

CURRICULUM VITÆ
GIOVANNI SQUILLERO

Personal details

Name: Giovanni
Surname: Squillero
Age: wrong side of fifty



Contact information

Politecnico di Torino — DAUIN
Corso Duca degli Abruzzi 24
10129 Torino
ITALY

Phone: +39-011090.7186

Fax: +39-011090.7099

Email: giovanni.squillero@polito.it

Homepage: <https://staff.polito.it/giovanni.squillero/>

Private email: squillero@proton.me

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Biosketch (310 words)

Giovanni Squillero works as an associate professor of computer science at Politecnico di Torino, Department of Control and Computer Engineering. After attending a *liceo classico* (humanities), he enrolled in an electronic engineering program, but eventually got both his M.S. and Ph.D. in computer engineering. His research mixes artificial intelligence and soft computing, with particular emphasis on evolutionary computation, bio-inspired meta-heuristics, and multi-agent systems; in more down-to-earth activities, he develops approximate optimization techniques able to achieve acceptable solutions with reasonable amount of resources. The industrial applications of his work range from electronic CAD to bioinformatics. Up to March 2023, he is credited as an author in 3 books, 35 journal articles, 11 book chapters, and 163 papers in conference proceedings; he is also listed among the editors in 14 volumes. He has been given the opportunity to present his research in 15 international events among invited talks, seminars and tutorials. As an entrepreneur, he co-founded *Ominee*, S.r.l. in 2014, and *Bactell*, Inc. in 2019.

Squillero has been a Senior Member of the *IEEE* since 2014; currently, he is serving in the technical committee of the *IEEE Computational Intelligence Society Games*, and in the editorial board of *Genetic Programming and Evolvable Machines*. He was the program chair of the *European Conference on the Applications of Evolutionary Computation* in 2016 and 2017, and he is now a member of the *EvoApplications* steering committee. In 2018 he co-organized *EvoML*, the workshop on *Evolutionary Machine Learning* at PPSN; in 2016 and 2017, *MPDEA*, the workshop on *Measuring and Promoting Diversity in Evolutionary Algorithms* at GECCO; and from 2004 to 2014, *EvoHOT*, the *Workshops on Evolutionary Hardware Optimization Techniques*.

Since 1998, Squillero has lectured 71 university courses (16 Ph.D. and 55 M.S./B.Sc.; 36 in Italian and 35 in English); he contributed to additional 37 courses as an assistant or in other subsidiary roles.

Main research topics

Squillero's research is more easily defined by the methodologies he used than by the problems he tackled. In the 1990s he started working with *genetic algorithms*, and in subsequent years the research broadened to evolutionary algorithms in general and up to the whole spectrum of bio-inspired metaheuristics and soft-computing; approaches classifiable as *artificial intelligence* have been exploited since the 2000s; classifiable as *machine learning*, since the 2010s. Topics related to *approximate optimization*, such as, parallelization, ad-hoc heuristics, surrogate models, and problem-specific simplifications, have also been studied since late 1990s.

In more details, among the currently active research lines it might be worth mentioning:

- **Bioinformatics:** The study of computational intelligence techniques to forecast antibiotic resistance from microbial whole genome sequencing started in 2019; to determine the presence of COVID infections from breath analysis by mass spectrometry, in 2021.
- **Estimation of distribution algorithms:** The research started in 1998 by developing the SG (Selfish Gene), an evolutionary algorithm based on a controversial interpretation of natural selection, soon after it focused on solving deceptive problems with EDAs.
- **Games and intelligent behaviors:** The line started in 2006 tackling the “Core War” game. Since the 2010s, the research includes the modeling of players, either to predict the opponent's moves during a game, or to recreate the *personality* of a human.

While among the discontinued ones, one could remember:

- **Promotion of diversity in artificial environments:** The research started in the 2010s and aims at evaluating, understanding, and possibly mitigating the endemic lack of diversity in evolutionary computation.
- **Security and Malware:** The research started in mid 2010s, and aims at building scalable, fully-automatic or semi-supervised tools able to handle massive datasets of malware applications.
- **Automatic generation of full-fledged assembly programs:** The research started around 2000 with the goal to create test programs for microprocessors and microcontrollers, and the activity got a (partial) support from Intel under the grant: “GP Based Test Program generation”. It eventually led to the development of a general-purpose toolkit named μ GP (MicroGP), freely available through Sourceforge at <http://ugp3.sf.net/> and under active development.
- **Routing and security in wireless sensors’ networks:** The research started in the 2010s and was backed by WSN experts. It aims at exploiting evolutionary algorithms for quite unusual goals.
- **Drift corrections in electronic noses:** The research started in the 2010s and was backed by experts in both electronic sensing and in classifier systems. It aimed at developing an adaptive system able to mitigate the effects of drift and other irreversible phenomena.
- **Generation of input stimuli for testing, and validation:** In the 1990s the research focused on gate-level digital circuits, then, it moved to higher levels of abstractions (register-transfer, behavioral). Since the 2010s, the physical devices were used directly without simulation. The line of research also tackles generic complex systems, like software applications on cellular phones.
- **Web interfaces, distant learning, artificial intelligence for web applications:** The research, almost discontinued in the 1990s, aimed at helping users with special needs.

Appointments

Politecnico di Torino

- **Associate Professor** at the Department of Control and Computer Engineering
- **Board Member** for the *Specialising Master’s Programmes and Lifelong Learning School*
- **Board Member** for the *Ph.D. programme in Pure and Applied Mathematics*
- **Board Member** of the *Teaching and Language Laboratory*
- **Member** of the Interdepartmental Center SmartData@PoliTO
- **Member** of the *Open Access Commission*
- **Member** of the *Library Commission* of the Department of Control and Computer Engineering
- **Coordinator** of *Scacchi PoliTO* (Politecnico’s Chess Club)

Professional Bodies and Learned Societies

- **Senior Member** of the *IEEE*
- **Member** of the **Games Technical Committee (GTC)** of the *IEEE Computational Intelligence Society*

Editorships

- **Editorial Board Member** of *Genetic Programming and Evolvable Machines*

Scientific responsibility of research projects (competitive calls)

- *ART-IFICIAL INTELLIGENCE in Support of Museums* as **Head of the Department Unit** for DAUIN, grant from *Compagnia di San Paolo* (1 M€, 2020-2022)
- *SG - SMART GAMER*, grant from *Poli di Innovazione* (2013-2014)

Scientific responsibility of research projects (commercial contracts)

- “COLIBRI #2” with *SPEA S.p.A.* (2020-2022)
- “Extraction and identification of information from mass spectra” with *Nanotech Analysis S.r.l.* (2021-2022)
- “A3G speed monitor modelling” with *Infineon Technologies Italia S.r.l.* (2021)
- “Machine Learning techniques for virtual antimicrobial susceptibility testing” with *Bactell Inc.* (2019)
- “Machine Learning techniques for the prediction of failures based on in-situ sensors values” with *Infineon Technologies A.G.* (2018)
- “Algoritmo di ottimizzazione” with *Seica S.p.A.* (2017)
- “Ottimizzazione percorsi FP” with *SPEA S.p.A.* (2011)

Organizing Committees

- **Member** of the *EvoApplications Steering Committee* since **2018** (part of *EvoStar*).
- **Organizer** of the workshop on “Evolutionary Machine Learning” at the *International Conference on Parallel Problem Solving from Nature (PPSN)* in **2018** [with Alberto Tonda].
- **Organizer** of the workshop on “Measuring and Promoting Diversity in Evolutionary Algorithms” at the *Genetic and Evolutionary Computation Conference (GECCO)* in **2017** [with Alberto Tonda].
- **Program Chair** of the *European Conference on the Applications of Evolutionary Computation* (part of *EvoSTAR*) in **2017**
- **Organizer** of the workshop on “Measuring and Promoting Diversity in Evolutionary Algorithms” at the *Genetic and Evolutionary Computation Conference (GECCO)* in **2016** [with Alberto Tonda].
- **Program Chair** of the *Biannual European-Latin American Summer School on Design, Test and Reliability (BELAS)* in **2016**
- **Program Chair** of the *European Conference on the Applications of Evolutionary Computation* (part of *EvoSTAR*) in **2016**
- **Publication Chair** of the *European Conference on the Applications of Evolutionary Computation* (part of *EvoSTAR*) in **2015**
- **Organizer** of “EvoHOT” (formerly the “Workshop on Evolutionary Hardware Optimization Techniques”, then incorporated as a track in the *European Conference on the Applications of Evolutionary Computation*) from **2004** to **2014**
- **Track chair** of “A-LIFE” (evolutionary robotics, adaptive behavior, and evolvable hardware) at the *Genetic and Evolutionary Computation Conference (GECCO)* in **2011** and **2012**.
- **General Track Chair** of *European Conference on the Applications of Evolutionary Computation* in **2012**.
- **Chair of the Ph.D. forum** for the *20th International Conference on Field Programmable Logic and Applications (FPL)* in **2010**

- **Track chair** of “A-LIFE” (evolutionary robotics, adaptive behavior, and evolvable hardware) at the *Genetic and Evolutionary Computation Conference (GECCO)* in **2009**.
- **Organizer** of the “Special Session on Evolutionary Computation for Electronic Design Automation” at the *IEEE Congress on Evolutionary Computation (CEC)* in **2007**
- **Topic Chair** for the *IEEE Congress on Evolutionary Computation (CEC)* in **2005**
- **Vice-Chair** for *IEEE Congress on Evolutionary Computation (CEC)* in **2004**
- **Track organizer** “Evolutionary Computation and Optimization” for the *ACM Symposium on Applied Computing (SAC)* in **2004**
- **Organizer** of the “Special Session on Evolutionary Design Automation” at the *IEEE Congress on Evolutionary Computation (CEC)* in **2003**
- **Organizer** of the “Special Session on Design Automation” at the *IEEE Congress on Evolutionary Computation (CEC)* in **2001**

Dissemination

- **Tutorial** “Theory and Practice of Population Diversity in Evolutionary Computation” at the *ACM Genetic and Evolutionary Computation Conference (GECCO)* in **2022** [together with Dirk Sudholt]
- **Invited speech** “Artificial Intelligence in the museum environment” at *Humanizing Technology through Design* (event organized by *Circolo del Design*) in **2021**
- **Tutorial** “Evolutionary Algorithms & Machine Learning: Synergies and challenges” at the *ACM Genetic and Evolutionary Computation Conference (GECCO)* in **2020** [together with Alberto Tonda]
- **Tutorial** “Theory and Practice of Population Diversity in Evolutionary Computation” at the *ACM Genetic and Evolutionary Computation Conference (GECCO)* in **2020** [together with Dirk Sudholt]
- **Tutorial** “Promoting Diversity in Evolutionary Optimization: Why and How” at the *ACM Genetic and Evolutionary Computation Conference (GECCO)* in **2018** [together with Alberto Tonda]
- **Tutorial** “Promoting Diversity in Evolutionary Optimization: Why and How” at the *International Conference on Parallel Problem Solving from Nature (PPSN)* in **2016** [together with Alberto Tonda]
- **Tutorial** “Brief Overview of Diversity-Preservation Methodologies in Evolutionary Optimization” at the *IEEE World Congress of Computational Intelligence (WCCI)* in **2014** [together with Alberto Tonda]
- **Tutorial** “Industrial Applications of Evolutionary Algorithms” at the *ACM Genetic and Evolutionary Computation Conference (GECCO)* in **2013**
- **Tutorial** “Industrial Applications of Evolutionary Algorithms” at the *IEEE Conference on Evolutionary Computation (CEC)* in **2011**
- **Seminar** on “Heuristic Stimuli Generation For Coverage Closure Exploiting Simulation Feedback” at *DVClub* in **2010**
- **Tutorial** “EA-based Test and Verification of Microprocessors” at the *Genetic and Evolutionary Computation Conference (GECCO)* in **2008**
- **Invited speech** “Methodologies for Test Program Generation Exploiting Simulation Feedback” at the workshop *Pre- and post-SI verification challenges of multi-core systems* organized by Intel and Technion (Haifa) in **2008**
- **Seminars** on *Evolutionary Computation* in prof. Elio Piccolo “Artificial Intelligence” course in **2005, 2006** and **2008**
- **Seminars** on *Evolutionary Computation in Computer Aided Design* in Prof. Stefano Cagnoni’s course (University of Parma) in **2005** and **2004**

- **Tutorial** titled “Applications of evolutionary computation to hardware design” at the *Workshop AIXIA sul calcolo evoluzionistico* (GSICE) in **2005**

Awards

- **Best paper award** at *EvoSTAR* for “Use of a Multi-Objective Evolutionary Algorithm for Influence Maximization in Social Networks” in **2017**.
- **Bronze Medal** at *ICPC Southwestern Europe Regional Contest* (for coaching Georgy Skhirtladze, Vuk Stajkic, and Kareem Zarka) in **2017**.
- **Honorable mention award** at the *Human-Competitive Awards (The HUMMIES)* for “Artificial evolution in computer aided design: from the optimization of parameters to the creation of assembly programs Automatic Generation of Software-based Functional” in **2012**.
- **Best paper candidate** at *EvoSTAR* for “Exploiting Evolution for an Adaptive Drift-Robust Classifier in Chemical Sensing” in **2010**.
- **Best paper candidate** at *Genetic and Evolutionary Computation Conference* for “Coupling EA and High-level Metrics for the Automatic Generation of Test Blocks for Peripheral Cores” in **2007**.
- **Best paper award** at *IEEE DATE: Design, Automation and Test in Europe* for “An Effective Technique for Minimizing the Cost of Processor Software-Based Diagnosis in SoCs” in **2006**.
- **Silver medal** at *Human-Competitive Awards (The HUMMIES)* for *Evolving Assembly Programs: How Games Help Microprocessor Validation* in **2005**.
- **Outstanding Paper Award** at *Symposium on Integrated Circuits and System Design* for “Reducing Test Application Time through Interleaved Scan” in **2002**.
- **Best paper award** at *IEEE Asian Test Symposium* for “Effective Techniques for High-Level ATPG” in **2001**.
- **Special Jury Award for Outstanding Work presented by a student or young researcher** at the *First European Workshops* (organized by *EvoNet*) for “Approximate Equivalence Verification for Protocol Interface Implementation via Genetic Algorithms” in **1999**.

Other Achievements

- The algorithm *EvoCore* reaches the first place in the leaderboards of coresets discovery for 14 different datasets at <https://paperswithcode.com/task/core-set-discovery> in **2020**
- Winner of a 3,000 EUR grant for covering travel expense (“intervento a favore dei giovani ricercatori”) in **2007**.
- Winner of a 3,000 EUR grant for covering travel expense (“intervento a favore dei giovani ricercatori”) in **2006**
- The evolved corewar warrior *WhiteNoise* is the first program not written by a human to top the *SAL tiny hill*: in **2004**.
- The paper “A Genetic Algorithm for the Computation of Initialization Sequences for Synchronous Sequential Circuits” (**1997**) was selected for inclusion for the *10th Anniversary Compendium of Papers from Asian Test Symposium 1992-2001*

Peer Review Committees

Journal

- *Algorithms* (MDPI - Open Access Journal)

- *Applied Soft Computing* (Elsevier)
- *Biology* (MDPI - Open Access Journal)
- *Entertainment Computing* (Elsevier)
- *IEE Proceedings on Computers and Digital Techniques* (IET)
- *IEEE Design & Test of Computers* (IEEE)
- *IEEE Transactions on Computers* (IEEE)
- *IEEE Transactions on Evolutionary Computations* (IEEE)
- *Integration, the VLSI Journal* (Elsevier)
- *Journal of Electronic Testing: Theory and Applications* (Kluwer)
- *Journal of Genetic Programming and Evolvable Machines* (Springer)
- *Journal on Applied Signal Processing - EURASIP* (ACM)
- *Microprocessors and Microsystems* (Elsevier)

Conferences/Workshops

- *Computational Intelligence, Robotica and Autonomous Systems*
- *European Conference on Evolutionary Computation in Combinatorial Optimisation (EvoCOP)*
- *European Conference on the Applications of Evolutionary Computation (EvoAPPLICATIONS)*
- *European Workshop on Evolutionary Computation in Communications, Networks, and Connected Systems*
- *Genetic and Evolutionary Computation Conference*
- *IEEE Conference on Computational Intelligence and Games*
- *IEEE Conference on Cybernetics and Intelligent Systems*
- *IEEE Conference on Robotics, Automation and Mechatronics*
- *IEEE World Congress on Computational Intelligence (IEEE Congress on Evolutionary Computation)*
- *International Conference on Adaptive and Natural Computing Algorithms*
- *International Conference On Computational Science*
- *International Conference on Evolvable Systems: From Biology to Hardware*
- *Second International Conference on Computational Intelligence, Robotics and Autonomous System*
- *The European Workshop on Evolutionary Computation in Image Analysis and Signal Processing*

Language skills

- C — native
- *python* — fluent
- *bash scripting, C++, java, perl* — proficient
- *go* — novice
- *ARexx, Assembly (x86, IA64, m68k, SPARC), BASIC (Amiga, C64, VB, VBA), C*, Fortran, Lisp (Emacs Lisp), Pascal, Prolog* — almost completely forgotten

Working experience

- **2016 – now:** *Associate Professor*, Politecnico di Torino (Italy)

- **2011:** *Visiting Professor*, Tongji University, Shanghai (China)
- **2007:** *Visiting Professor*, Tongji University, Shanghai (China)
- **2005 – 2016:** *Assistant Professor*, Politecnico di Torino (Italy)
- **2003 – 2005:** *Researcher*, Politecnico di Torino (Italy)
- **2003:** *Visiting Researcher* (contractor), Intel, Phoenix, Arizona (USA)
- **2001 – 2002:** *Post-doc Fellow*, Politecnico di Torino, Torino (Italy)
- **1998 – 2000:** *Web Designer*, Oscar Marta S.a.S. (Italy)
- **1996 – 2000:** *R & D Engineer*, SOFT++ by Davide Rostagno & C (Italy)
- **1996 – 1999:** *Help-desk Responsible*, “Politecnico a Casa” Internet provider (Italy)

Teaching

- **Membro effettivo del Collegio di Ingegneria Informatica, del Cinema e Meccatronica**

Year 2022/2023

- *Computer architecture* [in English], Turin Polytechnic University in Tashkent (Tashkent, Uzbekistan)
- *Computational intelligence* [in English], Politecnico di Torino (Torino, Italy)
- *Computer sciences* [in English], Politecnico di Torino (Torino, Italy)
- *The Future of Work* [in English], Politecnico di Torino (Torino, Italy)
- *Mimetic learning* [Ph.D. course in English], Politecnico di Torino (Torino, Italy)

Year 2021/2022

- *Computer architecture* [in English], Turin Polytechnic University in Tashkent (Tashkent, Uzbekistan)
- *Computational intelligence* [in English], Politecnico di Torino (Torino, Italy)
- *Computer sciences* [in English], Politecnico di Torino (Torino, Italy)
- *The Future of Work* [in English], Politecnico di Torino (Torino, Italy)
- *Mimetic learning* [Ph.D. course in English], Politecnico di Torino (Torino, Italy)

Year 2020/2021

- *Computer architecture* [in English], Turin Polytechnic University in Tashkent (Tashkent, Uzbekistan)
- *Computer sciences* [in English], Politecnico di Torino (Torino, Italy)
- *Object oriented programming* [in English], Politecnico di Torino (Torino, Italy)
- *Mimetic learning* [Ph.D. course in English], Politecnico di Torino (Torino, Italy)

Year 2019/2020

- *Computer architecture* [in English], Turin Polytechnic University in Tashkent (Tashkent, Uzbekistan)
- *Computer sciences* [in English], Politecnico di Torino (Torino, Italy)
- *Object oriented programming* [in English], Politecnico di Torino (Torino, Italy)
- *Mimetic learning* [Ph.D. course in English], Politecnico di Torino (Torino, Italy)

Year 2018/2019

- *Computer architecture* [in English], Turin Polytechnic University in Tashkent (Tashkent, Uzbekistan)
- *Computer sciences* [in English], Politecnico di Torino (Torino, Italy)
- *Object oriented programming* [in English], Politecnico di Torino (Torino, Italy)
- *Mimetic learning* [Ph.D. course in English], Politecnico di Torino (Torino, Italy)

Year 2017/2018

- *Computer sciences* [in English], Politecnico di Torino (Torino, Italy)
- *Object oriented programming* [in English], Politecnico di Torino (Torino, Italy)
- *Mimetic learning* [Ph.D. course in English], Politecnico di Torino (Torino, Italy)

Year 2016/2017

- *Computer sciences* [in English], Politecnico di Torino (Torino, Italy)
- *Object oriented programming* [in English], Politecnico di Torino (Torino, Italy)
- *Mimetic learning* [Ph.D. course, with prof. E. Piccolo], Politecnico di Torino (Torino, Italy)

Year 2015/2016

- *Computer sciences* [in English], Politecnico di Torino (Torino, Italy)
- *Mimetic learning* [Ph.D. course, with prof. E. Piccolo], Politecnico di Torino (Torino, Italy)
- (Assistant) *Tecniche di Programmazione*, Politecnico di Torino (Torino, Italy)

Year 2014/2015

- *Computer sciences* [in English], Politecnico di Torino (Torino, Italy)
- *Mimetic learning* [Ph.D. course, with prof. E. Piccolo], Politecnico di Torino (Torino, Italy)
- (Assistant) *Tecniche di Programmazione*, Politecnico di Torino (Torino, Italy)

Year 2013/2014

- *Computer sciences* [in English], Politecnico di Torino (Torino, Italy)
- *Mimetic learning* [Ph.D. course, with prof. E. Piccolo], Politecnico di Torino (Torino, Italy)
- (Assistant) *Tecniche di Programmazione*, Politecnico di Torino (Torino, Italy)

Year 2012/2013

- *Apprendimento Mimetico* [Ph.D. course, with prof. E. Piccolo], Politecnico di Torino (Torino, Italy)
- *Computer sciences* [in English], Politecnico di Torino (Torino, Italy)
- (Assistant) *Tecniche di Programmazione*, Politecnico di Torino (Torino, Italy)

Year 2011/2012

- *Algoritmi e programmazione avanzata*, Politecnico di Torino (Verres/Ivrea, Italy)
- *Apprendimento Mimetico* [Ph.D. course, with prof. E. Piccolo], Politecnico di Torino (Torino, Italy)
- *Computer sciences* [in English], Politecnico di Torino (Torino, Italy)
- *Software engineering* [in English, with prof. A. Morisio], Tongji University (Shanghai, PRC)
- (Assistant) *Advanced programming* [in English], Tongji University (Shanghai, PRC)

Year 2010/2011

- *Algoritmi e programmazione avanzata*, Politecnico di Torino (Scano Di Montiferro, Italy)
- *Algoritmi e programmazione avanzata*, Politecnico di Torino (Verres/Ivrea, Italy)
- *Apprendimento Mimetico* [Ph.D. course, with prof. E. Piccolo], Politecnico di Torino (Torino, Italy)
- *Informatica*, Politecnico di Torino (Torino, Italy)

Year 2009/2010

- *Programming essentials* (i.e., *C programming on MATLAB*), *Tashkent Automotive Road Institute* (Tashkent, Uzbekistan) **Note:** EU-Founded project TEMPUS PROJECT CD-JEP 26123
- *Algoritmi e programmazione avanzata*, Politecnico di Torino (Scano Di Montiferro, Italy)
- *Algoritmi e programmazione avanzata*, Politecnico di Torino (Verres/Ivrea, Italy)
- *Apprendimento Mimetico* [Ph.D. course, with prof. E. Piccolo], Politecnico di Torino (Torino, Italy)
- *Elementi di informatica*, Politecnico di Torino (Torino, Italy)
- *Informatica*, Politecnico di Torino (Torino, Italy)

Year 2008/2009

- *Algoritmi e programmazione avanzata*, Politecnico di Torino (Scano Di Montiferro, Italy)
- *Algoritmi e programmazione avanzata*, Politecnico di Torino (Verres/Ivrea, Italy)
- *Apprendimento Mimetico* [Ph.D. course, with prof. E. Piccolo], Politecnico di Torino (Torino, Italy)
- *Elementi di informatica*, Politecnico di Torino (Torino, Italy)
- *Informatica*, Politecnico di Torino (Torino, Italy)

Year 2007/2008

- *Advanced programming* [in English], Tongji University (Shanghai, PRC)
- *Algoritmi e programmazione avanzata I*, Politecnico di Torino (Verres/Ivrea, Italy)
- *Algoritmi e programmazione avanzata II*, Politecnico di Torino (Verres/Ivrea, Italy)
- *Algoritmi e programmazione avanzata*, Politecnico di Torino (Scano Di Montiferro, Italy)
- *Apprendimento Mimetico* [Ph.D. course, with prof. E. Piccolo], Politecnico di Torino (Torino, Italy)
- *Elementi di informatica*, Politecnico di Torino (Torino, Italy)
- *Informatica*, Politecnico di Torino (Torino, Italy)
- *Programming essentials* [in English], *Tashkent Automotive Road Institute* (Tashkent, Uzbekistan)

Year 2006/2007

- *Algoritmi e programmazione avanzata I*, Politecnico di Torino (Ivrea, Italy)
- *Algoritmi e programmazione avanzata*, Politecnico di Torino (Scano Di Montiferro, Italy)
- *Elementi di informatica*, Politecnico di Torino (Torino, Italy)
- *Informatica*, Politecnico di Torino (Torino, Italy)
- (Assistant) *Algoritmi e programmazione avanzata II*, Politecnico di Torino (Ivrea, Italy)
- (Assistant) *Tecniche e Linguaggi di programmazione*, Politecnico di Torino (Torino, Italy)

Year 2005/2006

- *Algoritmi e programmazione avanzata I*, Politecnico di Torino (Ivrea, Italy)
- *Algoritmi e programmazione avanzata PRLP*, Politecnico di Torino (Ivrea, Italy)
- *Algoritmi e programmazione avanzata*, Politecnico di Torino (Scano Di Montiferro, Italy)
- *Informatica*, Politecnico di Torino (Torino, Italy)
- (Assistant) *Algoritmi e programmazione avanzata II*, Politecnico di Torino (Ivrea, Italy)
- (Assistant) *Elementi di Informatica*, Politecnico di Torino (Torino, Italy)
- (Assistant) *Tecniche e Linguaggi di programmazione*, Politecnico di Torino (Torino, Italy)
- (Tutor) *Algoritmi e programmazione avanzata*, Politecnico di Torino (Torino, Italy)

Year 2004/2005

- (Assistant) *Algoritmi e programmazione avanzata I*, Politecnico di Torino (Ivrea, Italy)
- (Assistant) *Algoritmi e programmazione avanzata I*, Politecnico di Torino (Torino, Italy)
- (Assistant) *Algoritmi e programmazione avanzata II*, Politecnico di Torino (Ivrea, Italy)
- (Assistant) *Algoritmi e programmazione avanzata II*, Politecnico di Torino (Torino, Italy)
- (Assistant) *Informatica*, Politecnico di Torino (Torino, Italy)
- (Assistant) *Tecniche e Linguaggi di programmazione*, Politecnico di Torino (Torino, Italy)
- (Tutor) *Algoritmi e programmazione avanzata*, Politecnico di Torino (Torino, Italy)

Year 2003/2004

- (Assistant) *Algoritmi e Programmazione Avanzata (TLC)*, Politecnico di Torino (Torino, Italy)
- (Assistant) *Elementi di Informatica*, Politecnico di Torino (Torino, Italy)
- (Assistant) *Tecniche e Linguaggi di Programmazione*, Politecnico di Torino (Torino, Italy)
- (Tutor) *Algoritmi e Programmazione Avanzata*, Politecnico di Torino (distance learning)

Year 2002/2003

- (Assistant) *Algoritmi e Programmazione Avanzata (Automazione)*, Politecnico di Torino (Torino, Italy)
- (Assistant) *Algoritmi e Programmazione Avanzata (TLC)*, Politecnico di Torino (Torino, Italy)
- (Assistant) *Algoritmi e Programmazione Avanzata*, Politecnico di Torino (Ivrea, Italy)
- (Assistant) *Elementi di Informatica*, Politecnico di Torino (Torino, Italy)
- (Assistant) *Tecniche e Linguaggi di Programmazione*, Politecnico di Torino (Torino, Italy)
- (Tutor) *Algoritmi e Programmazione Avanzata*, Politecnico di Torino (distance learning)

Year 2001/2002

- (Lab assistant) *Algoritmi e Programmazione Avanzata*, Politecnico di Torino (Torino, Italy)
- (Lab assistant) *Informatica 1*, Politecnico di Torino (Torino, Italy)

Year 2000/2001

- (Lab assistant) *Reti Logiche*, Politecnico di Torino (Torino, Italy)

Year 1999/2000

- (Assistant) *Fondamenti di Informatica III*, Politecnico di Torino (Ivrea, Italy)
- (Assistant) *Fondamenti di Informatica*, Politecnico di Torino (Torino, Italy)
- (Tutor) *Calcolatori Elettronici II*, Politecnico di Torino (distance learning)
- (Tutor) *Fondamenti di Informatica*, Politecnico di Torino (distance learning)

Year 1998/1999

- (Assistant) *Reti di Calcolatori I*, Politecnico di Torino (Torino, Italy)
- (Tutor) *Calcolatori Elettronici II*, Politecnico di Torino (distance learning)

Publications

Books

1. E. Sanchez, G. Squillero, and A. Tonda. *Industrial Applications of Evolutionary Algorithms*. Vol. 34. Springer, 2012, pp. i–120. ISBN: 9783642274664. DOI: 10.1007/978-3-642-27467-1.
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11. M. Baldi, F. Corno, M. Rebaudengo, M. Sonza Reorda, and G. Squillero. “GA-Based Verification of Network Protocols Performance”. In: *Telecommunications Optimizations: Heuristic and Adaptive Techniques*. NEW YORK: Wiley and Sons, 2000, pp.185–198. ISBN: 9780471988557.

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1. N. Bellarmino, R. Cantoro, M. Huch, T. Kilian, U. Schlichtmann, and G. Squillero. Semi-Supervised Deep Learning for Microcontroller Performance Screening. In: *2023 IEEE European Test Symposium*. IEEE, in press.
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3. F. Angione, D. Appello, J. Aribido, J. Athavale, N. Bellarmino, P. Bernardi, R. Cantoro, C. De Sio, T. Foscale, G. Gavarini, J. Guerrero, M. Huch, G. Iaria, T. Kilian, R. Mariani, R. Martone, A. Ruospo, E. Sanchez, U. Schlichtmann, G. Squillero, M. Sonza Reorda, L. Sterpone, V. Tancorre, and R. Ugioli. Test, Reliability and Functional Safety Trends for Automotive System-on-Chip. In: *2022 IEEE European Test Symposium (ETS)*. IEEE, 2022, pp.1–10. ISBN: 978-1-6654-6706-3. DOI: 10.1109/ETS54262.2022.9810388.
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6. S. Pellegrino, M. Rebuglio, and G. Squillero. Public-Private Partnership: Evolutionary Algorithms as a Solution to Information Asymmetry. In: *International Conference on the Applications of Evolutionary Computation (Part of EvoStar)*. Vol. 13224. Springer, 2022, pp.110–123. ISBN: 978-3-031-02461-0. DOI: 10.1007/978-3-031-02462-7_8.
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