Curriculum Vitae et Studiorum

PERSONAL INFORMATION **SANDRO ZACCHINO**

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Sex Male | Date of birth 27 Aug 1973 | Nationality Italian

WORK EXPERIENCE

30 Dec 2016 – today Computer Science Engineer

University of Salento
Piazza Tancredi, 7 IT-73100 Lecce (Italy)

Computer Science Engineer in Technical and Technological Department of
University of Salento

Business or sector Professional and technical activities

7 Jan 2015 – 30 Dec 2016 Technical Specialist

AD Solutions – Corso Unione Sovietica 612/3c Turin - Italy
part of Altair Engineering Group, 1820 East Big Beaver Troy, MI 48083 United
States
Software Engineer in Hypermesh Core Modules.

Business or sector Professional and technical activities

1 Jan 2013 – 31 Dec 2014 Computer Science Engineer, Phd

University of Salento
Piazza Tancredi, 7 IT-73100 Lecce (Italy)

Design and development of an innovative quality control system to circumvent
some of the major drawbacks deriving from adoption of automated cutting
systems in the leather industry. A new method to quantify the discrepancies
between the geometric data, obtained from a machine vision system, and the
nominal model has been developed and a statistical process control was used to
monitor the production process.
References
A. Grieco, M. Pacella, S. Zacchino, M. Blaco, Image-based control charts for
monitoring non linear and closed profiles, not yet published

Design and development of a Decision Support System (DSS) in the field of

multimaterial stretchable films. Development of mathematical linear models and heuristics for finding the optimal schedule of a set of orders for the production plant machines.

References

P. Caricato, A. Grieco, S. Zacchino, Multi-attribute scheduling on unrelated machines, 20th Federation of Operational Research Societies (IFORS), 13-18 July, 2014, http://ifors2014.upc.edu/, not yet published

Business or sector Professional, scientific and technical activities

16 Dec 2009 – 15 Dec 2012   Computer Science Engineer, Phd

University of Salento
Piazza Tancredi, 7 IT-73100 Lecce (Italy)

Design and development of a multi-objective constraints programming model using OPLScript and ILOG CP solver to solve the scheduling problem of a book manufacturing industry.

Design and development of a Decision Support System for workload assignment based on human expertise and skills. The DSS uses mathematical models implemented in CPLEX.

Business or sector Professional, scientific and technical activities

1 Feb 2008 – 15 Dec 2009   Post Doctoral Researcher

University of Salento
Piazza Tancredi, 7 IT-73100 Lecce (Italy)

Design and development of a Decision Support System for production scheduling in a furnishing manufacturing company. This software included an Advanced Planning mathematical model, a Workload Assignment model and a short term assignment model.

Design and development of a Decision Support System for solving the problem of raw material aggregation and assignment in a leather manufacturing industry.

Design and development of a Decision Support System for workload assignment based on human expertise and skills.

Business or sector Professional, scientific and technical activities

1 Jan 2007 – 1 Jan 2009   Computer Science Engineer, Phd

University of Salento
Piazza Tancredi, 7 IT-73100 Lecce (Italy)

Teaching instructor of a course about optimization modeling with linear programming solvers such as IBM ILOG OPL Studio or GNU GLPK. Department of Innovation Engineering.

Business or sector Education

5 Nov 2005 – 5 Nov 2007   Post Doctoral Researcher

University of Naples Federico II
Piazzale Tecchio 80 IT-80125 Napoli (Italy)

Development of 2D geometric heuristic for solving the leather nesting problem applied to a world-wide leather firm in the field of leather sofa production.

Business or sector Professional, scientific and technical activities

1 Mar 2001–1 Nov 2005   Computer Science Engineer

University of Salento
Piazza Tancredi, 7 IT-73100 Lecce (Italy)

Research in the field of simulation and optimization of logistics and manufacturing systems. Design of DEOS (Discrete Event Object-oriented Simulator), an open-source framework for development of simulators for the manufacturing systems. DEOS was funded by MIUR (Ministry of Education, Universities and Research – FIRB RBNE013SWE, Architectures and information technologies for development and evolution of open-source softwares for distributed simulation in the manufacturing field). This research was also important for the analysis of complex health systems and for development of a fuzzy time-based simulator.
References
Project Website: http://sourceforge.net/projects/simdeos/

P. Caricato, A. Grieco, F. Nucci, S. Zacchino, A. Anglani: "An open-source visual environment for discrete event simulation: DEOS", Conferenza ISCS (Italian Society for Computing Simulation) Naples, Italy, 6 December 2001.

L. Castelluzzo, A. Grieco, F. Nucci, S. Zacchino, A. Anglani:"An Open Source Object-Oriented Architecture for discrete event simulation", European Simulation and Modelling Conference (ESMc), Paris, France, 25-27 October 2004.

Business or sector Professional and technical activities

EDUCATION AND TRAINING

1 Nov 2003 – 1 Feb 2007   PhD in Operations Research   Advanced university studies
                                                                        (Doctorate)

University of Calabria
via Pietro Bucci IT-87036 Arcavacata di Rende (Italy)

Development of an optimization heuristic in the field of nesting of irregular (non-convex) 2d shapes inside an irregular 2d container to maximize usage of the container (with application to the case of a leather industry).
References
A. Grieco, S. Zacchino: "A new solution for the nesting problem of irregular shapes on irregular containers", 17th International Conference on Flexible Automation and Intelligent Manufacturing (FAIM2007), Penn State Great Valley, USA, 17-20 June

2007.

1 Nov 1992 – 1 Feb 2001	**Degree in Computer Science Engineering**	University studies (Master)

University of Salento
Piazza Tancredi, 7 IT-73100 Lecce (Italy)

Achievement of the degree in Computer Engineering with a dissertation on implementation and performance measurements of RSVP Overhead Reduction Extensions, a set of enhancements to the standard IETF RSVP protocol later standardized in the RFC 2961 "RSVP Refresh Overhead Reduction Extensions".
References
F. Tommasi, S. Molendini, S. Zacchino: "Measurements of the Performance of the RSVP Protocol", in Proceedings of the Workshop on Architectures for Quality of Service in the Internet Art-QoS 2003, Warsaw, Poland, 24-25 March 2003.
IETF RFC 2961

PERSONAL SKILLS

Mother tongue(s)   Italian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English				
B2	C1	B2	B2	C1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference for Languages

Other skills   Known programming languages: C, C++, C#, Java (J2SE, J2EE, JavaCard), Objective-C, Python, PHP, Javascript, SQL, TCL, dot, plantuml

Known tools: Gnu C e C++, Visual Studio, Eclipse, Netbeans, XCode, LaTex, Corel Draw, Adobe Illustrator, Inkscape, Microsoft Office, OpenOffice, iWork, Omnigraffle, Adobe Photoshop

Driving licence   B, B1

Lecce, 30 Marzo 2017