: *IMA Journal of Management Mathematics* (Oct. 2020). dpaa022. ISSN: 1471-678X. DOI: `10.1093/imaman/dpaa022`. eprint: `https://academic.oup.com/imaman/advance-article-pdf/doi/10.1093/imaman/dpaa022/33892599/dpaa022.pdf`. IF: 2.095. IF5Y: 1.835.

[IJ6] Michele Battistutta, Sara Ceschia, Fabio De Cesco, Luca Di Gaspero, and Andrea Schaerf. "Modeling and Solving the Thesis Defense Timetabling Problem." In: *Journal of the Operational Research Society* 70.7 (2019). DOI: `10.1080/01605682.2018.1495870`. Scopus citations: 4. Scholar citations: 3. IF: 3.051. IF5Y: 3.278.

[IJ7] Sara Ceschia, Luca Di Gaspero, and Andrea Schaerf. "Solving Discrete Lot-Sizing and Scheduling by Simulated Annealing and Mixed Integer Programming." In: *Computers & Industrial Engineering* 114 (2017), pp. 235–243. ISSN: 0360-8352. DOI: `10.1016/j.cie.2017.10.017`. Scopus citations: 11. Scholar citations: 14. IF: 7.18. IF5Y: 6.876.

[IJ8] Ruggero Bellio, Sara Ceschia, Luca Di Gaspero, Andrea Schaerf, and Tommaso Urli. "Feature-based tuning of simulated annealing applied to the curriculum-based course timetabling problem." In: *Computers & Operations Research* 65 (2016), pp. 83–92. ISSN: 0305-0548. DOI: `10.1016/j.cor.2015.07.002`. Scopus citations: 40. Scholar citations: 77. IF: 5.159. IF5Y: 5.211.

[IJ9] Luca Di Gaspero, Andrea Rendl, and Tommaso Urli. "Balancing Bike Sharing Systems with Constraint Programming." In: *Constraints* 21.2 (2016), pp. 318–348. ISSN: 1383-7133. DOI: `10.1007/s10601-015-9182-1`. Scopus citations: 42. Scholar citations: 68. IF: 0.583. IF5Y: 1.591.

[IJ10] Gerhard Post, Luca Di Gaspero, Jeffrey H. Kingston, Barry McCollum, and Andrea Schaerf. "The Third International Timetabling Competition." In: *Annals of Operations Research* 239.1 (2016), pp. 69–75. ISSN: 0254-5330. DOI: `10.1007/s10479-013-1340-5`. Scopus citations: 23. Scholar citations: 86. IF: 4.82. IF5Y: 4.46.

[IJ11]   Marco Sortino, Sandro Belfio, Giovanni Totis, Luca Di Gaspero, and Marco Nali. "An Investigation on Swarm Intelligence Methods for the Optimization of Complex Part Programs in CNC Turning." In: *International Journal of Advanced Manufacturing Technology* 80.1–4 (2015), pp. 657–672. ISSN: 0268-3768. DOI: 10.1007/s00170-015-7011-8. Scopus citations: 4. Scholar citations: 4. IF: 3.563. IF5Y: 3.471.

[IJ12]   Sara Ceschia, Luca Di Gaspero, and Andrea Schaerf. "The generalized balanced academic curriculum problem with heterogeneous classes." In: *Annals of Operations Research* 218.1 (2014), pp. 147–163. ISSN: 0254-5330. DOI: 10.1007/s10479-013-1358-8. Scopus citations: 1. Scholar citations: 1. IF: 4.82. IF5Y: 4.46.

[IJ13]   Ruggero Bellio, Luca Di Gaspero, and Andrea Schaerf. "Design and Statistical Analysis of a Hybrid Local Search Algorithm for Course Timetabling." In: *Journal of Scheduling* 15.1 (2012), pp. 49–61. DOI: 10.1007/s10951-011-0224-2. Scopus citations: 26. Scholar citations: 41. IF: 2.13. IF5Y: 2.269.

[IJ14]   Alex Bonutti, Fabio De Cesco, Luca Di Gaspero, and Andrea Schaerf. "Benchmarking Curriculum-Based Course Timetabling: Formulations, Data Formats, Instances, Validation, and Results." In: *Annals of Operations Research* 194.1 (2012), pp. 59–70. ISSN: 0254-5330. DOI: 10.1007/s10479-010-0707-0. Scopus citations: 54. Scholar citations: 128. IF: 4.82. IF5Y: 4.46.

[IJ15]   Marco Chiarandini, Luca Di Gaspero, Stefano Gualandi, and Andrea Schaerf. "The Balanced Academic Curriculum Problem Revisited." In: *Journal of Heuristics* 18.1 (2012), pp. 119–148. ISSN: 1381-1231. DOI: 10.1007/s10732-011-9158-2. Scopus citations: 21. Scholar citations: 41. IF: 2.247. IF5Y: 2.263.

[IJ16]   Sara Ceschia, Luca Di Gaspero, and Andrea Schaerf. "Design, Engineering, and Experimental Analysis of a Simulated Annealing Approach to the Post-Enrolment Course Timetabling Problem." In: *Computers & Operations Research* 39.7 (2011), pp. 1615–1624. ISSN: 0305-0548. DOI: 10.1016/j.cor.2011.09.014. Scopus citations: 50. Scholar citations: 89. IF: 5.159. IF5Y: 5.211.

[IJ17]   Sara Ceschia, Luca Di Gaspero, and Andrea Schaerf. "Tabu Search Techniques for the Heterogeneous Vehicle Routing Problem with Time Windows and Carrier-Dependent Costs." In: *Journal of Scheduling* 14.6 (2011), pp. 601–615. ISSN: 1094-6136. DOI: 10.1007/s10951-010-0213-x. Scopus citations: 31. Scholar citations: 58. IF: 2.13. IF5Y: 2.269.

[IJ18]   Luca Di Gaspero, Giacomo Di Tollo, Andrea Roli, and Andrea Schaerf. "Hybrid Metaheuristics for Constrained Portfolio Selection Problem." In: *Quantitative Finance* 11.10 (2011), pp. 1473–1488. ISSN: 1469-7688. DOI: 10.1080/14697680903460168. Scopus citations: 37. Scholar citations: 57. IF: 1.986. IF5Y: 2.22.

[IJ19]   Paolo Coppola, Vincenzo Della Mea, Luca Di Gaspero, Davide Menegon, Danny Mischis, Stefano Mizzaro, Ivan Scagnetto, and Luca Vassena. "The Context-Aware Browser." In: *IEEE Intelligent Systems* 25.1 (2010), pp. 38–47. ISSN: 1541-1672. DOI: 10.1109/MIS.2010.26. Scopus citations: 40. Scholar citations: 73. IF: 6.744. IF5Y: 6.617.

[IJ20]   Barry McCollum, Andrea Schaerf, Ben Paechter, Paul McMullan, Rhyd Lewis, Andrew J. Parkes, Luca Di Gaspero, Rong Qu, and Edmund K. Burke. "Setting the Research Agenda in Automated Timetabling: The Second International Timetabling Competition." In: *INFORMS Journal on Computing* 22.1 (2010), pp. 120–130. ISSN: 1526-5528. DOI: 10.1287/ijoc.1090.0320. Scopus citations: 161. Scholar citations: 257. IF: 3.288. IF5Y: 3.332.

[IJ21]   Luca Di Gaspero and Andrea Roli. "Stochastic local search for large-scale instances of the Haplotype Inference Problem by Parsimony." In: *Journal of Algorithms in Logic, Informatics and Cognition* 63.1–3 (2008), pp. 55–69. ISSN: 0196-6774. DOI: 10.1016/j.jalgor.2008.02.004. Scopus citations: 17. Scholar citations: 24. IF: 0.943. IF5Y: 1.355.

[IJ22]   Luca Di Gaspero, Johannes Gärtner, Guy Kortsarz, Nysret Musliu, Andrea Schaerf, and Wolfgang Slany. "The minimum shift design problem." In: *Annals of Operations Research* 155 (2007), pp. 79–105. ISSN: 0254-5330. DOI: 10.1007/s10479-007-0221-1. Scopus citations: 46. Scholar citations: 56. IF: 4.82. IF5Y: 4.46.

[IJ23]   Luca Di Gaspero and Andrea Schaerf. "A Composite-Neighborhood Tabu Search Approach to the Traveling Tournament Problem." In: *Journal of Heuristics* 13.2 (Apr. 2007), pp. 189–207. ISSN: 1381-1231. DOI: 10.1007/s10732-006-9007-x. Scopus citations: 56. Scholar citations: 98. IF: 2.247. IF5Y: 2.263.

[IJ24]   Vincenzo Della Mea, Gianluca Demartini, Luca Di Gaspero, and Stefano Mizzaro. "Measuring Retrieval Effectiveness with Average Distance Measure (ADM)." In: *Informa-tion Wissenschaft und Praxis* 57.8 (2006), pp. 405–416. ISSN: 1434-4653. Scopus citations: 3. Scholar citations: 6.

[IJ25]   Luca Di Gaspero and Andrea Schaerf. "Neighborhood Portfolio Approach for Local Search applied to Timetabling Problems." In: *Journal of Mathematical Modeling and Algorithms* 5.1 (2006), pp. 65–89. ISSN: 1570-1166. DOI: 10.1007/s10852-005-9032-z. Scopus citations: 70. Scholar citations: 105.

[IJ26]   Luca Di Gaspero and Andrea Schaerf. "Il problema della generazione automatica dell'orario delle lezioni: teoria e pratica." In: *Intelligenza Artificiale* 1.3 (2004). In Italian, pp. 47–54. ISSN: 1724-8035.

[IJ27]   Luca Di Gaspero and Andrea Schaerf. "EasyLocal++: An object-oriented framework for flexible design of local search algorithms." In: *Software — Practice & Experience* 33.8 (July 2003), pp. 733–765. ISSN: 0038-0644. DOI: 10.1002/spe.524. Scopus citations: 86. Scholar citations: 176.

[IJ28]   Vincenzo Della Mea, Vito Roberto, Antonello Conti, and Luca Di Gaspero. "Internet Agents for telemedicine services." In: *Medical Informatics and the Internet in Medicine* 24.3 (1999), pp. 181–188. DOI: 10.1080/146392399298384. Scopus citations: 17. Scholar citations: 27. IF: 1.036. IF5Y: 1.16.

Books

[B1]   Vincenzo Della Mea, Luca Di Gaspero, and Ivan Scagnetto. *Programmazione Web Lato Server: Principi, Tecniche di base, Esercitazioni*. Second. Apogeo, 2010. ISBN: 978-88-503-2926-7.

[B2]   Vincenzo Della Mea, Luca Di Gaspero, and Ivan Scagnetto. *Programmazione Web Lato Server: Principi, Tecniche di base, Esercitazioni*. Apogeo, 2007. ISBN: 978-88-503-2610-5. Scholar citations: 3.

Edited books or collections

[EB1] Luca Di Gaspero, Andrea Schaerf, and Thomas Stützle, eds. ***Advances in Metaheuristics***. OR/CS. New York, USA: Springer Science+Business Media, 2013. ISBN: 978-1-4614-6321-4. Scholar citations: 5.

[EB2] Luca Di Gaspero, Andrea Schaerf, and Thomas Stützle, eds. ***Proceedings of the 9th Metaheuristics International Conference (MIC 2011)***. Electronic proceedings. Udine, Italy: Dipartimento di Ingegneria Elettrica, Gestionale e Meccanica - Università degli Studi di Udine, July 2011. ISBN: 978-88-900984-3-7.

[EB3] Maria J. Blesa Aguilera, Christian Blum, Luca Di Gaspero, Andrea Roli, Michael Sampels, and Andrea Schaerf, eds. ***Hybrid Metaheuristics 6th International Workshop, HM 2009 Udine, Italy, October 16-17, 2009 Proceedings***. Vol. 5818. Lecture Notes in Computer Science. Berlin-Heidelberg, Germany: Springer-Verlag, 2009, p. 179. ISBN: 978-3-642-04917-0. Scholar citations: 17.

Papers in International Books and Collections (including published conference proceedings)

[IP1] Francesca Da Ros, Luca Di Gaspero, David La Barbera, Vincenzo Della Mea, Kevin Roitero, Laura Deroma, Sabrina Licata, and Francesca Valent. "A Multi-objective BRKGA for the Siting of Emergency Vehicles." In: ***Proceedings of the 14th Metaheuristics International Conference (MIC 2022)***. Ed. by Luca Di Gaspero, Paola Festa, Mario Pavone, and Amir Nakib. Lecture Notes in Computer Science. Springer Verlag, 2022. IF: 0.402.

[IP2] Francesca Da Ros, David La Barbera, Laura Deroma, Luca Di Gaspero, Sabrina Licata, and Francesca Valent. "Analisi di dati e algoritmi di ottimizzazione per la locazione delle stazioni delle ambulanze: un caso studio." In: ***Abstract del XLVI Convegno Associazione Italiana di Epidemiologia***. 2022, p. 16.

[IP3] Michele Battistutta, Sara Ceschia, Fabio De Cesco, Luca Di Gaspero, Andrea Schaerf, and Elena Topan. "Local Search and Constraint Programming for a Real-World Examination Timetabling Problem." In: *17th International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research*. Ed. by Emmanuel Hebrard and Nysret Musliu. Springer International Publishing, 2020, pp. 69–81. ISBN: 978-3-030-58942-4. DOI: 10.1007/978-3-030-58942-4_5. Scholar citations: 1.

[IP4] Davide Armellini, Paolo Borzone, Sara Ceschia, Luca Di Gaspero, and Andrea Schaerf. "A Metaheuristic Approach for Scheduling Steelmaking and Casting Plants." In: ***Proceedings of the 12th Metaheuristics International Conference (MIC-2017)***. Barcelona, Spain, 2017, pp. 462–464. Scholar citations: 1.

[IP5] Davide Armellini, Paolo Borzone, Sara Ceschia, Luca Di Gaspero, and Andrea Schaerf. "Modeling and Solving the Steelmaking and Casting Planning and Scheduling Problem." In: ***Proceedings of the 8th Multidisciplinary International Conference on Scheduling: Theory and Applications (MISTA-2017)***. Kuala Lumpur, Malaysia, 2017, pp. 380–384.

[IP6]   Sara Ceschia, Luca Di Gaspero, and Andrea Schaerf. "Simulated Annealing for Discrete Lot-Sizing and Scheduling." In: *Proceedings of the 46th Annual Conference of the Italian Operations Research Society*. Trieste, Italy, 2016, pp. 45–46.

[IP7]   Sara Ceschia, Luca Di Gaspero, Andrea Schaerf, and Tommaso Urli. "A General Local Search Solver for FlatZinc." In: *Proceedings of the 11th Metaheuristics International Conference (MIC 2015)*. Agadir, Morocco, June 2015, pp. 1–3.

[IP8]   Luca Di Gaspero. "Integration of Metaheuristics and Constraint Programming." In: *Springer Handbook of Computational Intelligence - Part E*. Ed. by Frank Neumann, Carsten Witt, Peter Merz, and Günther Raidl. Berlin-Heidelberg, Germany: Springer-Verlag, 2015. Chap. 62, pp. 1227–1239. DOI: 10.1007/978-3-662-43505-2_62. Scopus citations: 4. Scholar citations: 6.

[IP9]   Luca Di Gaspero. "Practical Solution of Rich Routing Problems with CP and Metaheuristics." In: *Proceedings of the 22nd International Symposium on Mathematical Programming*. Extended abstract of the talk. Pittsburg, USA, July 2015.

[IP10] Luca Di Gaspero and Tommaso Urli. "A CP/LNS Approach for Multi-day Homecare Scheduling Problems." In: *Hybrid Metaheuristics 9th International Workshop, HM 2014, Hamburg, Germany, June 11-13, 2014, Proceedings*. Ed. by Maria J. Blesa, Christian Blum, and Stefan Voß. Vol. 8457. Lecture Notes in Computer Science. Berlin-Heidelberg, Germany: Springer-Verlag, 2014, pp. 1–15. DOI: 10.1007/978-3-319-07644-7_1. Scopus citations: 8. Scholar citations: 14. IF: 0.402.

[IP11] Ruggero Bellio, Sara Ceschia, Luca Di Gaspero, Andrea Schaerf, and Tommaso Urli. "A simulated annealing approach to the curriculum-based course timetabling problem." In: *6th Multidisciplinary International Conference on Scheduling: Theory and Applications*. Ghent, Belgium, Aug. 2013, pp. 314–317. Scholar citations: 11.

[IP12] Raffaele Cipriano, Luca Di Gaspero, and Agostino Dovier. "A Multi-paradigm Tool for Large Neighborhood Search." In: *Hybrid Metaheuristics*. Ed. by El-Ghazali Talbi. Vol. 434. Studies in Computational Intelligence. Springer Verlag, 2013, pp. 389–414. DOI: 10.1007/978-3-642-30671-6_15. Scopus citations: 3. Scholar citations: 1.

[IP13] Luca Di Gaspero, Johannes Gärtner, Nysret Musliu, Andrea Schaerf, Werner Schafhauser, and Wolfgang Slany. "Automated Shift Design and Break Scheduling." In: *Automated Scheduling and Planning - From Theory to Practice*. Ed. by A. Şima Etaner-Uyar, Ender Özcan, and Neil Urquhart. Vol. 505. Studies in Computational Intelligence. Springer-Verlag, 2013, pp. 109–127. ISBN: 978-3-642-39303-7. DOI: 10.1007/978-3-642-39304-4_5. Scopus citations: 10. Scholar citations: 14.

[IP14] Luca Di Gaspero, Andrea Rendl, and Tommaso Urli. "A Hybrid ACO+CP for Balancing Bicycle Sharing Systems." In: *Hybrid Metaheuristics 8th International Workshop, HM 2013 Ischia, Italy, May 23-25, 2013 Proceedings*. Ed. by Maria J. Blesa Aguilera, Christian Blum, Paola Festa, Andrea Roli, and Michael Sampels. Vol. 7919. Lecture Notes in Computer Science. Berlin-Heidelberg, Germany: Springer-Verlag, 2013, pp. 198–212. ISBN: 978-3-642-38515-5. DOI: 10.1007/978-3-642-38516-2_16. Scopus citations: 55. Scholar citations: 77. IF: 0.402.

[IP15] Luca Di Gaspero, Andrea Rendl, and Tommaso Urli. "Constraint-Based Approaches for Balancing Bike Sharing Systems." In: *Principles and Practice of Constraint Programming - 19th International Conference, CP 2013, Uppsala, Sweden, September 16-20, 2013. Proceedings*. Ed. by Christian Schulte. Vol. 8124. Lecture Notes in Computer Science. Berlin-Heidelberg, Germany: Springer-Verlag, 2013, pp. 758–773. ISBN: 978-3-

642-40626-3. DOI: 10.1007/978-3-642-40627-0_56. Scopus citations: 35. Scholar citations: 53. IF: 0.402.

[IP16] Luca Di Gaspero and Tommaso Urli. "Evaluation of a family of reinforcement learning cross-domain optimization heuristics." In: *Proceedings of Learning and Intelligent OptimizatioN Conference 2012 (LION6)*. Electronic proceedings. Paris, France, Jan. 2012. DOI: 10.1007/978-3-642-34413-8_32. Scopus citations: 14. Scholar citations: 22.

[IP17] Luca Di Gaspero, Giacomo Di Tollo, Andrea Roli, and Andrea Schaerf. "Local Search for Constrained Financial Portfolio Selection Problems with Short Sellings." In: *Learning and Intelligent Optimization. LION 2011. 5th International Conference, LION 5, Rome, Italy, January 17-21, 2011. Selected Papers*. Ed. by Carlos A. Coello Coello. Vol. 6683. Lecture Notes in Computer Science. Berlin-Heidelberg, Germany: Springer Verlag, 2011, pp. 450–453. ISBN: 978-3-642-25565-6. DOI: 10.1007/978-3-642-25566-3_34. Scopus citations: 4. Scholar citations: 6. IF: 0.402.

[IP18] Luca Di Gaspero and Tommaso Urli. "A Reinforcement Learning approach for the Cross-Domain Heuristic Search Challenge." In: *Proceedings of the 9th Metaheuristics International Conference (MIC 2011)*. Udine, Italy, July 2011. ISBN: 978-88-900984-3-7. Scholar citations: 7.

[IP19] Luca Di Gaspero, Johannes Gärtner, Nysret Musliu, Andrea Schaerf, Werner Schafhauser, and Wolfgang Slany. "A Hybrid LS-CP Solver for the Shifts and Breaks Design Problem." In: *Hybrid Metaheuristics 7th International Workshop, HM 2010 Vienna, Austria, October 1-2, 2010 Proceedings*. Ed. by Maria J. Blesa Aguilera, Christian Blum, Günther Raidl, Andrea Roli, and Michael Sampels. Vol. 6373. Lecture Notes in Computer Science. Springer-Verlag, 2010, pp. 46–61. ISBN: 978-3-642-16053-0. DOI: 10.1007/978-3-642-16054-7_4. Scopus citations: 12. Scholar citations: 23. IF: 0.402.

[IP20] Luca Di Gaspero, Johannes Gärtner, Nysret Musliu, Andrea Schaerf, Werner Schafhauser, and Wolfgang Slany. "A Hybrid LS-CP Solver for the Shifts and Breaks Design Problem." In: *Proceedings of the 8th International Conference on Practice and Theory of Automated Timetabling (PATAT 2010)*. Ed. by Barry McCollum. Belfast, United Kingdom, Aug. 2010.

[IP21] Stefano Benedettini, Andrea Roli, and Luca Di Gaspero. "EasyGenetic: A Template Metaprogramming Framework for Genetic Master-Slave Algorithms." In: *Engineering Stochastic Local Search Algorithms. Designing, Implementing and Analyzing Effective Heuristics, Second International Workshop, SLS 2009, Brussels, Belgium, September 3-4, 2009. Proceedings*. Ed. by Thomas Stützle, Mauro Birattari, and Holger H. Hoos. Vol. 5752. Lecture Notes in Computer Science. Berlin-Heidelberg, Germany: Springer-Verlag, 2009, pp. 135–139. ISBN: 978-3-642-03750-4. DOI: 10.1007/978-3-642-03751-1_14. Scholar citations: 1. IF: 0.402.

[IP22] Raffaele Cipriano, Luca Di Gaspero, and Agostino Dovier. "A Hybrid Solver for Large Neighborhood Search: Mixing Gecode and EasyLocal++." In: *Hybrid Metaheuristics 6th International Workshop, HM 2009 Udine, Italy, October 16-17, 2009 Proceedings*. Ed. by Maria J. Blesa Aguilera, Christian Blum, Luca Di Gaspero, Michael Sampels, and Andrea Schaerf. Lecture Notes in Computer Science 5818. Berlin-Heidelberg, Germany: Springer-Verlag, 2009, pp. 141–155. DOI: 10.1007/978-3-642-04918-7_11. Scopus citations: 8. Scholar citations: 11. IF: 0.402.

[IP23]   Luca Di Gaspero and Andrea Roli. "Flexible stochastic local search for Haplotype Inference." In: *Learning and Intelligent Optimization - Third International Conference, LION 2009*. Ed. by Bart Selman, Roberto Battiti, and Thomas Stützle. Vol. 5851. Lecture Notes in Computer Science. Berlin-Heidelberg, Germany: Springer-Verlag, 2009, pp. 74–88. DOI: 10.1007/978-3-642-11169-3_6. Scholar citations: 1. IF: 0.402.

[IP24]   Stefano Mizzaro, Paolo Coppola, Vincenzo Della Mea, Luca Di Gaspero, Danny Mischis, Elena Nazzi, Ivan Scagnetto, and Luca Vassena. "Context Aware Browser." In: ***Interactive Information Retrieval***. Ed. by Nicholas J. Belkin, Norbert Fuhr, Joemon Jose, and C. J. Keith van Rijsbergen. Dagstuhl Seminar Proceedings 09101. Dagstuhl, Germany: Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, Germany, 2009. Scholar citations: 3.

[IP25]   Ruggero Bellio, Luca Di Gaspero, and Andrea Schaerf. "A Statistical Analysis of the Features of a Dynamic Tabu Search Algorithm For Course Timetabling Problems." In: ***Proceedings of the 7th International Conference on the Practice and Theory of Automated Timetabling (PATAT-2008)***. Ed. by Michel Gendreau and Edmund K. Burke. Available as electronic proceedings. 2008, pp. 1–3. Scopus citations: 1. Scholar citations: 1.

[IP26]   Stefano Benedettini, Luca Di Gaspero, and Andrea Roli. "Towards a highly scalable hybrid metaheuristic for haplotype inference under parsimony." In: ***Proceedings of the 8th International Conference on Hybrid Intelligent Systems***. Barcelona, Spain: IEEE Computer Society Press, Las Alamitos (CA), USA, Sept. 2008, pp. 702–707. ISBN: 978-0-7695-3326-1. DOI: 10.1109/HIS.2008.102. Scopus citations: 1. Scholar citations: 3.

[IP27]   Stefano Benedettini, Andrea Roli, and Luca Di Gaspero. "Two-level ACO for Haplotype Inference under pure parsimony." In: *Ant Colony Optimization and Swarm Intelligence, 6th International Conference, ANTS 2008*. Ed. by Marco Dorigo, Mauro Birattari, Christian Blum, Maurice Clerc, Thomas Stützle, and Alan Winfield. Lecture Notes in Computer Science 5217. Springer Verlag, 2008, pp. 179–190. ISBN: 978-3-540-87526-0. DOI: 10.1007/978-3-540-87527-7_16. Scopus citations: 8. Scholar citations: 14. IF: 0.402.

[IP28]   Adolfo Bulfoni, Paolo Coppola, Vincenzo Della Mea, Luca Di Gaspero, Danny Mischis, Stefano Mizzaro, Ivan Scagnetto, and Luca Vassena. "AI on the Move: Exploiting AI Techniques for Context Inference on Mobile Devices." In: ***Proceedings of the 18th European Conference on Artificial Intelligence (ECAI 2008)***. 5th International Conference on the Prestigious Applications of Intelligent Systems PAIS 2008. Patras, Greece: IOS Press, Amsterdam, The Netherlands, July 2008, pp. 668–672. DOI: 10.3233/978-1-58603-891-5-668. Scopus citations: 6. Scholar citations: 9.

[IP29]   Paolo Burelli, Luca Di Gaspero, Andrea Ermetici, and Roberto Ranon. "Virtual Camera Composition with Particle Swarm Optimization." In: *Smart Graphics, 9th International Symposium, SG 2008, Rennes, France, August 27-29, 2008. Proceedings*. Ed. by Andreas Butz, Brian D. Fisher, Antonio Krüger, Patrick Olivier, and Marc Christie. Vol. 5166. Lecture Notes in Computer Science. Berlin-Heidelberg, Germany: Springer Verlag, 2008, pp. 130–141. ISBN: 978-3-540-85410-4. DOI: 10.1007/978-3-540-85412-8_12. Scopus citations: 22. Scholar citations: 38. IF: 0.402.

[IP30] Fabio De Cesco, Luca Di Gaspero, and Andrea Schaerf. "Benchmarking Curriculum-Based Course Timetabling: Formulations, Data Formats, Instances, Validation, and Results." In: ***Proceedings of the 7th International Conference on the Practice and Theory of Automated Timetabling (PATAT-2008)***. Ed. by Michel Gendreau and Edmund K. Burke. Available as electronic proceedings. 2008, pp. 1–11. Scopus citations: 25.

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