CURRICULUM VITAE ET STUDIORUM

Prof. Eng. Roberto Revetria, PhD
Born in Albenga (SV), Italy on 18th December 1972

- ***Full professor at the University of Genoa, Polytechnic School (Faculty of Engineering and Architecture), Professor of Reference for his own and similar sectors***
- Member of the Polytechnic School Teaching Committee.
- Member of the Doctoral Panel for the doctorate in "MECHANICAL, ENERGY, MANAGERIAL AND TRANSPORTATION ENGINEERING" c/o the University of Genoa.
- Honorary Professor at the Sofia Technical University (Технически университет) nominated with Rectoral Decree on March 28th, 2018..
- Visiting Professor at Bauman Moscow State Technical University, Bauman MSTU (Московский государственный технический университет им. Н. Э. Баумана)
- **NATO SECRET (N.O.S.) Clearance from 3.4.2003 to 9.12.2012 (Prot. 39309 University of Genoa POC) for research working in defense related projects.**

Degrees

- Qualified Professional Engineer
- Doctor of Philosophy (PhD) at the University of Parma
- **Mechanical Engineering Degree (former university regulations, five-year Master's Degree) graduating *summa cum laude* from the University of Genoa**
- High School Diploma c/o ITC "Boselli" of Loano (SV), Italy, graduating *summa cum laude*

Professional Experience

- (2011-Present) Full professor, University of Genoa
- (2007-2011) Associate Professor, University of Genoa
- (2000-2007) University Researcher, University of Genoa
- (1999-2001) Cycle XIV PhD Student, University of Parma
- (1999) Ford Motor Company, Detroit, USA, Advanced Manufacturing Department (practicum)
- **(1998-1999) Navy Officer "Sub-lieutenant (AN [Naval Ordinance Corps])", NATO: OF-1, Italian Navy**

Languages
Mother tongue: Italian
Other languages (Self-Assessment):

	Understanding		***Spoken***		***Written***
	Listening	*Reading*	*Interaction*	*Production*	
English	C2	C2	C2	C2	C2
French	C2	C2	C2	C2	C2

Based on the Common European Framework of Reference for Languages: Learning, Teaching, Assessment (CEFR) for levels Basic (A), Independent (B), Proficient (C).

Curriculum vitae
Eng. Roberto Revetria graduated with top marks in 1998 and nominated navy officer in the Italian Navy as **Sub-lieutenant in the Naval Ordinance Corps / Guardiamarina (AN): NATO Code: OF-1**. From July 1998 to July 1999 he was assigned as Chief of Control and Testing Services for the Naval Arsenal of Taranto where he filled the position of Control and Testing Manager for Ground-based entities; during this period he developed vast experience in managing the testing of Technical Systems and Civil Works (re-engineering Field Artillery Maintenance, Testing scaffolding in on-board works, maintenance of weapons systems, maintenance of man-in-the loop simulators) and in reorganizing the Ground-based Entities Control and Testing Service coordinating 15 personnel. In 1999 he won the Cycle XIV PhD Scholarship at the University of Parma - Engineering Department, the degree of which he completed in October 2001, earning a PhD at the University of Parma on 27th February 2002 discussing the thesis "Production systems and industrial plants". He also received 3 scholarships focused on research activity: in 1999 for joint research activity with the University of Michigan, Dearborn, in 2002 from Boston College and in 2004 c/o the Virginia Modeling and Simulation Center (VMASC). In December 2000, he took the Level D Project Manager Certification exam with the International Project Management

Association which he passed with effect on 20th December. In November 2000, he also won the competition for the position of researcher at the University in Genoa where he reported for duty c/o the Production Engineering Department. His research immediately focused on the study, development and implementation of complex modeling and simulation systems covering every aspect associated with mechanical engineering and production facilities and systems. The experience he personally gained in constructing models and computer analysis tools led him to develop complex programs and *ad hoc* models with **multi-purpose languages (C/C++, Java, Tcl/Tk, Python, Php, Fortran, Pascal, VBA) and with dedicated modelling languages (ANSYS, Matlab/Simulink, Simula, AnyLogic, OloBeam, Autodesk Force Effects, Flexsim, Automod, Simul8, ESL, GPSS/H, Arena, Witness, Plant Simulation, Powersim, iThink/Stella, VenSim, Berkeley Madonna)**. **He has experience in many embedded systems used in research projects prototyping and in production systems.** He used and developed models in virtual reality for Virtual Design using graphical as well as Web-Oriented environments (Aveva, Atmosphere, Java 3D, Blender, Vega Prime, Multigen-Creator). In March 2004, he also won the Competition for the position of Associate Professor c/o the University of Parma**. He was also Associate Director of the McLeod Institute of Simulation Science (MISS), with headquarters in San Diego CA, USA.** From 2008 to 2012, **he covered the position of Director of Research of the Simulation Division of the company Iso Systems of Genoa**. He won the competition, for the position of Full Professor, held by the Polytechnic University of Milan in July 2010, he reported for duty as Full Professor with effect on 30th December 2011. From 2001 to 2013, he was Deputy Director of the Italian Centre of Excellence on Integrated Logistics (CIELI). As Full Professor for his scientific sector and related areas, for the Genoa campus, he coordinated the development of research and teaching of professors in his sector and related sectors, he developed and coordinated the reorganisation in the teaching the Bachelor course in Safety Engineering for Transport, Logistics, and Production and in promoting the Double Degree agreement with the Technical University of Moscow Bauman. Since the beginning of his career as a teacher (2002) he has always personally supervised the development of his assigned university courses with direct responsibility in defining the program and the development of the appropriate educational material (slides, duplicated lecture notes, books, publications and tutorials). His is currently the Coordinator of the MIG-DIME (Department of Mechanical, Energy, Managerial and Transportation Engineering) section where he coordinated 33 teachers. He covered the position of Guidance Representative in the University Guidance Committee and Coordinator of the Polytechnic School Guidance Committee (Engineering and Architecture), he actively participated in the Polytechnic School Teaching Committee and saw to international exchanges, coordinating student mobility for various Erasmus and extra-LLP agreements for which he is the liaison. Since 2013, he has been Visiting Professor for the "Industrial Safety Principles and Modeling Tools" course at the Technical University of Moscow Bauman. In 2014**, he was mentioned to Italian Foreign Minister Paolo Gentiloni among the three scholars proposed to fill the position of Scientific Attaché at the Embassy of Italy in Ottawa (Canada) (NOTICE OF ASSIGNMENT FOR EXPERT PURSUANT TO ART. 168 OF ITALIAN PRESIDENTIAL DECREE 18/67) during the 2014 selection (from a total of more than 90 candidates)**.

Professional Courses and Certifications

- **IPMA Level D Certified Project Manager with specialization in Engineering, Procurement and Construction (EPC) projects.**
- **ASW Anti-Submarine Warfare (SONAR, Weapon Systems)**
- **Weapon Systems and Artillery**
- **Electronics, RADAR and TLC**
- **HLA – High Level Architecture**
- **Military Communications (COMSEC)**
- **Organization of Military Services, Procedures and Standards (STANAG)**
- **VV&A for Military and Industrial Simulations (DOD 5000.59 and DOD 5000.61)**
- Healthcare Adventure @ CMS Harvard, USA

Research and scientific production activities

The research and scientific production activity has <u>focused in particular on applied modeling and simulation in the industrial sector at various levels: from physical-structural modeling of installations to aspects concerning processes, operating and optimizing production systems</u>. This approach has always been multidisciplinary and strictly application-oriented: each model was developed as a solution to a particular engineering problem within the framework of research contracts mainly entered into with industrial and private enterprises, and, although to a limited degree, with

government-owned companies. From this same particular "vocation" to the practical application and the industrial research he performed, Prof. Eng. Roberto Revetria has covered, with prior authorization of his University (see Authorisation no. 28712 of 24th November 2008), from 2008 until 2012, the position of Simulation Division Coordinator for the company Iso Systems Srl where he coordinated the development team for numerous simulation models. He has also been a member of the board of directors of the Smartware and Data Mining of the University of Genoa university spin-off project from 2011 to 2012, the founder and Director of Research of company MeVB Consulting GmbH (www.mevb-consulting.ch), having characteristics of an International University Spin-Off project with headquarters in Olten, Canton of Solothurn, Switzerland, and promoter and member of the board of directors of the GdR srl (www.gdr-srl.com) University Spin-Off project of the University of Genoa from 2014 to 2017.

Prof. Eng. Roberto Revetria boasts an enormous scientific production gained over the years from 1999 (PhD) up till now. During his National Scientific Qualification exam (ASN 2016), he was in fact, noted among the ballotable commissioners (cf. Directorial Decree no. 1531 of 2016, Article 6, par. 3), since he met all requirements for excellence in research largely exceeding the limit required under Commissioner tenders (Application Protocol 738). In particular, as of 2017, he authored more than 300 scientific publications including:

Positions of responsibility in research and/or training.

Research activities at Italian and foreign public and private institutions;
Prof. Roberto Revetria is the coordinator of a section (MIG) made up by 33 teachers of the Department of Mechanical, Energy, Managerial and Transportation Engineering (DIME) and Professor of Reference of a group of 11 teachers pertinent to technological areas and industrial applications. As Section Coordinator, he manages and coordinates the main research and teaching activities and supports the administrative activities for research contracts. As Professor of reference, he coordinated research activities for his group and supervised the career progression and the growth of his group by identifying the guidelines, participating in Planning Committee meetings and providing organisational support to all study courses to which the teachers of his group belong. He has maintained relations with the national coordinating bodies of the scientific groupings of which he is liaison for the Genoa campus.

His research activity has been conducted both nationally, by collaborating with leading Italian Universities (Milan Polytechnic, Bari Polytechnic, University of Naples Federico II, University of Florence, University of L'Aquila, University of Salerno, Turin Polytechnic) and abroad at prestigious academic venues: University of Central Florida FL, Boston College MA, University of Michigan Dearborn MI, California State University CA, Riga Technical University LV, Université de AIX - Marseille III F, Ecole Supérieure des Ingénieurs IFMA F, Stevens Institute of Technology NJ, Delft Technical University NL, Charles University in Praha CZ, Technical University of Sofia, University of Nice Carlone, Bauman Moscow Technical University, University of Ulster, Brandeis University, Massachusetts Institute of Technology and in collaboration with some of the main centres of excellence (National Center for Simulation FL, NASA).

Services rendered at universities and in research agencies, Italian and foreign;
In collaboration with the SCS Chapter - Liophant Simulation Club (cf. www.liophant.org) he was professor of several Masters for Top Managers programs in the field of Simulation applied to design, management and optimization of industrial installations and process both in Italy and abroad. On behalf of SOGEA and Perform, he lectured for the "Masters in Integrated Logistics" in 2000, 2001 and 2002 for the ENI group staff and for the "Project General Management" Master for General Electric SpA staff. In collaboration with the Institute Mazzini of Savona, he lectured in the IFTS projects in 2000, 2001 and 2002. In collaboration with the RTU Riga Technical University in Latvia, he was a teacher in the Socrates/Erasmus project of which he was Coordinator. In collaboration with the U.S. Department of education (FIPSE) and the European equivalent (DGEAC), Stevens Institute of Technology NJ, USA, Boston College and the University of Central Florida FL, USA he conducted teaching and coordinating activity in the IEPAL multi-year transatlantic exchange project. He was also invited as Visiting Professor to California State University and is visiting professor at the Technical University of Moscow Bauman. He was a research associate from 2011 to 2014 at the Institute of Methodologies for Environmental Analysis (IMAA) that belongs to the Earth and Environment of National Research Council (CNR) Italy. He has collaborated with the University of Iwate Prefecture Japan from 2011 to the present time.

- He was Chief of the Industrial Engineering laboratory for Industry 4.0 at the Savona campus c/o the University of Genoa.
- Since 2015 he has been Coordinator of the MIG section of the Department of Mechanical, Energy, Managerial and Transportation Engineering (DIME), in charge of the research groups associated with the scientific sectors

ING-IND/16 (Technologies), ING-IND/17 (industrial and mechanical equipment) and ING-IND/35 (economic-managerial engineering) made up by 33 teachers, 12 PhD s and 4 research fellows.

- Reviewer and evaluator of national and international scientific projects on behalf of:
  - CINECA, Interuniversity Consortium
  - The Italian Ministry of Public Education, Directorate General for the Development and Coordination of research, Office V
- Up until 2012 he has been a member on the board of directors of the Smartware and Data Mining academic spin-off project of the University of Genoa.
- Since 2010, he has collaborated with Prof. Hamido Fujita of Iwate Prefectural University Japan on the subject of applying advanced IT techniques for the management of regional emergencies.
- Since 2011, he has collaborated with Professor Bradley Morrison at MIT in Boston on the subject of modeling and simulating health structures and processes.
- Since 2011, he has collaborated with Professor Jeffrey Cooper of the Harvard Center for Medical Simulation (CMS) in Boston on health-process modeling and simulation.
- Since 2014, he has collaborated with Professor Paul Hanna of Ulster University Belfast UK on the subject of advanced home automation in support of improved ergonomics for work.
- He has coordinated and followed numerous research and international scientific cooperation projects both in the European context (Tempus Tacis//Alpha) and nationally (Ministry of Foreign Affairs).
- Since 2011, he has been a member of the Scientific Committee and teacher for the Level II University Masters in Industrial Plant Engineering, Masters in the Management of Integrated Logistics Systems, Masters in System Engineering and Project Management and the Masters for Innovation in the Public Administration of the University of Genoa.
- He was in charge of research line 1 of the Centre of Excellence of the University of Genoa (CIELI) with Prof. Roberto Mosca.
- In 2011-2013, he covered the position of Deputy Director of the Italian Centre of Excellence for Integrated Logistics (CIELI), the type-A expense centre c/o the University of Genoa (Director *Prof.* Renato Midoro).

The organization, management and coordination of research groups;

Within the co-funded MURST Research Projects (no. 9909112115 "Integrated Management of Interactive Production Systems - Advanced Methods for Quick Response- WILD I" and No. MM 09117398 "Supply Chain Management by the Federation of Interacting Simulators - WILD II") he coordinated the development of the simulation platform HLA 7 of Italian Universities (University of Genoa, University of Aquila, Bari Polytechnic, University of Florence, Milan Polytechnic, University of Naples, University of Salerno) and, regarding this, he coordinated the work of three foreign university groups (RTU Riga Technical University, Technical University in Sofia and TU Delft).

- Together with Prof. Piero Giribone, he coordinated the development of planning and support tools for Reverse Logistics of Electronic Waste named “Players Integration and Recovery Network Governance - PING Methods and Models for Electronic Waste collection and recovery Electronic Waste" in the context of the Research Project of National Interest (PRIN2005): National coordinator Prof. Augusto di Giulio, File Number 2005094804_001
- Together with Prof. Piero Giribone, he coordinated the development of planning and support for "Risk management in the operations planning” within the scope of the Research Project of National Interest (PRIN2007): National coordinator Prof. Augusto di Giulio, File Number 2007BETYY4_005
- He coordinated International project EVENE for the creation of a Virtual Campus system focused on teaching specialist courses for Managerial and Mechanical Engineering (Maintenance Management, Project Management, Industrial Production Management, Economy Applied to Engineering); the project was funded by the European Commission under the 6th Framework Program (Grant Agreement Number: 2005 - 3837 /001-001 ELE-ELEB12). This project involved the University of: Zlin (CZ), Huddersfield (UK), Galway (IRL), Varkaus (FI), Riga (LV), Genoa (IT), Hradec Kralove (CZ) and Plzen(CZ).
- In collaboration with Prof. Mansooreh Mollaghasemi (University of Central Florida FL, USA), Prof. Norbert Giambiasi (Université de Aix - Marseille III France), Prof. Erol Cesmebasi (Stevens Institute of Technology Hoboken, NJ, USA), he collaborated in the IEPAL transatlantic training project (no. 2000-0706/001-001 CPT-CPTUS) coordinating the logistical aspects in the United States.
- In collaboration with Prof. Eng. Gianni Mummolo of Bari Polytechnic University, he covered the position of coordinator for the development of a decisions support tool based on neural models named TDIt for the analysis of the environmental impact in accordance with ISO14000 for the production plant of Common Rail pumps at the Diesel technology plants of the Bosch Group.

- In collaboration with Professor Robert Signorile of Boston College MA (USA), he coordinated the development of Multi-agent systems based on Swarm Intelligence techniques applied to complex-systems simulation, creating a simulating system distributed to mobile agents implemented in JINITM technology (Swarm Simulation Agents Project).
- In collaboration with Prof. Edward J. Williams of Dearborn University MI (USA), he developed a decision support system based on COTS simulators to optimise the Ford Focus production line at the Hermosillo (Mexico) plant and to reorganise stock management for the PRC/PDCs complex for the North American Ford group.

Management or participation in editorial committees of magazines, editorial collections, encyclopaedias and essays of recognized prestige

- Member of the editorial board of the International Journal of Information Systems and Supply Chain Management (IJISSCM)
- Member of the Editorial Board of the Journal of Engineering, Computing Architecture
- Member of the editorial board of the Handbook of Research on Discrete Event Simulation Environments: Technologies and Applications
- Member of the editorial board of JSE, the Journal of Security Engineering
- Member of the editorial board of the Journal of Mechanical, Aerospace and Industrial Engineering
- Member of the editorial board of the Journal of Computer Science, Informatics and Electrical Engineering from
- General Chair - 11th International Conference on Intelligent Software Methodologies, Tools, and Techniques (SOMET_12)
- Member of the editorial board of Bezopasnost' v technosphere (Russian)

Teaching assignments or research (fellowship) assignments at qualified foreign or supranational universities and research institutes:

Bauman Moscow State Technical University

- Professor of "Industrial Safety Principles and Modelling Tools" 36 hours (3 Credit Points) contract 02/3-135/1217 authorized by the Department of Mechanical, Energy, Managerial and Transportation Engineering (DIME from 1st September 2013 to 28th February 2014
- Description of Responsibilities: Professor of "Industrial Safety Principles and modelling Tools" 36 hours (3 Credit Points) authorized by the Department of Mechanical, Energy, Managerial and Transportation Engineering (DIME) from 1st March 2015 to 30th June 2015
- Description of Responsibilities: Professor of "Industrial Safety Principles and Modelling Tools" 36 hours (3 Credit Points) authorized by the Department of Mechanical, Energy, Managerial and Transportation Engineering (DIME) from 22nd April 2016 to 21st July 2016

Awards and commendations for scientific activity including membership in Academies of recognized prestige in the field

- Certificate of Merit for the 2017 International Conference of Systems Engineering and Engineering Management.
- Certificate of Merit for the 2017 IAENG International Conference on Industrial Engineering
- Best Paper Award of International Conference on Modeling, Simulation and Control
- Certificate of Merit for the 2014 International Conference of Systems Engineering and Engineering Management.
- Visiting Harvard University cited as “Distinguished Visitor” in Office of the University Marshal 2009-2010 Report (Appendix B: Visitor List for Academic Year 2009-2010).

Proven ability to acquire national research projects (CTI) as well as to manage them from the financial, technical-scientific, team-work and customer relationship perspective.

Prof. Roberto Revetria has coordinated several research projects financed by both companies and entities (Ministry of Education, University and Research - MIUR/MURST, Regions and the European Commission and the Ministry of Foreign Affairs, US Department of Education). In particular, all Italian Ministry of Education, University and Research, US Department of Education, and regional projects have been evaluated by several rounds of peer review processes. In these projects, Prof. Roberto Revetria always had a technical coordination position and served as a Director of Research

or POC (Proof of Concept) Development Manager. He has fully managed the project budget and customer relationships by adopting project management techniques. Listed below are the major peer-reviewed projects in which he participated, with the indication of the overall funding:

- Co-funded Research Project MURST (no. 9909112115 "Integrated Management of Interacting Production Systems - Advanced Methods for Quick Response- WILD I"), amount EUR 318,653.00.
- Co-funded Research Project MURST (no. MM09117398 "Supply Chain Management by the Federation of Interacting Simulators - WILD II"), amount EUR 157,519.35.
- 6th Framework Program EVENE for the creation of a Virtual Campus system focused on teaching specialist courses for Managerial and Mechanical Engineering (Maintenance Management, Project Management, Industrial Production Management, Economy Applied to Engineering), Grant Agreement Number: 2005 - 3837 /001-001 ELE-ELEB12, an amount greater than EUR 300,000.
- Co-funded Research Project (MIUR PRIN2005): No. 2005094804_001, amount EUR 162,000.
- Co-funded Research Project (MIUR PRIN2007): No. 2007BETYY4_005, amount EUR 140,000.
- Project "Pilot initiative for Strengthening the Operational Capacities of the Provincial Institutions of Herat (AID 9400). Assistance and Training on Governance Issues in the Province of Herat -" co-funded by the Italian Ministry of Foreign Affairs for an amount greater than EUR 500,000.00.
- Project on the objective program "'REGIONAL COMPETITIVENESS AND EMPLOYMENT' 2007-2013 Operational Program, Competitiveness Part co-funded by F.E.S.R. - EUROPEAN REGIONAL DEVELOPMENT FUND for a total 60% co-funded amount greater than EUR 300,000.00.

Proven ability to build bridges and create synergy between his own research and training activities.

Prof Roberto Revetria has created a continuous and strong synergy between his research activities and his educational activities and training. In particular, all theses assigned by Prof. Revetria have always had a strong relation with his correlation with his own activities and, moreover, he has always carefully monitored "contamination" between the industrial-research component and his teaching activities, to provide students with up-to-date applicative examples and information to innovatively resolve problems encountered in real industrial cases. Many of the software and computing systems developed in original research have later been used in the courses. His various experiences include:

- Simulation model of the Steckel - Mill, MetInvest, Verona.
- Simulation model of the Steckel - Mill, a facility designed for Ferrania (SV), BaoSteel.
- Simulation model for the steelworks design, Customer Danieli, Udine and tests on Iskenderun plant.
- Simulation model for managing heat-treatment furnaces for NLMK Moscow, Russia.
- On-line /real-time simulation model for operating the electric steel plant in Verona for NLMK Moscow, Russia.
- Scheduling model for managing heat-treatment furnaces, rolling and forging for NLMK Moscow, Russia.
- Service on the simulation system for Gas transport over the national gas pipeline network, customer Atos Origin, Accenture, Etnoteam on behalf of Snam Rete Gas.
- Development of a detailed simulation model for steel-conversion, casting, and steel treatment processes for the Lucchini Steelworks of Piombino (LI), Italy.
- Development of a simulation model for steel production, ingot casting, stripping, and pit furnace transport for the Ascometal steelworks of Fos-sur-Mer.
- Development of a detailed simulation model of the rolling process for the fourth train of the Tra metal (Malacalza group) company of San Giorgio di Nogaro, Italy.
- Development of new optimisation techniques and integrated packages capable of operating automatically, interfacing with simulators to optimise different business conditions even when running over a distributed HLA (High Level Architecture) network; particularly noteworthy were the WILD and WILD II projects on behalf of the Italian Ministry of Public Education.
- The development of the applicative methodologies and the use of AI techniques (Fuzzy logic, neural networks, genetic algorithms) to solve off-line and on-line warehouse management problems (the AMT-SGS project) and Production Planning problems (FRINE Project) on behalf of Marconi Telecommunications.
- **Development of a simulation model in System Dynamics for the analysis of Sprint Drift procedures of the new Horizon-class frigate, Customer Fincantieri/Orizzonte Sistemi Navali.**
- **The development of an infrastructure for distributed immersive HLA simulation to support the training of port operators within the framework of the SITRANET project, client the Region of Lombardy.**

- **The development of human-behaviour simulation models to define the design requirements of on-board industrial canteens (Project in collaboration with CETENA/FINCANTIERI**).
- Development of a continuous simulation model to study the risks related to the storage of low-surface-tension hydrocarbons.
- Development of an emergency procedures and behaviour model for tunnel accidents on behalf of Autostrade management (A32 Turin-Bardonecchia highway).
- Development of a simulation model of the analysis department for executive management c/o Istituto Giannina Gaslini of Genoa.
- Development of decision support systems to evaluate complex equipment availability (DISPOS and POSDIS Projects) in civilian (postal automation) **and military fields (WSS&S Project) for weapon systems on behalf of Elsag spa (Leonardo).**
- **Development of analysis models to support the maintenance of complex power plants within the PUMA (Project for Ultimate Maintenance at Ansaldo) and TARAS (Finmeccanica Group) projects.**
- Development of a System Dynamics simulation model of maintenance process for technological systems of the A32 (Turin-Bardonecchia-Frejus) highway on behalf of the Gavio Group.
- **Development of a mathematical model to detect hostile vessels with new generation frigates (Orizzonte Sistemi Navali SpA, Fincantieri Group).**
- Development of a seaborne chemical-transport fleet planning, simulation and optimisation model on behalf of Enichem (Polimeri Europa SpA) ENI Group.
- Development of models to analyse logistics support for the collection of urban waste via the development of an integrated simulator with GIS (SCOOTER Project) on behalf of Municipal Urban Hygiene Service (AIMU) of Genoa.
- Development of a rail-passenger traffic model to optimise the transportation service on the Genoa-Casella metropolitan line.
- Development of an integrated simulation model to study inter-modal flows between the port of Genoa (VTE, S.E.C.H. and Messina) and the Dry Port of Alessandria.
- Development of the internal logistics model, receiving raw materials and shipping finished products (coils), for the Baosteel plant under construction in Ferrania (SV), Italy.
- Development and integration of logistics, B2B, and B2C support systems on geographical networks with particular reference to the ICARO Project.
- Development of a model to optimise the urban waste collection and treatment networks, the extension and application to the case of a differentiated collection with the development of algorithms to discover the optimal path and to size the fleet of waste collection vehicles.
- Development of the budgeting system to support management control process in Cognos Planning on Sistema Contabile AS/400 [AS/400 Accounting System].
- **Management of SAP module R/3 QM (Quality Management) on behalf of the DIP Consortium/HP Consulting/Waystech c/o the multinational group APTAR.**
- Analysis of and redefining the Risk Assessment and Risk Management process (Oil Carrier Simulation) for EGL Italia energy sector.
- Development of instruments to support the power requirements forecasts for telecommunications installations based on neural networks (NeuralComm2 Project) and simulation models (LogisticGE Project) on behalf of Telecom Italia SpA.
- Development of an analysis model of sales profiles for the large-scale distribution sector to detect abnormal events resulting from sales promotions within the scope of the DICOSAP project on behalf of Coop Liguria.
- Development of a scheduling system for the new surgery department of the Galliera Hospital with an increase in the use of teams from 48% to 75%.
- Development of a new management system for recorded video events in the event of an accident on urban and suburban buses for Kolimat USA and Octocam (Octo Telematics Group).
- Development of an innovative distributed simulation model based on the Jini protocol and military applications on behalf of Boston College.
- Development of an innovative methodology to support the collection of MSW (4 projects: Planago, the City of Termoli, Ingauna Mountain Community, Eco-Net).
- **Development of a new modelling and simulation methodology to support complex systems for the oil and gas sector (4 projects: ENEL, SAIPEM, Morocco, LNG-Gazifier).**
- Application of the 6-Sigma paradigm to some specific Enel Green Power processes.
- Implementation of a new management system named GAS for AXPO AG based on the AS4 protocol.

- Support managing and optimising processes for the Administration of the Patrimony of the Apostolic See (A.P.S.A.) from the perspective of BPR (3 projects).
- Development of a forecasting model to determine power consumption of complex industrial installations for EGL Italia/AXPO AG.
- Analysis of the steelworks of Mobarakeh Steel Company Isfahan Iran and drafting of the master plant.
- Development of simulation and support to design handling systems at the port of Al faw, under construction in IRAQ.
- **Support in determining scenarios for the military use of plants and components sold in countries at risk, implementing EC Regulation 428/2009 as amended and supplemented and Italian Decree Law no. 96 of 9th April 2003.**
- Development of a propagation model for gaseous mixtures in porous media applied to the study of MSW landfills.
- **Development of an immersive virtual-reality simulation system for training operators on port cranes (9 models, Quay Crane, Mobile Harbour Crane, Straddle Carrier) for PTI Alexandria, Egypt.**
- Development of innovative solutions to improve the intrinsic safety of the Generation IV nuclear reactors "Alfred" on behalf of the SIRE Consortium.
- Development of an immersive simulation system in virtual training reality for Barges and Tugs, RESET Project (structural and dynamic model), Region of Lombardy.

All projects listed above required the publication of scientific results obtained in magazines and international conferences proceedings with peer review listed in list of publications at the end of this curriculum. For purposes of industrial secrecy, the results of certain projects were published only after anonymization of the results. The following areas of research were also developed:

Structural and operational development of transportation systems and autonomous vehicles

This line of research originated from collaboration with RINA that highlighted the economic convenience of building a LTA (lighter than air) drone (UAV) for long-distance transport of CNG with considerable economic savings. The studies regarded both logistical and operational aspects of the new transport system and the structural design of the means with a study of structural stresses, the selection of construction materials and an evaluation of the stresses under operational scenarios. The research included also the design of the on-board navigation systems (hardware and software), propulsion systems, communication systems and their prototyping based on Design-for-purpose embedded systems and COTS components. This line of research was also extended to patrolling, search and rescue and surveillance purposes. The level of flexibility and economic convenience obtainable with this means is extremely interesting for the Oil & Gas sector, since it allows the exploitation of deposits currently not economically exploitable. A patent application is in progress for the structural and technological solutions identified during the research. Some publications:

- G. Capitta, L.Damiani, S. Laudani, E. Lertora, C. Mandolfino, E. Morra, and R. REVETRIA, "Structural and Operational Design of an Innovative Airship Drone for Natural Gas Transport over Long Distances," Engineering Letters, vol. 25, no.3, pp247-254, 2017 ISSN: 1816-0948 (online version); 1816-093X (print version).
- G. Capitta, L. Damiani, S. Laudani, R. REVETRIA, E. Morra, Mechanical Design of an Innovative Method for CNG Transporting over Long Distances: Logistics, Executive and Operative Aspects". Lecture Notes in Engineering and Computer Science: Proceedings of The International MultiConference of Engineers and Computer Scientists 2017, IMECS 2017, 15-17 March, 2017, Hong Kong, pp 780 785.
- Giribone, P., R. REVETRIA, Testa, A., Vernengo, G., Rizzuto, E., Longo, R., 7th International Conference on Applied Mathematics, Simulation, Modelling. (2013). A Simulation Based Methodology for Supporting CNG Ship Design. Paper presented at the Recent Advances in Mathematics, Cambridge, MA, USA.
- Damiani, L., REVETRIA, R., Giribone, P., & Guizzi, G. (2015). Simulative comparison between ship and airship for the transport of waste natural gas from oil wells. Paper presented at the Proceedings of the Summer School Francesco Turco, (Industrial Systems Engineering) 228-232.

Ocean engineering, underwater systems and experimentation

This line of research starting from an experience in the Italian Navy (4th Official Reserve Naval Officer) as Sub-lieutenant in the Naval Ordinance Corps. From July 1998 to July 1999 I was assigned as Chief of Control and Testing Services for the Naval Arsenal of Taranto where I filled the position of Control and Testing Manager for On-board and Ground-based installations; during this period I developed vast experience in managing the testing of Technical Systems and Civil Works (re-engineering Field Artillery Maintenance, Testing scaffolding in on-board works, maintenance of weapons systems, maintenance of man-in-the loop simulators) and in reorganizing the Ground-based Entities Control and Testing Service coordinating 15 personnel. This line of research involved many military projects with a special focus on IEEEE 1516 HLA

distributed simulations in partnership with Orizzonte Sistemi Navali, Fincantieri and Cetena working over the Horizon Common New Generation Frigate – CNGF and in many other projects related to ASW and patrolling. I cooperation with RIA SpA (Registro Navale Italiano) and the Arab Academy for Science and Transportation (AAST, Alexandria Egypt) several projects related to maritime logistics were implemented including the definition of an innovative Modeling and Simulation Paradigm especially for off shore oil rigs, maritime material handling and safety procedure on dangerous goods. The research also was targeted for supporting new vessel design (civil and military) involving underwater acoustic and sonar/echo-sounder related problems. In cooperation with Intermarine company the activity was related to support sea trials, commissioning, HAT procedures of on board plants and in particular the Frost Guard Protection on the Finnish Navy MCMV 2010. This activity also included doing experimentation at sea, in particular for a project **aimed to develop a Class II ROV with a probe designed to capture various data (temperature, salinity, etc.). The research also included specific experience in underwater acoustics including sonar (active and passive, beamforming) as well as modelling of interaction among vessels and biological entities**. Some research activities were related to Design of Experiment (DOE) methodology in order to reduce and control the cost of the physical and simulated experimentation including the optimization of the experimental campaign and the use of statistical methodologies to maximize the effectiveness of the experiment sets. Some publications:

- Filippi, S., Giribone, P., R. REVETRIA, Testa, A., Guizzi, G., Romano, E. (2014). Design Support System of Fishing Vessel Through Simulation Approach. In Transactions on Engineering Technologies (pp. 615-629): Springer Netherlands.
- Filippi, S., Giribone, P., R. REVETRIA, Testa, A., World Congress on Engineering and Computer Science, WCECS. (2013). An integrated model for supporting better fishering vessel design by modelling fish schools dynamics ready for HLA. Paper presented at the Lecture Notes in Engineering and Computer Science, San Francisco, CA; United States.
- A. Guaganano, Perra, F., Dazzi, N., R. REVETRIA, Zaghi, P., MAST. (2007). Asymmetric Threat : Maritime border control. Paper presented at the Proceedings of MAST2007.
- Giribone, P., R. REVETRIA, Testa, A., Vernengo, G., Rizzuto, E., Longo, R., . . . 7th International Conference on Applied Mathematics, Simulation, Modelling. (2013). A Simulation Based Methodology for Supporting CNG Ship Design. Paper presented at the Recent Advances in Mathematics, Cambridge, MA, USA.
- REVETRIA R., Bruzzone, A. G. (2003). VV&A for Innovative Concept Design in New Vessels Simulation and Virtual Prototypes. SIMULATION SERIES, 35, 748-754.
- Enrico, Briano, Claudia, Caballini, Davide, Modula, R. REVETRIA, Alessandro, Testa, 9th WSEAS International Conference on System Science and Simulation in Engineering, ICOSSSE'10. (2010). A system dynamics approach for managing the LNG procurement for an offshore platform feeding a power plant. Paper presented at the International conference on System Science and Simulation in Engineering - Proceedings, Iwate, Japan.
- Cassettari, L., Mosca, R., R. REVETRIA. (2012). Monte Carlo Simulation Models Evolving in Replicated Runs: A Methodology to Choose the Optimal Experimental Sample Size. MATHEMATICAL PROBLEMS IN ENGINEERING, 2012, 1-17.
- Lucia Cassettari, Simona Cipollina, Pietro Giribone, Roberto Mosca, Roberto REVETRIA. (2008). Theoretical development and applications of the MSPE methodology in discrete and stochastic simulation models evolving in replicated runs. JOURNAL OF ENGINEERING, COMPUTING, AND ARCHITECTURE, 2, 1-25.
- MOSCA, R., A.G, BRUZZONE, REVETRIA R., Conference, XVIII International Port. (2002). Cooperation in Maritime Training Process using Virtual Reality Based and HLA Compliant Simulation. Paper presented at the Proceedings of XVIII International Port Conference, Alexandria Egypt.

<u>Improving the efficiency of production processes</u>

This line of research regards the application of modelling and simulation techniques to increase the efficiency of production processes both in the industrial and in civilian field in private, public and military sectors. This research topic benefits from a very considerable interaction between businesses and universities, since most of the research is requested directly by industry and Public Administrations. More than 40 consulting and research contracts were stipulated with leading private and government-owned companies and with the military sector, allowing him to publish more than 200 internationally peer-reviewed scientific articles. Especially noteworthy is the decades-long consulting Prof. Roberto Revetria provides to the Holy See (Administration of the Patrimony of the Apostolic See). The main industrial sectors concerned were:

- the civil and industrial construction sector
- the Engineering, Procurement & Contracting (EPC) sector
- the steel and metallurgical sector
- the chemical sector

- the automotive manufacturing sector
- the oil & gas sector
- the logistics sector
- **the military sector**
- the Public Administration sector

This line of research covered, in particular, the main aspects related to **Quality Control (including ISO 9000, ISO 14000, Quality Control Chart, Sampling Acceptance Testing, Lean Management, TQM) and Maintenance Management** (asset management, procurement, spare part inventory management, diagnostics, RMA, etc.).
The experience he gained was included in institutional teaching via the publication of various university-course textbooks:

- REVETRIA R. Mosca R. (2007) "Distributed Simulation in Industry" chapter 2 from Dr. Evon M. Abu- Taieh, "Simulation and Modelling: Current Technologies and Application" ISBN 978-159904198-8 Idea Group, Inc., Hershey, PA 17033, USA;
- REVETRIA R., Tonelli F. (2010) Neural Networks and Regressive KPI Metamodels for Business Corporate Management: Methodology and Case Study, Chapter 22, Part VII in Business Performance Measurement and Management: New Context, Themes and Challenges, Edited by Paolo Taticchi, Springer-Verlag, Berlin. ISBN 978-3-642-04799-2;
- Mosca R., Cassettari L., REVETRIA R. (2010) Experimental Error Measurement in Monte Carlo Simulation Chapter 6 in Handbook of Research on Discrete Event Simulation Environments: Technologies and Applications Edited by Evon M. O. Abu-Taieh and Asim Abdel Rahman El Sheikh, Information Science Reference, Hershey, New York, USA, ISBN 978-1-60566-774-4 (hardcover), ISBN 978-1-60566-775-1 (e-book);

<u>Development of innovative methodologies and a new simulation paradigm</u>
In the various fields of engineering application, and in particular in that of port logistics, determining and implementing instruments that can be used to support decision-making in different operating phases are of great interest: from defining the choices of infrastructural scenarios to indicating effective and efficient technical/economic scenarios relevant to the physical and informational aspects of the logistic-production networks. Modelling and simulation of real processes on which the experiments on different scenarios can be carried out is an example of quantitative support. Based on many years of experience applying the simulation to numerous industrial logistic-production projects, Prof. Roberto Revetria developed an original reference model with the ability to adapt to logistic-process modelling better than the traditional approaches currently on the market. The use of modelling and simulation, although generally considered to be an exploratory technique certain to succeed, often clashes with the need to adopt development instruments and commercial software modelling designed for other fields of application such as manufacturing, requiring a greater effort and a degree of approximation not perfectly in line with the real logistic-process needs. He therefore developed an innovative and original approach that was applied and implemented in several modelling tools (i.e. Powersim™, iThink™, Berkeley Madonna™) by which it was possible to reconstruct the transport-operations logic of the terminal logic for both bulk products and for goods in containers and general cargo. The model created has already had numerous practical applications on both national (North Tyrrhenian, Adriatic, etc.) and international (e.g. the Mediterranean and the Indian Ocean, the Atlantic, etc.) scenarios and includes case studies of primary importance. The main characteristic of the original approach proposed is that, in fact, having the ability to conduct modelling in very short times, much shorter than those achieved even using dedicated simulation tools (e.g. Flexsim CT™, Witness™, Siemens PlantSimulation™, etc.). Rapidity in modelling means being able to count on the model results while designing the terminal and not waiting until advanced planning stage to receive feedback, perhaps negative, from the simulation. The approach proposed thus calls for two distinct levels of modelling: one quicker and leaner, able to provide answers to the design questions (basic engineering) within the span of a few hours, and a more detailed one with which the plant solutions can be tested as they are consolidated with a higher degree of confidence (detailed engineering). Some publications:

- Giribone, P., Guizzi, G., Murino, T., Romano, E., REVETRIA R., Testa, A., Applications, WSEAS International Conference on Computer Engineering and. (2012). Combined Simulation for improving Operations in LNG Logistics: a Case Study. Paper presented at the Proceeding of 6th WSEAS International Conference on Computer Engineering and Applications, Cambridge, MA, USA.
- Roberto REVETRIA, Alessandro, Testa, Lucia, Cassettari, Winter Simulation Conference, WSC. (2011). A generalized simulation framework to manage logistics systems: A case study in waste management and environmental protection. Paper presented at the Proceedings - Winter Simulation Conference, Phoenix, AZ, USA.
- REVETRIA R., Testa, A., Mosca, R., & Bertolotto, A. (2011). A flexible modeling approach for supporting rapid business simulations, Frontiers in Artificial Intelligence and Applications 231, pp. 267-281 doi:10.3233/978-1-60750-831-1-267

- REVETRIA R.,7th International Conference on Applied Mathematics, Simulation, Modelling. (2013). Using Systems Dynamics Formalism as Base for an Innovative Hybrid Modeling Approach: Methodology and Case Study. Paper presented at the RECENT ADVANCES in MATHEMATICS, Cambridge, MA, USA.
- R. REVETRIA, A., TESTA, L., CASSETARI, G., GUIZZI, E., ROMANO, M., GALLO, Applications, 6th WSEAS International Conference on Computer Engineering and. (2012). Improving Drilling Operations Management Using Combined Simulation. Paper presented at the Applied Mathematics in Electrical and Computer Engineering, Cambridge MA, USA.

This innovative paradigm was integrated in the institutional teaching and was published in numerous peer-reviewed international scientific articles and in a university textbook: "*Different approaches for studying interruptible industrial processes: Application of two different simulation techniques*" Handbook of research on computational simulation and modeling in engineering doi:10.4018/978-1-4666-8823-0.ch002.

Safety of industrial plants and structures

The issue of safety was developed along numerous pathways, especially from the structural perspective for nuclear applications where innovative plans and structural solutions were studied and developed for Generation IV reactors. In the area of protecting industrial buildings and civil works, specific multiphysics simulation models, strongly integrated with the structural aspects, were developed (e.g. thermal effects on structures), as well as plant aspects (e.g. FTA/ETA models to assess accident scenarios, fall-out models, etc.) and cognitive aspects (e.g. personnel behaviour model in case of evacuation in complex accident scenarios: tunnels, confined spaces, chemical plants, refineries, ships, etc.). New technologies were integrated and evaluated during the research, such as for example: augmented reality eyewear to assess the risk and the structural integrity in industrial buildings, support systems to identify obstacles along handling-system runways, real-time simulation models to estimate the evolution of accident scenarios etc. Advanced statistical models, statistical analysis of the experimental data, Bayesian analysis, prototyping and experimental campaigns were developed and employed within the scope of this research. Some publications:

- Damiani, L., REVETRIA R. (2015). New steam generation system for lead-cooled fast reactors, based on steam re-circulation through ejector. Applied Energy, 137, 292-300. doi:10.1016.
- Damiani, L., Prato, A. P., REVETRIA R. (2014). Innovative steam generation system for the secondary loop of "ALFRED" lead-cooled fast reactor demonstrator. Applied Energy, 121, 207-218. doi:10.1016.
- Damiani, L., Giribone, P., REVETRIA R., Pini Prato, A. (2015). A passive decay heat removal system for the lead cooled fast reactor demonstrator "alfred". Progress in Nuclear Energy, 83, 294-304. doi:10.1016.
- Damiani, L., Giribone, P., Mzoughi, K., REVETRIA R. (2017). A hybrid simulation model for hospital complex plants risk evaluation. Engineering Letters, 25(2), ISSN: 1816-0948 (online version); 1816-093X (print version), pp. 214-221.
- REVETRIA R., Briano E. (2008). A Study of Crowd Behavior in Emergency Tunnel Procedures. INTERNATIONAL JOURNAL OF MATHEMATICS AND COMPUTERS IN SIMULATION, 2, 349-358.
- REVETRIA R., Bruzzone A. G. (2002). Reliability Analysis by Using Simulation for Complex Automated Plants. SIMULATION SERIES, 34, 115-119.
- Damiani, L., Giribone, P., REVETRIA R., Testa, A. (2014). An innovative model for supporting FMEA/FMECA analysis on complex coal fired power plants. Paper presented at the Proceedings of the IASTED International Conference on Modelling, Identification and Control, 99-106. doi:10.2316
- Briano, E., Caballini, C., Mosca, R., R. REVETRIA, Testa, A., Modelling, Identification, and Control. (2010). Managing a Motorway Tunnel Evacuation through 2-D/3-D Simulation Models. Paper presented at the Proceedings of Modelling, Identification, and Control 2010.
- Damiani, L., Revetria, R., Volpe, A. (2016). Augmented reality and simulation over distributed platforms to support workers C3 - Proceedings - Winter Simulation Conference. Paper presented at the Winter Simulation Conference, WSC 2015.
- GIRIBONE, P., R., MELIOLI, REVETRIA R., SCI. (2004). Continuous simulation models for estimate gasoline cloud behavior: a case study. Paper presented at the SCI 2004.

Specific teaching experience (Engineering, Industrial Production and Logistics)

Over the years, Prof. Roberto Revetria has held numerous institutional teaching titles, in particular:

- INDUSTRIAL LOGISTICS (CODE 90468) at the at the Genoa Campus 6 Credit Points, new activation a.y. 2017-2018 (Subject taught in English)

- SUPPLY CHAIN RESILIENCY (CODE: 90471) at the Genoa Campus 6 CFU, new activation a.y. 2017-2018 (Subject taught in English)
- TECHNOLOGIES FOR GOODS SAFETY AND SECURITY (CODE: 90470) at the at the Genoa Campus 6 Credit Points, new activation a.y. 2017-2018 (Subject taught in English)
- MECHANICAL SYSTEMS 1 (Degree Course) at the University of La Spezia 6 CFU (Italian Credit Points)
- INDUSTRIAL PLANTS 1 at the Genoa Campus 6 Credit Points
- MAINTENANCE MANAGEMENT at the Savona Campus 6 Credit Points
- TECHNICAL ECONOMIC FUNDAMENTALS OF MECHANICAL SYSTEMS at the La Spezia University Campus 12 Credit Points
- INDUSTRIAL PLANTS AND PROJECT FINANCING at the Genoa campus 6 Credit Points
- **MAINTENANCE AND SAFETY OF INDUSTRIAL PLANTS (CODE: 90558) at the Savona Campus 6 Credit Points**
- **PRINCIPLES OF INDUSTRIAL SAFETY ENGINEERING (CODE: 90455) at the Genoa Campus 6 Credit Points (Subject** taught in English)
- **PROJECT MANAGEMENT FOR ENERGY PRODUCTION (CODE: 86666) at the Savona Campus 6 Credit Points (Subject taught in English)**
- **SYSTEMS QUALITY (CODE: 56575) at the Genoa Campus 6 Credit Points**
- **QUALITY AND SAFETY (CODE: 66257) at the Genoa Campus 6 Credit Points**
- **PLANT SAFETY (CODE: 72518) at the Genoa Campus 6 Credit Points**

The teaching experience also particularly focused on application aspects associated with manufacturing processes and systems, as well as on the complete design of industrial installations

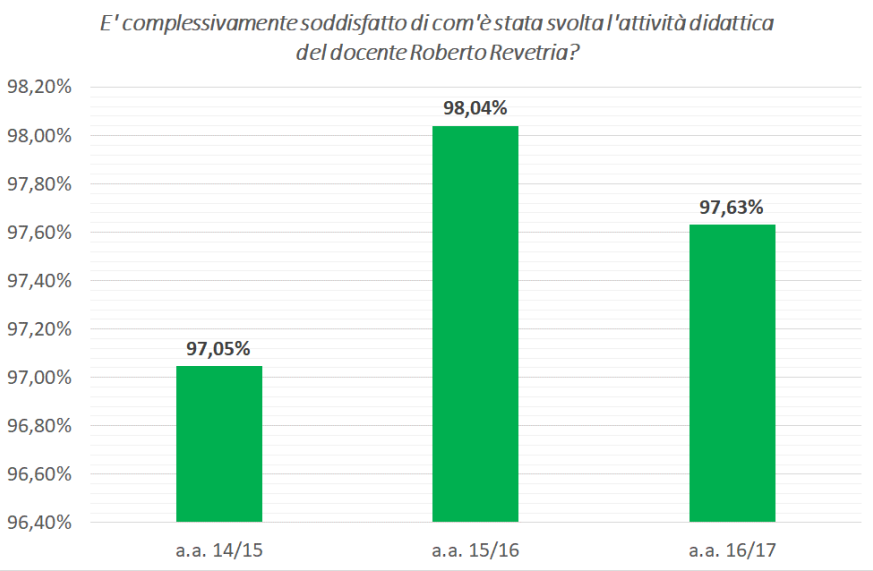
In this context, we can distinguish among the following main areas of activity: analysis and design of industrial installations (structural mechanics, mechanical design, civil works, general facility services), including feasibility studies, the choice of the location and the environmental impact assessment, the economic assessment of initiative risks (risk management), plant project management, analysis and design of industrial processes, production technologies, power systems and general plant services, in the light of innovation, automation, sustainability, energy optimisation, aspects including methods of technical-economic optimisation and the analysis and assessment of reliability and availability; ergonomic and safety design of production systems; management systems for the production of goods and services, including scheduling, managing and monitoring production, the design and management of the production information systems, quality, safety, energy and environmental management, technical and regulatory compliance management; design, management and life-cycle maintenance of products and production facilities also with the logic of facility management and global service; design and integrated management of logistic systems and of logistic-production-distribution chain of goods and services (supply chain management), including the internal and external storage and transportation of materials, traceability, procurement, distribution and post-sales networks, reverse logistics; automation of production systems, including the analysis of economic convenience of integrated and flexible systems and industrial instrumentation for automatic process control.

His more than 15 years teaching the above topics applied to the industrial sector has allowed him to develop a strong application-oriented and integrated approach that enables students to tackle the problems using a plurality of tools and to gain appreciation for the immediate and practical usefulness including through the exercises proposed, which have become an integral part of the course and have been made accessible through the creation of a virtual laboratory (http://virtuallab.dime.unige.it/virtuallab/) accessible to students also by using mobile devices. *Prof* Roberto Revetria personally supervised the selection and development of the teaching materials, providing the syllabus for his courses and the supporting materials for his lesson (slides), and has developed certain educational software (TARAS) which are commonly used in his courses. All the courses have been created with particular attention and reference to the needs of the industrial base and with an ongoing relationship with the leading companies in the field.

<u>Testing methods and final exam</u>
In the courses, during the lessons, assignments, i.e. exercises are proposed which the student must perform autonomously with the aid of the virtuallab, i.e. accessing the remote server on which the all the calculation software packages needed to perform the exercises are pre-installed, with access to all University Library resources. In general, the number of assignments varies from 3 to 5 per course, based on the class level. Each assignment must be presented as a project on the examination date. During the lessons, however, it is possible to discuss results and exchange views with the teacher. Classroom meetings are also organized with companies that illustrate their operational and productive conditions and the problems they encounter in their daily activities. At the end, students are asked to write a report analysing the problems presented by the company in relation to the expertise they developed in the course; this report

will later be assessed as part of the final exam. These meetings are also sometimes organized within the companies themselves and, for the students, they are an opportunity to present themselves as candidates for possible internship. At the end of the course, the exams will consist of a 4-hour written design test followed over the next few days by a battery of multiple-choice tests, lasting 1 hour, on all subjects covered in the course, as well as by oral discussion on the content of the test design and the evaluation of assignments and the reports produced. The final vote is thus a weighted average of all these contributions to which a small "bonus", calculated based on class attendance, is added.
The “virtual lab” designed and developed by Professor Roberto Revetria is based on Windows 2008 Server and allows the teacher to access and follow, even remotely, each of 150+ students who register every year as individual users, being able to communicate with them in real time, access exercise files and supervise the preparation of the reports.

Teaching evaluation results (Official QA-Committee Data - Student Questionnaires)
The teaching evaluation is entrusted to the students who fill out a Quality Assurance questionnaire developed by ANVUR [Italian National Agency for the Evaluation of the University and Research Systems], the results of which are then anonymised and presented in summary format to the teacher. The average percent values of the satisfaction level for the teacher are presented below with reference to the academic years for which on-line data are available.



[Are you generally satisfied with the teaching of Professor Roberto Revetria?]

Teaching experience (in other sectors)

He has also specific teaching experience in the field of Structural Mechanics and Industrial Plants was gained for the most part within the institutional courses Prof. Roberto Revetria held at the La Spezia campus in his Bachelor Class in Mechanical Engineering (L9- bachelor), the Savona Campus in his Bachelor Class in Industrial and Managerial Engineering (L9- bachelor) and in the Genoa campus in his Graduate Classes in Safety Engineering for Transport, Logistics and Production (LM26- master), his Master’s Degree Classes in Mechanical Engineering Design and Production (LM33- master).
The two main areas of application were, on one hand, the design and testing of mechanical industrial plants, steel structures and industrial civil works (Course 72552) and, on the other, the safety implications arising from the structure collapse mechanisms (Courses 90455, 72518 and 90558). See individual course details for further information.

Experience as a thesis advisor (Bachelor, Master, Doctorate) or tutor of university students.
Prof. Eng. Roberto Revetria habitually acts as advisor for numerous theses both on the three-year (Bachelor) level, and on the Specialist Degree (Master) level and for Doctorate (PhD) courses. Almost all graduate theses are carried out in close collaboration with both the national and international industrial base. *Prof.* Revetria also habitually covers the position of thesis advisor for foreign universities and participates in meetings and doctoral panels for prestigious foreign universities.

His workload as thesis advisor amounts to an average of more than 10 theses for each academic year to which approximately 30 theses must be added as advisor for the Technical University of Sofia and numerous Universities of the CSI (Turkmenistan, Uzbekistan, Kyrgyzstan, Kazakhstan).

International Journal with double blind review

[1]. A.G.Bruzzone, R.Mosca, R. REVETRIA, E.Bocca, E.Briano. (2005). Agent Directed HLA Simulation for Complex Supply Chain Modeling. *SIMULATION, 81*, 647-655.

[2]. Arata, Giacomo, Frascheri, Silvana, Roberto REVETRIA, Testa, Alessandro, (2012). *Evaluating Different Scenario in Maritime Coal Supply Chain Using Simulation.* 11th SoMeT_12, Frontiers in Artificial Intelligence and Applications. Volume 246: New Trends in Software Methodologies, Tools and Techniques.

[3]. Bottarelli, M., R. REVETRIA, Taticchi, P., Tonelli, F. (2008). An Agent Based Tool to Support Tactical Dialogues in Industrial Enterprise Networks: model and experimental campaign. *WSEAS TRANSACTIONS ON BUSINESS AND ECONOMICS, 8*, 422-438.

[4]. Briano, E., Caballini, C., Giribone, P., REVETRIA R. (2010). Resiliency and vulnerability in short life cycle products' supply chains: a system dynamics model. *WSEAS TRANSACTIONS ON SYSTEMS, 9*, 328-337.

[5]. Briano, E., Caballini, C., Giribone, P., REVETRIA R. (2010). Two methodologies to support gas turbine power plant availabilty estimation: design of experiment and Montecarlo simulation. *WSEAS TRANSACTIONS ON SYSTEMS, 9*, 937-947.

[6]. Briano, E., Caballini, C., Mosca, R., REVETRIA R. (2010). Using logistic redesigner (Lo.R.D.) software for designing and simulating a steel supply chain. *WSEAS TRANSACTIONS ON SYSTEMS, 9*, 125-135.

[7]. Briano, E., Caballini, C., R.Mosca, REVETRIA R.,Testa, A. (2010). Guidelines and perspectives to enhance Italian port competitiveness. *WSEAS TRANSACTIONS ON SYSTEMS, 9*, 948-958.

[8]. Bruzzone, A. G., R. REVETRIA, Brandolini, M., Massei, M., Simeoni, S. (2004). Models for the Introduction of Mobile Technologies in External Logistics. *SIMULATION SERIES, 36*, 72-80.

[9]. BRUZZONE, A., R., MOSCA, A., ORSONI, REVETRIA R. (2001). Forecasts Modelling in Industrial Applications Based on AI Techniques. *CASYS: INTERNATIONAL JOURNAL OF COMPUTING ANTICIPATORY SYSTEMS*, 245-258.

[10]. Caballini, C., Puliafito, P. P., REVETRIA R., Tonelli, F. (2008). Simulation Based Design for a Railway Logistics Re-Engineering Project. *INTERNATIONAL JOURNAL OF MATHEMATICS AND COMPUTERS IN SIMULATION, 2*, 195-205.

[11]. Cassettari Lucia, Mosca Roberto, REVETRIA Roberto, Rolando Fabio. (2013). Effectiveness and limits of response surface methodology in application to discrete and stochastic simulation of manufacturing plants. *APPLIED MATHEMATICAL SCIENCES*, 4137-4172.

[12]. Cassettari, L., Mosca, R., R. REVETRIA. (2012). Monte Carlo Simulation Models Evolving in Replicated Runs: A Methodology to Choose the Optimal Experimental Sample Size. *MATHEMATICAL PROBLEMS IN ENGINEERING, 2012*, 1-17.

[13]. Chiocca, D., Guizzi, G., Murino, T., Revetria, R., & Romano, E. (2012). A methodology for supporting lean healthcare, Studies in Computational Intelligence 431, pp. 93-99 doi:10.1007/978-3-642-30732-4-12

[14]. Damiani, L., Dellacha, J., Prato, A. Pini, R. REVETRIA. (2014). Simulation model of a nodes for smart grid applications, equipped with photovoltaic panel, energy storage and electric vehicle. Journal of Technology Innovations in Renewable Energy, 2014, 3, 199-213.

[15]. Damiani, L., Giribone, P., Mzoughi, K., Revetria, R. (2017). A hybrid simulation model for hospital complex plants risk evaluation. *Engineering Letters, 25*(2), 214-221.

[16]. DamianiL., P., Prato A., REVETRIA R. (2014). Innovative steam generation system for the secondary loop of "ALFRED" lead-cooled fast reactor demonstrator. *APPLIED ENERGY, 121*, 207-218.

[17]. De Maria, F., Briano C., Brandolini M., Briano E., REVETRIA R. (2010). Simulation models for back-office retail store management integration in ERP. *WSEAS TRANSACTIONS ON SYSTEMS, 9*, 396-408.

[18]. E. BRIANO, C. CABALLINI, P. GIRIBONE, R. REVETRIA. (2010). Resiliency and Vulnerability in Short Life Cycle Products Supply Chains: a System Dynamics Model. *WSEAS TRANSACTIONS ON SYSTEMS, 9 issue 4*, 327-337.

[19]. E. BRIANO, C. CABALLINI, P., Giribone, R. REVETRIA (2010). Objectives and perspectives for improving resiliency in Supply Chains. *WSEAS TRANSACTIONS ON SYSTEMS, 9 issue 2*, 136-145.

[20]. E. Briano, C. Caballini, R. Mosca, R. REVETRIA, A. Testa. (2010). Study of an emergency situation using 2D and 3D simulation models. *WSEAS TRANSACTIONS ON SYSTEMS, 9*, 338-347.

[21]. Gallo M., REVETRIA R., Romano E. (2012). A pull management model for a production cell under variable demand conditions. *INTERNATIONAL JOURNAL OF MATHEMATICAL MODELS AND METHODS IN APPLIED SCIENCES, 6*, 519-526.

[22]. G. Capitta, L.Damiani, S. Laudani, E. Lertora, C. Mandolfino, E. Morra, and R. REVETRIA, "Structural and Operational Design of an Innovative Airship Drone for Natural Gas Transport over Long Distances," Engineering Letters, vol. 25, no.3, pp247-254, 2017 ISSN: 1816-0948 (online version); 1816-093X (print version).

[23]. Giribone P., REVETRIA R., Schenone M., Oliva, F. (2007). Data Driven Simulation in the Health and Hospital Field: a Model for the "G.Gaslini" Clinical Pathology Laboratory Workout. *INTERNATIONAL JOURNAL OF SYSTEMS APPLICATIONS, ENGINEERING DEVELOPMENT*, 112-119.

[24]. Giribone P., REVETRIA R., Schenone,M., Oliva F., Nikolova E., Nikolaeva P., Chavdarova G. (2008). Tools and Techniques for Supporting Reverse Logistics Optimization: Methodology, Case Study and Project Proposal. *INTERNATIONAL JOURNAL OF MATHEMATICS AND COMPUTERS IN SIMULATION, 2*, 125-133.

[25]. Giribone, P., Revetria, R., Antonetti, M., & Tabolacci, R. (2000). Use of artificial neural networks as support for energy saving procedures in telecommunications. INTELEC, International Telecommunications Energy, 159-162.

[26]. L. Damiani, R. REVETRIA. (2014). Numerical Exergetic Analysis of Different Biomass and Fossil Fuels Gasification. *INTERNATIONAL JOURNAL OF RENEWABLE ENERGY BIOFUELS, 2014*, 1-18.

[27]. L. Damiani, R. REVETRIA. (2015). New steam generation system for lead-cooled fast reactors, based on steam re-circulation through ejector. *APPLIED ENERGY, 137*, 292-300.

[28]. L., Cassettari, R., Mosca, R. REVETRIA. (2012). Sizing of a 3,000,000t Bulk Cargo Port through Discrete and Stochastic Simulation Integrated with Response Surface Methodology Techniques. *INTERNATIONAL JOURNAL OF SYSTEMS APPLICATIONS, ENGINEERING DEVELOPMENT, 6*, 87-97.

[29]. Lorenzo Damiani, Pietro Giribone, Roberto REVETRIA, Alessandro Pini Prato. (2015). A passive decay heat removal system for the lead cooled fast reactor demonstrator "Alfred". *PROGRESS IN NUCLEAR ENERGY, 83*, 294-304.

[30]. Lucia Cassettari, Simona Cipollina, Pietro Giribone, Roberto Mosca, Roberto REVETRIA. (2008). Theoretical development and applications of the MSPE methodology in discrete and stochastic simulation models evolving in replicated runs. *JOURNAL OF ENGINEERING, COMPUTING, AND ARCHITECTURE, 2*, 1-25.

[31]. M., CAGETTI, L., CASSETTARI, R., MOSCA, F., OLIVA, R. REVETRIA. (2006). Discrete Event Simulation Applied to a reengineering problem in a railway context. *SIMULATION SERIES, 38*, 171-176.

[32]. MOSCA M., TONELLI F., REVETRIA R., TATICCHI P. (2010). STRATEGIC BUSINESS PROCESS INSOURCING: INSIGHTS OF AN ACTION RESEARCH IN THE RAILWAY SECTOR. *WSEAS TRANSACTIONS ON BUSINESS AND ECONOMICS, 7*, 136-148.

[33]. MOSCA R., REVETRIA R., BRUZZONE A.G., BOCCA E., BRIANO E. (2005). Agent Directed HLA Simulation for Complex Supply Chain Modeling. *SIMULATION, 81*, 647-655.

[34]. N.P. BIANCHI, S. EVANS, REVETRIA R., TONELLI, F. (2009). Influencing Factors of Successful Transitions towards Product-Service Systems: a Simulation Approach. *INTERNATIONAL JOURNAL OF MATHEMATICS AND COMPUTERS IN SIMULATION, 3*, 30-43.

[35]. Paolucci M., REVETRIA R., Tonelli F. (2008). An Agent-based System for Sales and Operations Planning in Manufacturing Supply Chains. *WSEAS TRANSACTIONS ON BUSINESS AND ECONOMICS, 5*, 96-105.

[36]. R. REVETRIA, A.G, BRUZZONE, R, MOSCA, S, RAPALLO. (2000). Risk Analysis in Harbour Environments Using Simulation. *SAFETY SCIENCE, 35*.

[37]. R. REVETRIA, F. TONELLI, C. FORGIA. (2008). Using Nested Simulation for Evaluating Next Period Workload Anticipation Capability of a Control System. *CASYS: INTERNATIONAL JOURNAL OF COMPUTING ANTICIPATORY SYSTEMS*, 261-272.

[38]. R. REVETRIA, G. Guizzi, P. Giribone. (2015). Renewable energy sources integrated with electric power supply in manufacturing companies: A management model. *INTERNATIONAL JOURNAL OF POWER ENERGY SYSTEMS, 35*, 161-166.

[39]. R. REVETRIA, P. GIRIBONE, F. OLIVA, A. CATANIA. (2007). Models For Supporting Sea Transportation Evolution: A Case Study For An International Harbor System. *WSEAS TRANSACTIONS ON SYSTEMS, 6*, 668-677.

[40]. R. REVETRIA, R. MOSCA, M. SCHENONE. (2005). Improve Supply Chain Management Using Neural Networks And Regressive Kpi Relationship Metamodels. *CASYS: INTERNATIONAL JOURNAL OF COMPUTING ANTICIPATORY SYSTEMS, 19*, 70-84.

[41]. R. REVETRIA, R. MOSCA, A. BRUZZONE, E. BOCCA, E. BRIANO. (2005). Agent Directed HLA Simulation for Complex Supply Chain Modeling. *SIMULATION, 81*, 647-655.

[42]. R. REVETRIA. (2014). An Anticipatory Control System Based on On-Line Real-Time Simulation for Supporting Rescheduling of Complex Industrial Plants with High Automation System. *CASYS: INTERNATIONAL JOURNAL OF COMPUTING ANTICIPATORY SYSTEMS*, 211-222.

[43]. REVETRIA R., BRANDOLINI, M., BRIANO, C., BRIANO, E. (2008). VV&A of Complex Modeling and Simulation Systems: Methodologies and Case Studies. *INTERNATIONAL JOURNAL OF MATHEMATICS AND COMPUTERS IN SIMULATION, 2*, 338-348.

[44]. REVETRIA R., Briano E. (2008). A Study Of Crowd Behavior In Emergency Tunnel Procedures. *INTERNATIONAL JOURNAL OF MATHEMATICS AND COMPUTERS IN SIMULATION, 2*, 349-358.

[45]. REVETRIA R., Bruzzone A. G. (2002). Reliability Analysis by Using Simulation for Complex Automated Plants. *SIMULATION SERIES, 34*, 115-119.

[46]. REVETRIA R., Bruzzone, A. G. (2003). Advances in Supply Chain Management: An Agent Based Approach for Supporting Distributed Optimization. *SIMULATION SERIES, 35*, 497-502.

[47]. REVETRIA R., Bruzzone, A. G. (2003). VV&A for Innovative Concept Design in New Vessels Simulation and Virtual Prototypes. *SIMULATION SERIES, 35*, 748-754.

[48]. REVETRIA R., Bruzzone, A. G., Mosca, R., Orsoni, A. (2001). Forecasts Modelling in Industrial Applications Based on AI Techniques. *CASYS: INTERNATIONAL JOURNAL OF COMPUTING ANTICIPATORY SYSTEMS, 11*, 245-258.

[49]. REVETRIA R., CABALLINI C. (2008). A System Dynamics Model For The Simulation of a Non Multi Echelon Supply Chain: Analysis and Optimization Utilizing The Berkeley Madonna Software. *INTERNATIONAL JOURNAL OF MATHEMATICAL MODELS AND METHODS IN APPLIED SCIENCES, 2*, 503-512.

[50]. REVETRIA R., Caballini, C., Briano, E., Mosca, M. (2009). A System Dynamics Decision Cockpit For A Container Terminal: The Case Of Voltri Terminal Europe. *INTERNATIONAL JOURNAL OF MATHEMATICS AND COMPUTERS IN SIMULATION, 3*, 55-64.

[51]. REVETRIA R., Orsoni, A., Bruzzone, A. G. (2003). Framework Development for Web-Based Simulation Applied to Supply Chain Management. *INTERNATIONAL JOURNAL OF SIMULATION: SYSTEMS, SCIENCE TECHNOLOGY, 4*, 1-6.

[52]. REVETRIA R., Tonelli F. (2002). Using Applet-Based Application to Improve Practices in Environmental Production Monitoring. *SIMULATION SERIES, 34*, 13-16.

[53]. REVETRIA R., Tonelli F., Mosca R., Pozzi Cotto, S (2002). Manufacturing management Training Through Process-oriented Simulation Tool. *SIMULATION SERIES, 34*, 58-64.

[54]. Revetria, R., Catania, A., Cassettari, L., Guizzi, G., Romano, E., Murino, T., Improta G., Fujita, H. (2012). Improving healthcare using cognitive computing based software: An application in emergency situation, Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) 7345 LNAI, pp. 477-490 doi:10.1007/978-3-642-31087-4_50

[55]. Revetria, R., Testa, A., Mosca, R., & Bertolotto, A. (2011). A flexible modeling approach for supporting rapid business simulations, Frontiers in Artificial Intelligence and Applications 231, pp. 267-281 doi:10.3233/978-1-60750-831-1-267

Invited Speech and Plenary Lecture

[56]. Bruzzone A. Carbone A., Revetria R., (1999) "VV&A Techniques in MS Applications", Proceeding of Nato Meeting SG6 ST SBDVP, Rome, January;

[57]. Bruzzone, Mosca R., Revetria R., Viazzo S., Briano C., Brandolini M., Rocca A. (2003) "Training Simulation based on HLA Technology for Logistics Purpose ", Invited Speech MAS2003, Bergeggi, Italy, October 2-4;

[58]. Revetria R. (2003) "NAVI: Learning HLA from an Interactive Exercize", SCSC2003 Invited Lecture, Montreal, Canada, July;

[59]. Revetria R. (2007) “Reflective Simulation for On-Line Staff Scheduling: An Innovative Methodology in Distribution Logistics Industry Application”, Proceedings of 7th WSEAS International Conference on Systems Theory And Scientific Computation (ISTASC'07), Vouliagmeni Beach, Athens, Greece, August 24-26, 2007

[60]. Revetria R. (2008) “Scenario and Risk Management Simulation For Supporting Strategical Operational Management in Process and Manufacturing Industry”, Proceedings of 10th WSEAS International Conference on Automatic Control, Modelling and Simulation (ACMOS '08), Istanbul, Turkey, May 27-29, 2008;

[61]. Revetria R. (2008) “System Dynamics Models for Business Process Optimization: An Application to Supply Chain Managemen”, Invited to 8th WSEAS Int. Conf. on Simulation, Modelling And Optimization (SMO'08), Santander, Cantabria, Spain, September 23-25, 2008;

[62]. Revetria R. (2009) Advances of Anticipation Models for On-Line Control in Steel Industry, 8th WSEAS Int.Conf. on System Science And Simulation In Engineering (ICOSSSE '09). Genova, Italy, October 17-19;

[63]. Revetria R. (2010) Les incubateurs technologiques: case d’étude, valorisation de la reserche scientifique: Mécanisme et Enjeux, Gabés, March 11-12;

[64]. Revetria R. (2010) Technological Incubators: a framework model for supporting new companies settings-up, Valorisation de la reserche scientifique: Mécanisme et Enjeux, Gabés, March 11-12;

[65]. Revetria R. (2011) Innovative Modeling Paradigms for Supporting Transition to Lean Healthcare, 11th WSEAS International Conference on SYSTEMS THEORY AND SCIENTIFIC COMPUTATION (ISTASC '11), Florence, Italy, August 23-25;

[66]. Revetria R. (2012) Plenary Lecture:Create a Self-Modeling DSS in the Cloud: Perspectives, Methodologies and Case Studies, Proceedings of 6th International Conference on Computer Engineering and Applications (CEA 2012), Cambridge MA, USA, January 25th-27th, 2012;

[67]. Revetria R. (2012), Invited Lecture: Combining Different Modeling Approaches for Supporting Hedging in Illiquid Markets: A Case Study in Energy Sector, Energy Risk Management Workshop, November 6th at Swiss Re Center for Global Dialogue, Rüschlikon, Zurich Area, Switzerland.

[68]. Revetria R. (2013) Plenary lecture: Enhancing the role of the University in the Economic Environment: the new Regulation for Activities on Demand, Proceedings of UNAM Fimnal Conference, Millennium Hotel, Amman-Jordan, October 6th, 2013.

[69]. Revetria R. (2013) Plenary Lecture: Using Systems Dynamics Formalism As Base For An Innovative Hybrid Modeling Approach: Methodology And Case Study, proceedings of 7th International Conference on Applied Mathematics, Simulation, Modelling (ASM '13), RECENT ADVANCES in MATHEMATICS, ISBN: 978-1-61804-158-6; ISSN: 2227-4588, Cambridge MA, Usa, January 30th – February 1st

[70]. Revetria R. (2017) Plenary Lecture: Innovative Aspects in the Development of Complex Industry 4.0 Decision Support Systems (DSS): Application Case in Steel Manufacturing Sector, 8th International Conference on Automotive and Transportation Systems (ICAT '17), 8th International Conference on Theoretical and Applied Mechanics (TAM '17), Brasov, Romania, June 27-29, 2017.

[71]. Roberto Revetria (2010) High level architecture (HLA) Principles for distributed simulation in industry: a framework for controlling federations over a WAN 4th WSEAS international conference on Computer engineering and applications (CEA'10), Harvard University, Cambridge, USA, January 27-29, 2010;

International Books (with international double blinded peer review)

[72]. Damiani, L., Giribone, P., Guizzi, G., Revetria, R., Romano, E. (2015). Different approaches for studying interruptible industrial processes: Application of two different simulation techniques. Handbook of research on computational simulation and modeling in engineering (pp. 69-104) doi:10.4018/978-1-4666-8823-0.ch002

[73]. Filippi, S., Giribone, P., R. REVETRIA, Testa, A., World Congress on Engineering and Computer Science, WCECS. (2013). An integrated model for supporting better fishering vessel design by modeling fish schools dynamics ready for HLA. Paper presented at the Lecture Notes in Engineering and Computer Science, San Francisco, CA; United States.

[74]. Mosca R., Cassettari L., Revetria R. (2010) Experimental Error Measurement in Monte Carlo Simulation Chapter 6 in Handbook of Research on Discrete Event Simulation Environments: Technologies and Applications Edited by Evon M. O. Abu-Taieh and Asim Abdel Rahman El Sheikh,Information Science Reference, Hershey, New York, USA, ISBN 978-1-60566-774-4 (hardcover), ISBN 978-1-60566-775-1 (ebook);

[75]. Revetria R. Mosca R. (2007) "Distributed Simulation in Industry" chapter 2 from Dr. Evon M. Abu-Taieh, "Simulation and Modeling: Current Technologies and Application" ISBN 978-159904198-8 Idea Group, Inc., Hershey, PA 17033, USA;

[76]. Revetria R., Tonelli F. (2010) Neural Networks and Regressive KPI Metamodels for Business Corporate Management: Methodology and Case Study, Chapter 22, Part VII in Business Performance Measurement and Management: New Context, Themes and Challenges, Edted by Paolo Taticchi, Springer-Verlag, Berlin. ISBN 978-3-642-04799-2;

International Edited Books

[77]. Fujita H R. Revetria Roberto Revetria (2012) New Trends in Software Methodologies, Tools and Techniques. (2012). In, FRONTIERS IN ARTIFICIAL INTELLIGENCE AND APPLICATIONS (Vol. 246, pp. 1-608): IOS Press Amsterdam.

[78]. Myriam Lazard, Andris Buikis, Yuriy S. Shmaliy, Roberto Revetria, Nikos Mastorakis, Olga Martin, Gabriella Bognar, Siavash H. Sohrab, Daniel N. Riahi, Gilbert-Rainer Gillich (2011) Recent Advances in Applied Biomedical Informatics and Computational Engineering in Systems Applications, Proceedings of the 11th WSEAS International Conference on APPLIED INFORMATICS AND COMMUNICATIONS (AIC '11) Proceedings of the 4th WSEAS International Conference on BIOMEDICAL ELECTRONICS and BIOMEDICAL INFORMATICS (BEBI '11) Proceedings of the International Conference on ENVIRONMENT, ECONOMICS, ENERGY, DEVICES, SYSTEMS, COMMUNICATIONS, COMPUTERS, PURE and APPLIED MATHEMATICS, Florence, Italy August 23-25, 2011, Published by WSEAS Press, August 2011 ISBN: 978-1-61804-028-2.

[79]. Myriam Lazard, Andris Buikis, Yuriy S. Shmaliy, Roberto Revetria, Nikos Mastorakis, Olga Martin, Gabriella Bognar, Siavash H. Sohrab, Daniel N. Riahi, Gilbert-Rainer Gillich (2011) Recent Advances in Signal Processing, Computational Geometry and Systems Theory , Proceedings of the 11th WSEAS International Conference on SIGNAL PROCESSING, COMPUTATIONAL GEOMETRY and ARTIFICIAL VISION (ISCGAV '11) Proceedings of the 11th WSEAS International Conference on SYSTEMS THEORY AND SCIENTIFIC COMPUTATION (ISTASC '11), Florence, Italy August 23-25, 2011 , Published by WSEAS Press, August 2011 ISBN: 978- 1-61804-027-5;

[80]. Myriam Lazard, Andris Buikis, Yuriy S. Shmaliy, Roberto Revetria, Nikos Mastorakis, Olga Martin, Gabriella Bognar, Siavash H. Sohrab, Daniel N. Riahi, Gilbert-Rainer Gillich (2011) Recent Advances in Fluid Mechanics and Heat Mass Transfer, Proceedings of the 9th IASME / WSEAS International Conference on FLUID MECHANICS AERODYNAMICS (FMA '11) Proceedings of the 9th IASME / WSEAS International Conference on HEAT TRANSFER, THERMAL ENGINEERING and ENVIRONMENT (HTE '11), Florence, Italy August 23-25, 2011 , Published by WSEAS Press , August 2011 ISBN: 978-1-61804-026-8;

[81]. Revetria R., Cecchi A., Mladenov V., Zemliak A. (2007) “New Horizons in Education and Educational Technology”, World Scientific and Engineering Society, ISBN 978-960-6766-16-9, ISSN 1790-5117;

[82]. Revetria R., Cecchi A., Schenone M., Mladenov V., Zemliak A. (2007) “System Science and Simulation in Engineering”, World Scientific and Engineering Society, ISBN 978-960-6766-14-5, ISSN 1790-5117;

[83]. Revetria R., Cecchi A., Schenone M., Mladenov V., Zemliak A. (2007) “Challenges in Remote Sensing”, World Scientific and Engineering Society, ISBN 978-960-6766-17-6, ISSN 1790-5117;

[84]. Revetria R., Cecchi A., Schenone M., Mladenov V., Zemliak A. (2007) “Computer Science Challenges” World Scientific and Engineering Society, ISBN 978-960-6766-15-2, ISSN 1790- 5117;

[85]. Revetria R., Misra S., Sztandera L., Iliescu M., Zaharim A., Parsiani H (2008) “Recent Advances on Applied Computer Science”, World Scientific and Engineering Society, ISBN 978-960-474- 028-4, ISSN: 1790-5109;

[86]. Revetria R., Misra S., Sztandera L., Iliescu M., Zaharim A., Parsiani H (2008) “Recent Advances in Education and Educational Technology”, ISBN 978-960-474-029-1, ISSN: 1790-5109;

[87]. Revetria R., Misra S., Sztandera L., Iliescu M., Zaharim A., Parsiani H (2008) “Recent Advances in Systems Science and Simulation in Engineering”, ISBN 978-960-474-027-7, ISSN: 1790-2769;

[88]. Revetria R., Misra S., Sztandera L., Iliescu M., Zaharim A., Parsiani H (2008) “Recent Advances in Electric Power Systems, High Voltages and Electrical Machines”, ISBN 978-960-474-026-0, ISSN: 1790-5117;

[89]. Revetria R., Misra S., Sztandera L., Iliescu M., Zaharim A., Parsiani H (2008) “Recent Advances in Remote Sensing”, ISBN 978-960-474-030-7, ISSN: 1790-2769;

[90]. Roberto Revetria, Valeri Mladenov, Nikos Mastorakis (2009) Recent Advances in Applied Computer Science, Proceedings of the 9th WSEAS International Conference on APPLIED COMPUTER SCIENCE (ACS '09), University of Genova, Genova, Italy October 17-19, 2009 Published by WSEAS Press, October 2009 ISSN: 1790-5109 ISBN: 978-960-474-127-4;

[91]. Roberto Revetria, Valeri Mladenov, Nikos Mastorakis (2009) Recent Advances in Education and Educational Technology, Proceedings of the 8th WSEAS International Conference on EDUCATION and EDUCATIONAL TECHNOLOGY (EDU '09), University of Genova, Genova, Italy October 17-19, 2009, Published by WSEAS Press, October 2009 ISSN: 1790-5109 ISBN: 978-960-474-128-1;

[92]. Roberto Revetria, Valeri Mladenov, Nikos Mastorakis (2009) Recent Advances in System Science and Simulation in Engineering, Proceedings of the 8th WSEAS International Conference on SYSTEM SCIENCE and SIMULATION in ENGINEERING (ICOSSSE '09), University of Genova, Genova, Italy October 17-19, 2009, Published by WSEAS Press, October 2009 ISSN: 1790-276 ISBN: 978-960-474-131-1;

[93]. Roberto Revetria, Valeri Mladenov, Nikos Mastorakis (2009) Recent Advances in Electric Power Systems, High Voltages, Electric Machines, Proceedings of the 9th WSEAS/IASME International Conference on ELECTRIC POWER SYSTEMS, HIGH VOLTAGES, ELECTRIC MACHINES (POWER '09), University of Genova, Genova, Italy October 17-19, 2009, Published by WSEAS Press, October 2009 ISSN: 1790-5117 ISBN: 978-960-474-130-4;

[94]. Roberto Revetria, Valeri Mladenov, Nikos Mastorakis (2009) Recent Advances in Remote Sensing, Published by WSEAS Press, Proceedings of the 5th WSEAS International Conference on REMOTE SENSING (REMOTE '09), University of Genova, Genova, Italy October 17-19, 2009, Published by WSEAS Press, October 2009 ISSN: 1790-2769 ISBN: 978-960-474-129-8;

[95]. Zoran Bojkovic, Janusz Kacprzyk, Nikos Mastorakis, Valeri Mladenov, Roberto Revetria, Lotfi A. Zadeh, Alexander Zemliak (2011) Recent Researches in Artificial Intelligence, Knowledge Engineering and Data Bases, 10th WSEAS International Conference on ARTIFICIAL INTELLIGENCE, KNOWLEDGE ENGINEERING and DATA BASES (AIKED '11), Cambridge, UK February 20-22, 2011, Published by WSEAS Press , February 2011 ISSN: 1792-8117 ISBN: 978- 960-474-273-8;

[96]. Zoran Bojkovic, Janusz Kacprzyk, Nikos Mastorakis, Valeri Mladenov, Roberto Revetria, Lotfi A. Zadeh, Alexander Zemliak (2011) Recent Researches in Energy Environment, 6th IASME / WSEAS International Conference on ENERGY ENVIRONMENT (EE '11), Cambridge, UK February 23-25, 2011, Published by WSEAS Press , February 2011 ISSN: 1792-8230, ISBN: 978-960-474-274-5

[97]. Zoran Bojkovic, Janusz Kacprzyk, Nikos Mastorakis, Valeri Mladenov, Roberto Revetria, Lotfi A. Zadeh, Alexander Zemliak (2011) Recent Researches in Hydrology, Geology and Continuum Mechanics, 6th IASME / WSEAS International Conference on CONTINUUM MECHANICS (CM '11) 6th IASME / WSEAS International Conference on WATER RESOURCES, HYDRAULICS HYDROLOGY (WHH '11) 5th IASME / WSEAS International Conference on GEOLOGY and SEISMOLOGY (GES '11), Cambridge, UK February 23-25, 2011, Published by WSEAS Press , February 2011 ISSN: 1792-8370, ISSN: 1792-8397, ISSN: 1792-8419, ISBN: 978-960-474-275-2;

[98]. Zoran Bojkovic, Janusz Kacprzyk, Nikos Mastorakis, Valeri Mladenov, Roberto Revetria, Lotfi A. Zadeh, Alexander Zemliak (2011) RECENT RESEARCHES in COMMUNICATIONS, AUTOMATION, SIGNAL PROCESSING, NANOTECHNOLOGY, ASTRONOMY and NUCLEAR PHYSICS 10th WSEAS International Conference on ELECTRONICS, HARDWARE, WIRELESS and OPTICAL COMMUNICATIONS (EHAC '11), 10th WSEAS International Conference on SIGNAL PROCESSING, ROBOTICS and AUTOMATION (ISPRA '11), 3rd WSEAS International Conference on NANOTECHNOLOGY (NANOTECHNOLOGY '11), 6th WSEAS International Conference on OPTICS-ASTROPHYSICS- ASTRONOMY (ICOAA '11), 2nd WSEAS International Conference on PLASMA-FUSION-NUCLEAR PHYSICS (IPLAFUN '11), Cambridge, UK February 20-22,2011, Published by WSEAS Press , February 2011 ISSN: 1792-8133, ISSN: 1792-8192, ISSN: 1792-8214, ISSN: 1792-815X, ISSN: 1792-8176, ISBN: 978-960-474-276-9;

[99]. Zoran Bojkovic, Janusz Kacprzyk, Nikos Mastorakis, Valeri Mladenov, Roberto Revetria, Lotfi A. Zadeh, Alexander Zemliak (2011) Recent Researches in Software Engineering, Parallel and Distributed Systems,10th WSEAS International Conference on SOFTWARE ENGINEERING, PARALLEL and DISTRIBUTED SYSTEMS (SEPADS '11) Cambridge, UK February 20-22, 2011, Published by WSEAS Press , February 2011 ISSN: 1792-8095,ISBN: 978-960-474-277-6.

National Books

[100]. Bruzzone A., Mosca R., Revetria R. (2001) "Gestione Integrata di Sistemi Produttivi Interagenti: Metodi Quantitativi Avanzati per la Quick Response" Stampato a Genova, Italia, novembre 2001, ISBN 88-900732-0-9.

[101]. Bruzzone A., Mosca R., Revetria R. (2002) "Gestione della Supply Chain Mediante Federazione di Simulatori Interagenti: Compendium " " Stampato a genova, Italia, novembre 2002, ISBN 88-900732-1-7.

[102]. Revetria R., Tonelli F. , Mosca R., (2008) "Come Migliorare la Gestione della Supply Chain Usando SCOR" from R. Mosca "Teoria, Metodi e Modelli per la Logistica e la Logistica Inversa" Franco Angeli Editore, ISBN 978-88-464-9642-3, pp 367, Milano, Italy;

[103]. Revetria R., Tonelli F. , Mosca R., (2008) "Modelli e Metodi Analitici per la Logistica Diretta ed Inversa" from R. Mosca "Teoria, Metodi e Modelli per la Logistica e la Logistica Inversa" Franco Angeli Editore, ISBN 978-88-464-9642-3, pp 367, Milano, Italy;

National Journals (With Review)

[104]. Giribone P., Revetria R. (1998) "Il Ragionamento Sfumato" InBeton Rivista di Assobeton – Associazione Nazionale Produttori manufatti Cementizi, n. 1 March;

[105]. Revetria R., Giribone P. (2006) Sviluppo Di Una Metodologia Di Simulazione Applicata al Controllo dell'esposizione Finanziaria Per Aziende Impiantistiche, ANIMP, Rivista Nazionale di Impiantistica Italiana;

Proceedings of International Scientific Conferences with double blind review

[106]. A. Guaganano, Perra, F., Dazzi, N., R. REVETRIA, Zaghi, P., MAST. (2007). *Asymmetric Threat : Maritime border control.* Paper presented at the Proceedings of MAST2007.

[107]. A., BRUZZONE, P., GIRIBONE, R. REVETRIA, S., SIMEONI, POMS. (2001). *Potential of Artificial Intelligence Techniques and Simulation in Improving Container Terminal Performances.* Paper presented at the Proceedings of POMS2001, Orlando, Florida (USA).

[108]. A., BRUZZONE, R., MOSCA, F., TONELLI, R. REVETRIA, G., VIGANO', G., DIGLIO, HMS. (2001). *Advanced Issues in Distributed Verification and Validation Process for Supply Chain Management Simulation.* Paper presented at the Proceedings of HMS 2001, Marsiglia (Francia).

[109]. A.G., BRUZZONE, C., BRIANO, GIRIBONE, P., REVETRIA R., AICE-Bocconi, Giornate. (1999). *Strumenti di Supporto per la Pre-Pianificazione Integrata di Impianti Industriali di Servizio.* Paper presented at the Proceedings of Giornate AICE-Bocconi, Milano.

[110]. A.G., BRUZZONE, MOSCA, R., A., ORSONI, REVETRIA R., Conference, Winter Simulation. (2002). *AI-Based Optimization for Fleet Management in Maritime Logistics.* Paper presented at the WINTERSIM2002, San Diego, CA.

[111]. A.G., BRUZZONE, MOSCA, R., REVETRIA R.,Conference, Summer Computer Simulation. (2002). *Web Integrated Logistic Designer and Intelligent Control for Supply Chain Management.* Paper presented at the Proceedings of Summer Computer Simulation Conference 2002, San Diego.

[112]. A.G., BRUZZONE, MOSCA, R., REVETRIA R.,Conference, Winter Simulation. (2001). *YACHTS-Yet Another Cooperative High Level Archicture Training Software.* Paper presented at the Proceedings of WinterSim2001, Washington DC.

[113]. A.G., BRUZZONE, P., GIRIBONE, R. REVETRIA, M., BRANDOLINI, C., BRIANO, MIC'00. (2000). *Modelling Identification as A Decision Support System for Retail Chains.* Paper presented at the Proceedings of MIC 2000, Innsbruck, Austria.

[114]. A.G., BRUZZONE, P., GIRIBONE, REVETRIA R.,FAIM99. (1999). *Design and Management Issues in the Development of New Workshops using Web-Based Simulation and Neural Networks.* Paper presented at the Proceedings of FAIM99, Tilburg (Olanda).

[115]. A.G., BRUZZONE, P., GIRIBONE, REVETRIA R.,WinterSim'00. (2000). *Simulation as Educational Support for Production and Logisics in Industrial Engineering.* Paper presented at the Proceedings of WinterSim 2000, Orlando, Florida.

[116]. A.G.Bruzzone, Giribone, P., R. REVETRIA, Scopinich, A., Danio, R., Conference, MIC. (2001). *Artificial Neural Networks As Support Tool For Automatic Coding System In Re-Engineering Process.* Paper presented at the Proceedings of the MIC2001 Conference.

[117]. A.G.Bruzzone, Giribone, P., REVETRIA R.,SCI. (2002). *Integrating Small Medium Enterprise in a E-Procurement using Java Applet Technology.* Paper presented at the Proceeding of SCI2002.

[118]. A.G.Bruzzone, R. REVETRIA, Briano, C., SCI. (2002). *HLA Education in Supply Chain Management.* Paper presented at the Proceeding of SCI2002.

[119]. A.G.Bruzzone, R. REVETRIA, Briano, E., 22nd IASTED International Conference of Modelling, Identification and Control. (2003). *Design of Experiment and Monte Carlo Simulation as Support for Gas Turbine Powerplant Availability Estimation.* Paper presented at the Proceedings of the 22nd IASTED International Conference of Modelling, Identification and Control.

[120]. A.G.Bruzzone, R. REVETRIA, Merkuriev, Y., Merkurieva, G., Diglio, G., Conference, HMS. (2001). *Advances In HLA Based Education For Supply Chain Management.* Paper presented at the Proceedings of the 2001 HMS Conference, Marseille.

[121]. A.G.Bruzzone, R. REVETRIA, Simeoni, S., Rocca, A., Brandolini, M., HMS. (2003). *HLA Simulation for Operation and Analysis and Component Design of Naval Platforms.* Paper presented at the Proceedings of HMS2003.

[122]. A.G.Bruzzone, R.Mosca, R. REVETRIA, Viazzo, S., Briano, C., Brandolini, M., MAS. (2003). *Training Simulation based on HLA Technology for Logistics Purpose.* Paper presented at the Proceedings of MAS2003, Bergeggi.

[123]. A.G.Bruzzone, REVETRIA R.,ASTC. (2003). *Simulation as Support for Contract Negotiation.* Paper presented at the Proceedings of ASTC2003.

[124]. A.G.Bruzzone, REVETRIA R.,Conference, 12th ITEC. (2001). *Advanced Training System for Distributed Manufacturing.* Paper presented at the Proceedings of the 12th ITEC Conference.

[125]. A.G.Bruzzone, REVETRIA R.,Egypt, 19th International Port Conference Alexandria. (2003). *Web Based Distributed Simulation for Supporting Maritime Terminal Operation.* Paper presented at the Proceedings of the 19th International Port Conference Alexandria Egypt.

[126]. A.Testa, Giribone, P., Orsoni, A., REVETRIA R.,Conference, AI Simulation and Planning in High Autonomy Systems. (2002). *Decision Support for the Logistics of Refuse Collection in a Large Metropolitan Area.* Paper presented at the Proceedings of AI Simulation and Planning in High Autonomy Systems Conference.

[127]. Briano, E., Caballini, C., Mosca, R., R. REVETRIA, Testa, A., Modelling, Identification, and Control. (2010). *Managing a Motorway Tunnel Evacuation through 2-D/3-D Simulation Models.* Paper presented at the Proceedings of Modelling, Identification, and Control 2010.

[128]. Briano, E., Caballini, C., Mosca, R., REVETRIA R.,ICOSSSE'10. (2010). *Using WITNESS simulation software as a validation tool for an industrial plant layout.* Paper presented at the Proceedings of the 9th WSEAS international conference on System science and simulation in engineering, Iwate, Japan.

[129]. Briano, E., Caballini, C., R. REVETRIA, A.Testa, Leo, M. De, F.Belgrano, CASYS, (2009). *Anticipation Models for On-Line Control in Steel Industry: Methodologies and Case Study.* Paper presented at the Ninth International Conference on Computing Anticipatory Systems.

[130]. Briano, E., Mosca, R., R. REVETRIA, Testa, A., Intelligen, 24th International Conference on Industrial Engineering and Other Applications of Applied. (2011). *A simplified human cognitive approach for supporting crowd modeling in tunnel fires emergency simulation.* Paper presented at IEA/AIE 2011, the Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), Syracuse, NY, USA.

[131]. Bruzzone, A. G., Giribone, P., REVETRIA R.,Conference, Proceedings of the Winter Simulation. (1999). *Operative Requirements and Advances for the New Generation Simulators in Multimodal Container Terminals.* Paper presented at the Proceedings of the 1999 Winter Simulation Conference.

[132]. Bruzzone, A. G., Giribone, P., REVETRIA R.,Logistic, MCPL Second Conference on Management and Control of Production and. (2000). *Genetic Algorithms and Web Based Simulation for Facility Design.* Paper presented at the Proceedings of MCPL2000 Second Conference on Management and Control of Production and Logistic.

[133]. Bruzzone, A. G., P.Giribone, REVETRIA R.,99, FAIM. (1999). *Design and Management Issues in the Development of New Workshops using Web-Based Simulation and Neural Networks.* Paper presented at the -.

[134]. BRUZZONE, A., P., GIRIBONE, REVETRIA R., MIC. (2001). *ANN As Support Tool for Automatic Coding System in Re-engineering Process.* Paper presented at the Proceedings of MIC2001, Innsbruck, Austria.

[135]. BRUZZONE, A., R. REVETRIA, A., ORSONI, UKSIM. (2001). *Framework development for Web-Based Simulation Applied to Supply Chain Management.* Paper presented at the Proceedings of UKSIM2001, Cambridge UK.

[136]. BRUZZONE, A., R. REVETRIA, M., GENOVESE, L., ROMBI, SCI. (2001). *Inventory Management by Integrating ERP Systems and Simulation Tools.* Paper presented at the Proceedings of SCI2001, Orlando.

[137]. BRUZZONE, A., R., MOSCA, R. REVETRIA, A., COPPA, ISL, 6th. (2001). *Simulation Application in Distributed Logistics.* Paper presented at the proceedings of ISL2001, Salzsburg, Austria.

[138]. BRUZZONE, A., REVETRIA R., FAIM. (2001). *Web Based Modeling as Support for Industrial Maintenance.* Paper presented at the Proceedings of FAIM2001, Dublin.

[139]. BRUZZONE, A., REVETRIA R., HMS99. (1999). *Artificial Neural Networks as Support for Logistics in Super-Market Chains.* Paper presented at the Proceedings of HMS99, Genova.

[140]. BRUZZONE, A., REVETRIA R., SCI. (2000). *Management in Modelling and Simulation Projects.* Paper presented at the Proceedings of SCI2000, Orlando, FL, USA.

[141]. C, Caballini, GIRIBONE, P., R. REVETRIA, A, Testa, ICOSSSE'10. (2010). *Study and development of ad hoc algorithms for designing waste collection routes: test of capabilities.* Paper presented at the ICOSSSE 2010 Proceedings of the 9th WSEAS international conference on System science and simulation in engineering.

[142]. C., Caballini, P.P., Puliafito, R. REVETRIA, F., Tonelli, Conference on Advances in Applied Mathematics, Systems, Communications and Computers. (2008). *A Generalized Discrete Event Model to Support Railway Freights Logistics: Methodology and Case Study.* Paper presented at the Proceedings of Advances in Applied Mathematics, Systems, Communications and Computers 08.

[143]. Caballini, C., Figini, F., R. REVETRIA, Sanguineti, M., MAS. (2003). *Mobile Agents Driven Simulator for Supporting Distributed Maintenance.* Paper presented at the Proceedings of MAS2003.

[144]. CASSETTARI, L., F, DAGNINO, M, MOSCA, REVETRIA R., (2010). *Analysis of a Urban Route Traffic Flow exploiting the System Dynamic Model.* Paper presented at the International Conference of Computer Engineering and Applications, Cambridge, USA.

[145]. CASSETTARI, L., R, Mosca, R. REVETRIA, A, Testa, Workshop, INFORMS Simulation Society Research. (2011). *Innovative Healthcare Modeling Methodology based on System Dynamics and State Transition Diagrams.* Paper presented at the 2011 INFORMS Simulation Society Research Workshop, Montréal (Quebec), Canada.

[146]. CASSETTARI, L., R, Mosca, R. REVETRIA, F, Rolando,. (2011). *Sizing of a 3,000,000t Bulk Cargo Port through Discrete and Stochastic Simulation Integrated with Response Surface Methodology Techniques.* Paper presented at the '11, ISTASC in Recent Advances in Signal Processing, Computational Geometry and Systems Theory, Firenze.

[147]. CASSETTARI, L., R. REVETRIA, F.OLIVA, A, CATANIA WSC08 (2008). *An integrated model for evaluating self sustainability of bio-energy settlements: Technological, economical and social aspects.* Paper presented at the Proceedings - Winter Simulation Conference.

[148]. D., Chiocca, G., Guizzi, G., Naviglio, A., Iuliano, R. REVETRIA, R., Mosca, (2012). *Scheduling Activity Based on Hybrid Manufacturing Systems.* Paper presented at the '12, CEA in Applied Mathematics in Electrical and Computer Engineering.

[149]. Damiani Lorenzo, Giribone Pietro, REVETRIA Roberto, Testa Alessandro, World Congress on Engineering and Computer. (2014). *An Innovative Model for Supporting Energy-based Cost Reduction in Steel*

Manufacturing Industry Using Online Real-time Simulation. Paper presented at the Proceedings of the World Congress on Engineering and Computer Science 2014 Vol II, San Francisco, USA.

[150]. Damiani, L., Giribone, P., Revetria, R. (2016). *Simulative study of a smart node for domestic applications, equipped with pv panel, energy storage and home automation C3 - Lecture Notes in Engineering and Computer Science.* Paper presented at the 2016 World Congress on Engineering and Computer Science, WCECS 2016.

[151]. Damiani, L., Giribone, P., Mzoughi, K., Revetria, R. (2016). *A hybrid simulation model for evaluating risk related to complex plants In hospitals C3 - Lecture Notes in Engineering and Computer Science.* Paper presented at the 2016 World Congress on Engineering and Computer Science, WCECS 2016.

[152]. Damiani, L., Giribone, P., R. REVETRIA, Testa, A., IASTED International Conference on Modelling, Identification and Control, MIC. (2014). *An innovative model for supporting FMEA/FMECA analysis on complex coal fired power plants.* Paper presented at the Proceedings of the IASTED International Conference on Modelling, Identification and Control, Innsbruck (Austria).

[153]. DAMIANI, L., GIRIBONE, P., R. REVETRIA, TESTA, A., , 17th International conference on Systems. (2013). *A different use for Systems Dynamics formalism in harbor modeling: a case study.* Paper presented at the Recent Advances in Systems Science, Rodi (Grecia).

[154]. Damiani, L., Revetria, R., Volpe, A. (2016). *Augmented reality and simulation over distributed platforms to support workers C3 - Proceedings - Winter Simulation Conference.* Paper presented at the Winter Simulation Conference, WSC 2015.

[155]. Daniela Chiocca, Guido Guizzi, Teresa Murino, Roberto REVETRIA, Elpidio, Romano, 25th International Conference on Industrial, Engineering, Intelligent, Other Applications of Applied. (2012). *A methodology for supporting lean healthcare.* Paper presented at the conference in Studies in Computational Intelligence, Dalian, China.

[156]. E, BRIANO, C, CABALLINI, GIRIBONE, P., REVETRIA R. , Winter Simulation Conference. (2010). *Using a System Dynamics Approach for Designing and Simulation of Short Life-Cycle Products Supply Chain.* Paper presented at the conference the Proceedings of the 2010 Winter Simulation Conference, Baltimore, MD, USA.

[157]. E. Briano, C. Caballini, GIRIBONE P., REVETRIA R., ICOSSSE'10. (2010). *Neural network models for the management of tests in power plants.* Paper presented at the Proceedings of the 9th WSEAS international conference on System science and simulation in engineering.

[158]. E., BRIANO, C., CABALLINI, P., GIRIBONE, REVETRIA R., MIC, IASTED. (2010). *Design and Simulation of a Short Life-Cycle Product Supply Chain: a System Dynamics Approach.* Paper presented at the Proceeding of The 29th IASTED International Conference on Modelling, Identification and Control ~MIC 2010~, Innsbruck, Austria.

[159]. E.Briano, C.Caballini, Mosca, M., R. REVETRIA, (2009). *An Innovative Model for Supporting System Integration and Process Reengineering of a Railway Engine Manufacturing Company Workflow.* Paper presented at the Proceedings of CASYS 2009.

[160]. E.Briano, C.Caballini, R.Mosca, R. REVETRIA, A.Testa, ACMOS'10. (2010). *Proposing a system dynamic approach to assess and improve Italian ports competitiveness.* Paper presented at the Proceedings of the 12th WSEAS international conference on Automatic control, modelling simulation, Catania, Sicily.

[161]. E.Briano, C.Caballini, R.Mosca, R. REVETRIA, A.Testa, CEA'10. (2010). *Using 2D and 3D modeling and simulation for emergency situations management.* Paper presented at the Proceedings of the 4th WSEAS international conference on Computer engineering and applications, Cambridge, USA.

[162]. Enrico Briano, Claudia Caballini, Pietro Giribone, Roberto REVETRIA, 12th WSEAS International Conference on Automatic Control, Modelling and Simulation, ACMOS '10. (2010). *Design of experiment and montecarlo simulation as support for gas turbine power plant availabilty estimation.* Paper presented at the 12th WSEAS International Conference on Automatic Control, Modelling and Simulation, ACMOS '10, Catania, ita.

[163]. Enrico, Briano, Claudia, Caballini, Davide, Modula, R. REVETRIA, Alessandro, Testa, 9th WSEAS International Conference on System Science and Simulation in Engineering, ICOSSSE'10. (2010). *A system dynamics approach for managing the LNG procurement for an offshore platform feeding a power plant.* Paper presented at the International conference on System Science and Simulation in Engineering - Proceedings, Iwate, Japan.

[164]. Enrico, Briano, Claudia, Caballini, REVETRIA R.,8th WSEAS International Conference on System Science and Simulation in Engineering, ICOSSSE '09. (2009). *Literature review about supply chain vulnerability and resiliency.* Paper presented at the Proceedings of the 8th WSEAS International Conference on System Science and Simulation in Engineering, ICOSSSE '09, Genova, ita.

[165]. Enrico, Briano, R. REVETRIA, Testa, Diptem Alessandro, 8th WSEAS International Conference on System Science and Simulation in Engineering, ICOSSSE '09. (2009). *Behaviour models for the evacuation of a*

motorway tunnel. Paper presented at the Proceedings of the 8th WSEAS International Conference on System Science and Simulation in Engineering, ICOSSSE '09, Genova, ita.

[166]. F., TONELLI, E., REVELLO, REVETRIA R.,6th International Industrial Simulation Conference, ISC. (2008). *Evaluating the Impact of The Lean Approach On a Food Processing Line.* Paper presented at the Proceedings of ISC08, Lyon.

[167]. F.Belgrano, Bertolotto, A., Leo, M. De, R. REVETRIA, Testa, A., CASYS. (2009). *Anticipation Models for On-Line Control in Steel Industry: Methodologies and Case Study.* Paper presented at the Proceedings of CASYS 2009.

[168]. Ferri, F., Giribone, P., R. REVETRIA, Testa, A., Modelling, Identification and Simulation. (2011). *Use of System Dynamics for Modelling the Logistic Facilities of an Offshore Supply Base Operated by a Multinational Company.* Paper presented at the Proceedings of Computational Intelligence and Bioinformatics, Pittsburg, USA.

[169]. Filippi, S., Giribone, P., R. REVETRIA, Testa, A., Guizzi, G., Romano, E. (2014). Design Support System of Fishing Vessel Through Simulation Approach. In *Transactions on Engineering Technologies* (pp. 615-629): Springer Netherlands.

[170]. Forgia, C., R. REVETRIA, A.Testa, Engineering, World Congress on Computer Science and Information. (2009). *Applied Simulation to Support Steel Industry Re-Engineering, Planning and Operations: Methodologies and Case Studies.* Paper presented at the -.

[171]. G., Arata, R. REVETRIA, A., Testa, Science and education for sustainable development of economy, nature and society. (2013). *An integrate lean simulation model for supporting hydroelectric and biomass energy production systems: methodology and case study.* Paper presented at the Science and education for sustainable development of economy, nature and society Proceedings, Tambov, Russian Federation.

[172]. G., Arata, S., Frascheri, R. REVETRIA, A., Testa, 11th SoMeT_12, Frontiers in Artificial Intelligence and Applications. (2012). *A Simulation Study for Supporting Maritime Coal Supply Chain Design.* Paper presented at the Volume 246: New Trends in Software Methodologies, Tools and Techniques.

[173]. GIRIBONE, P., BRUZZONE, A.G., REVETRIA R.,Informatics, Applied. (2002). *Genetic Algorithms and Simulation for Aftersales Supply Chain Re-Engineering Process.* Paper presented at the From Proceeding (351) Applied Informatics - 2002, Innsbruck (Austria).

[174]. GIRIBONE, P., F.OLIVA, R. REVETRIA, A.CATANIA, ICOSSE'06. (2006). *International, National and Regional Sea Transportation Evolution: a Simulation Based Approach to Improve Performances of Ligurian Ports.* Paper presented at the WSEAS Multiconference, Tenerife.

[175]. GIRIBONE, P., F.OLIVA, REVETRIA R.,26th IASTED International Conference on Modelling, Identification, and Control MIC'07. (2007). *Risk Management of Dangerous Freight Using Montecarlo Simulation: Project and Operation Sides.* Paper presented at the Mic2007, Innsbruck.

[176]. Giribone, P., Guizzi, G., Murino, T., Romano, E., R. REVETRIA, Testa, A., Applications, WSEAS International Conference on Computer Engineering and. (2012). *Combined Simulation for improving Operations in LNG Logistics: a Case Study.* Paper presented at the Proceeding of 6th WSEAS International Conference on Computer Engineering and Applications, Cambridge, MA, USA.

[177]. Giribone, P., R. REVETRIA, Oliva, F., (2007). *A Stochastic Simulation Model for Representing a Clinical Pathology Laboratory Workout.* Paper presented at the ICOSSSE 2007-.

[178]. GIRIBONE, P., R. REVETRIA, OLIVA, F., SCHENONE, M., ICOSSE. (2007). *A Stochastic Simulation Model for Representing a Clinical Pathology Laboratory Workout.* Paper presented at the ICOSSE 2007, VENEZIA.

[179]. GIRIBONE, P., R. REVETRIA, OLIVA, F., SCHENONE, M., NIKOLOVA, E. NIKOLAEVA, PENEVA, G. CHAVDAROVA, ICOSSSE'07. (2007). *Integrate Clustering and Mathematical Programming for Supporting Reverse Logistics Optimization: Methodology and Case Study.* Paper presented at the ICOSSE 2007, VENEZIA.

[180]. Giribone, P., R. REVETRIA, Testa, A., 7th International Conference on Applied Mthematics Simulation, Modelling. (2013). *Simulation Models for Supporting Hedging in Illiquid Markets.* Paper presented at the Recent Advances in Mathematics, Cambridge, MA, USA.

[181]. Giribone, P., R. REVETRIA, Testa, A., SoMeT ? 12th IEEE International Conference on Intelligent Software Methodologies, Tools and Tec. (2013). *A guideline for choosing the best modeling approach for maritime logistic simulation.* Paper presented at the Intelligent Software Methodologies, Tools and Techniques (SoMeT), Budapest (Hungary).

[182]. Giribone, P., R. REVETRIA, Testa, A., Vernengo, G., Rizzuto, E., Longo, R., . . . 7th International Conference on Applied Mathematics, Simulation, Modelling. (2013). *A Simulation Based Methodology for Supporting CNG Ship Design.* Paper presented at the Recent Advances in Mathematics, Cambridge, MA, USA.

[183]. GIRIBONE, P., R., MELIOLI, REVETRIA R.,SCI. (2004). *Continuos simulation models for estimate gasoline cloud behavior: a case study.* Paper presented at the SCI 2004.

[184]. Guizzi, G., R. REVETRIA, Chiocca, D., Romano, E., Conference, 6th WSEAS European Computing. (2012). *A dynamic Milk Run in WEEE Reverse Logistics.* Paper presented at the ADVANCES in COMPUTER SCIENCE, Prague, Czech Republic.

[185]. Guizzi, G., Romano, E., Santillo, L. C., R. REVETRIA, Testa, A., Cassettari, L. C., Applications, of 6th WSEAS International Conference on Computer Engineering and. (2012). *Advanced Modeling Methodology based on System Dynamics in Healthcare.* Paper presented at the Applied Mathematics in Electrical and Computer Engineering, Cambridge MA, USA.

[186]. GUIZZI, GUIDO, R. REVETRIA, ROMANO, ELPIDIO, 7th International Conference on Applied Mathematics, Simulation, Modelling. (2013). *Port Training using simulation methodology.* Paper presented at the Recent Advances in Mathematics.

[187]. Improta, Giovanni, Triassi, Maria, Guizzi, Guido, Santillo, Liberatina Carmela, R. REVETRIA, Catania, Alessandro, Cassettari, Lucia. (2012). *An Innovative Contribution to Health Technology AssessmentModern Advances in Intelligent Systems and Tools* (Vol. 431).

[188]. L., Cassettari, J.B., Morrison, R., Mosca, A., Orfeo, R. REVETRIA, F., Rolando, (2013). *A System Dynamics study of an Emergency Department impact on the management of hospital?s surgery activity.* Paper presented at the Proceedings of the SIMULTECH 2013.

[189]. L., CASSETTARI, M., GALLO, D.R., MONTELLA, R. REVETRIA, E., ROMANO, A., TESTA, '12, CEA. (2012). *Analysis of demand variability in a kanban cell by Virtual Kanban Strategy.* Paper presented at the Applied Mathematics in Electrical and Computer Engineering.

[190]. L., CASSETTARI, P., GIRIBONE, REVETRIA R.,Multiconference, European Simulation. (2005). *An integrated decision support system for improving ATP performances in SME.* Paper presented at the 2005 European Simulation and Modelling Conference, Porto (P).

[191]. L., CASSETTARI, R., MOSCA, R. REVETRIA, F., TONELLI, 07, ISC'. (2007). *Discrete And Stochastic Simulation and Response Surface Methodology: an Approach to a Time Varying Approach.* Paper presented at the Proceedings of Industrial Simulation Conference 2007, Delft ,The Netherlands.

[192]. Lorenzo, Damiani, Pietro, Giribone, Kais, Mzoughi, REVETRIA R.,World Congress on Engineering and Computer Science, WCECS. (2016). *A hybrid simulation model for evaluating risk related to complex plants In hospitals.* Paper presented at the Lecture Notes in Engineering and Computer Science, usa.

[193]. Lucia, Cassettari, Roberto, Mosca, R. REVETRIA, Flavio, Tonelli, 5th International Industrial Simulation Conference, ISC. (2007). *Discrete and stochastic simulation and response surface methodology: An approach to a varying experimental error.* Paper presented at the 5th International Industrial Simulation Conference 2007, ISC 2007, Delft, nld.

[194]. M., Botarelli, P., Taticchi, R. REVETRIA, F., Tonelli, SYSTEMS, 12th WSEAS International Conference on. (2008). *An Agent Based Tool to Support Tactical Dialogues in Industrial Enterprise Networks.* Paper presented at the Proceedings of WSEAS International Conference on SYSTEMS.

[195]. M., MOSCA, F., TONELLI, R. REVETRIA, P., TATICCHI, ENGINEERING, 8th WSEAS Int.Conf. on SYSTEM SCIENCE and SIMULATION in. (2009). *STRATEGIC OUTSOURCING OF ENGINEERING AND TECHNICAL DOCUMENTATION TO INDIA: AN EXPERIENCE FROM A COMPANY LEADER IN THE RAILWAY SECTOR.* Paper presented at the ICOSSSE'09, Genova.

[196]. M.CAGETTI, CASSETTARI, L., P.GIRIBONE, R. REVETRIA, P.HOREJSÌ, V.VOTAVA, World Multi-Conference on Systemics, Cybernetics and Informatics, WMSCI. (2006). *A Java Based Tool for supporting High Level Architecture Federation execution control over a WAN.* Paper presented at the Proceedings of WMSCI 2006, Orlando, Florida, USA.

[197]. M.Lazard, A.Buikis, Shmaliy, Y. S., R. REVETRIA, N.Mastorakis, Martin, O., . . . Gillich, G. R. (2011). Recent Advances in Applied Biomedical Informatics and Computational Engineering in Systems Applications. In *Recent Advances in Applied Biomedical Informatics and Computational Engineering in Systems Applications* (pp. 3-3).

[198]. M.Lazard, Buikis, A., Shmaliy, Y. S., R. REVETRIA, N.Mastorakis, Martin, O., . . . G.R.Gillich. (2011). Recent Advances in Signal Processing, Computational Geometry and Systems Theory. In *Recent Advances in Signal Processing, Computational Geometry and Systems Theory* (pp. 10-10).

[199]. M.Lazard, Buikis, A., Shmaliy, Y. S., R. REVETRIA, N.Mastorakis, Martin, O., . . . Gillich, G. R. (2011). Recent Advances in Fluid Mechanics and Heat Mass Transfer. In *Recent Advances in Fluid Mechanics and Heat Mass Transfer* (pp. 8-8).

[200]. M.M, CAGETTI, C, FORGIA, GIRIBONE, P., REVETRIA R.,Operations, POMS - College of Service. (2006). *Neural Regressive Metamodels For Supporting Corporate Performance Management In Services Industries.* Paper presented at the Proceedings of 2006 POMS - College of Service Operations, Carmel (USA).

[201]. M.U.Brandolini, Briano, C., C.Caballini, Puliafito, P. P., REVETRIA R.,PTI. (2009). *Modeling And Simulation For Supporting Maritime Port Logistics And Operations: Retrospectives And Perspectives.* Paper presented at the Proceedings of PTI 2009.

[202]. M.U.Brandolini, C.Briano, REVETRIA R.,Modelling, 6th Vienna International Conference on Mathematical. (2009). *A Metamodel For Evaluating New Key Performance Indexes On Top Products Selling In Retail Fashion: Methodology And Case Study.* Paper presented at the Proceedings of 6th Vienna International Conference on Mathematical Modelling.

[203]. Maria, Cagetti Matteo, Lucia, Cassettari, Roberto, Mosca, Francesca, Oliva, REVETRIA R.,Summer Computer Simulation Conference , SCSC. (2006). *Discrete event simulation applied to a reengineering problem in a railway context.* Paper presented at the Summer Computer Simulation Conference 2006, SCSC'06, Part of the 2006 Summer Simulation Multiconference, SummerSim'06, Calgary, AB, can.

[204]. Maria, F. D., Briano, C., Brandolini, M., Briano, E., REVETRIA R.,science, 10th WSEAS international conference on Applied computer and applied computational. (2011). *Market-leader ERPs and cloud computing: a proposed architecture for an efficient and effective synergy.* Paper presented at the Proceedings of the 10th WSEAS international conference on Applied computer and applied computational science, Venezia, Italia.

[205]. MOSCA, R., A., BRUZZONE, REVETRIA R.,MAS. (2001). *Supply Chain Management over the web in Aerospace Industry by using Simulation: WILD.* Paper presented at the Proceedings of Virtuality2001.

[206]. MOSCA, R., A.G, BRUZZONE, A, ORSONI, REVETRIA R.,Simulation Symposium, . Proceedings. 35th Annual. (2002). *Simulation-Based VV&A Methodology for HLA Federations: an Example from the Aerospace Industry.* Paper presented at the Proceedings of 35th Annual Simulation Symposium,IEEE/SCS, San Diego.

[207]. MOSCA, R., A.G, BRUZZONE, R. REVETRIA, A, ORSONI, Conference on AI, Simulation and Planning in High Autonomy Systems. (2002). *System Architecture for Integrated Fleet Management: Advanced Decision Support in the Logistics of Diversified and Geographically Distributed Chemical Processing.* Paper presented at the Proceedings of AIS Simulation and Planning in HIgh Autonomy Systems Conference, Lisbon, Portugal.

[208]. MOSCA, R., A.G, BRUZZONE, R. REVETRIA, F, TONELLI, , Convegno Nazionale. (2002). *Sistemi Integrati di Gestione Avanzata per la Quick Response della Catena di Fornitura.* Paper presented at the Proceedings of XXIX ANIMP, Sorrento, Italy.

[209]. MOSCA, R., A.G, BRUZZONE, REVETRIA R.,Conference, Proceedings of Summer Computer Simulation. (2001). *Web Intgrated Logistics Designer: A HLA Federation Devoted to Supply Chain Management.* Paper presented at the Proceedings of Summer Computer Simulation Conference, Orlando.

[210]. MOSCA, R., A.G, BRUZZONE, REVETRIA R.,Conference, XVIII International Port. (2002). *Cooperation in Maritime Training Process using Virtual Reality Based and HLA Compliant Simulation.* Paper presented at the Proceedings of XVIII International Port Conference, Alexandria Egypt.

[211]. MOSCA, R., R. REVETRIA, A, ORSONI, F, BERTONI, I, 4th International Conference on the Modern Information Technology in the Innovation Process of the. (2002). *Fleet Management System Requirements for the Maritime Logistics of the Chemical Industry.* Paper presented at the Proceedings of the 4th International Conference on the Modern Information Technology in the Innovation Process of the Industrial Enterprises (MITIP2002), Savona, Italy.

[212]. MOSCA, R., R. REVETRIA, BRIANO, SAVASTANO, (2004). *Integrating Wireless Technologies And Data Warehousing For Distributed Imaging Based Support In An Orthodontic Practice.* Paper presented at the Proceedings of BIOMED 2004 lasted2004, Innsbruck, Austria.

[213]. MOSCA, R., R. REVETRIA, L, CASSETTARI, F, OLIVA, UAMI, Convegno nazionale ANIMP OICE. (2007). *Gestione del Rischio derivante Da Trasporto di Merci Peicolose Mediante Simulazione Montecarlo: Aspetti Progettuali ed Operativi.* Paper presented at the Convegno ANIMP, Isola d'Elba.

[214]. MOSCA, R., R. REVETRIA, L, CASSETTARI, F, TONELLI, MITIP. (2007). *The Rsm Approach To Discrete Stochastic Simulation Models of Complex Industrial Plants: Methodological Aspects and Limits Related to a Time-Varing Experimental Error.* Paper presented at the Proceedings of MITIP2007.

[215]. MOSCA, R., R. REVETRIA, M, SCHENONE, PTI. (2005). *Last Mile Logistics in Maritime Terminals: Methodologies, Tools and Techniques for impreoving Performances.* Paper presented at the 21st Int. Port Conf. "Sea Ports: Challenge and Future Prospects, Alexandria Egypt.

[216]. Musaio, Angelo, R. REVETRIA, Azimboyevich, Hojaev Ulugbek, Shuxratovich, Ataniyazov Zarif, 8t, 15th International Conference on Mathematics and Computers in Business and Economics /. (2014). *Land and Water Use Reforms in Rural Uzbekistan and Analysis for the Region Khorezm.* Paper presented at the Recent Advances in Economics, Management and Marketing, Cambridge, MA, USA.

[217]. Musaio, Angelo, R. REVETRIA, Omurbekov, Sardarbek, o, 14th International Conference on Applied Computer Science / 2nd International Conference. (2014). *Providing Science Efficiently in Physics and Computer Science in Kyrgyzstan Remote Schools by using Simulation and Virtual Reality.* Paper presented at the MODERN COMPUTER APPLICATIONS in SCIENCE and EDUCATION, Cambridge, MA, USA.

[218]. Musaio, Angelo, R. REVETRIA, Zharov, Yerzhan, 8t, 15th International Conference on Mathematics and Computers in Business and Economics /. (2014). *The Main Economic Aspects of Completing and Use of Agricultural Machinery in the Conditions of Plant Growing of Kazakhstan.* Paper presented at the Recent Advances in Economics, Management and Marketing, Cambridge, MA, USA.

[219]. Paolucci, M., R. REVETRIA, Tonelli, F., ICOSSSE. (2007). *An Agent-based System for Sales and Operations Planning in Manufacuring Supply Chain.* Paper presented at the -.

[220]. R, Mosca, CASSETTARI, L., R. REVETRIA. (2010). Chapter 6 - Experimental Error Measurement in Monte Carlo Simulation. In *Handbook of Research on Discrete Event Simulation Environments: Technologies and Applications* (pp. 92-142).

[221]. R, MOSCA, R. REVETRIA, TONELLI, F., (2000). *Simulation for resource allocation.* Paper presented at the ASTC Proceedings.

[222]. R, MOSCA, S, POZZI COTTO, R. REVETRIA, TONELLI, F., (2002). *Manufacturing management training process through process-oriented simulation tool.* Paper presented at the ICSEE Proceedings.

[223]. R. Revetria (Ed.), Recent Advances in Economics, Management and Marketing. (2014). In *BUSINESS AND ECONOMICS SERIES* (pp. 1-139): WSEAS.

[224]. R. REVETRIA, A, Testa, CASSETTARI, L., Conference, Winter Simulation. (2011). *A GENERALIZED SIMULATION FRAMEWORK TO MANAGE LOGISTIC SYSTEMS: A CASE STUDY IN WASTE MANAGEMENT AND ENVIRONMENTAL PROTECTION.* Paper presented at the Proceedings of 2011 Winter Simulation Conference, Phoenix, AZ, USA.

[225]. R. REVETRIA, A, Testa, CASSETTARI, L., F, Ferri, S, Frascheri, Plants, XVI Summer School "Francesco Turco" Industrial Mechanical. (2011). *Proposing a System Dynamic approach to evaluate the fitness-for-purpose of the logistic facilities of an offshore supply base operated by a multinational Company.* Paper presented at the Proceedings of XVI Summer School "Francesco Turco" - Industrial Mechanical Plants, Abano Terme (PD), Italy.

[226]. R. REVETRIA, A., TESTA, L., CASSETARI, G., GUIZZI, E., ROMANO, M., GALLO, Applications, 6th WSEAS International Conference on Computer Engineering and. (2012). *Improving Drilling Operations Management Using Combined Simulation.* Paper presented at the Applied Mathematics in Electrical and Computer Engineering, Cambridge MA, USA.

[227]. R. REVETRIA, Alessandro, Testa, Lucia, Cassettari, Winter Simulation Conference, WSC. (2011). *A generalized simulation framework to manage logistics systems: A case study in waste management and environmental protection.* Paper presented at the Proceedings - Winter Simulation Conference, Phoenix, AZ, usa.

[228]. R. REVETRIA, Blomjous, P. E. J. N., Houten, S.P.A. van, (2003). *An HLA Federation for Evaluating Multi-Drop Strategies in Logistics.* Paper presented at the ESS 2003-.

[229]. R. REVETRIA, Briano, E., Education, WBE08 Web Based. (2008). *E-Learning: Analysis Development And Opportunities Of The New Way Of Teaching In Italy.* Paper presented at the WBE08 Web Based Education.

[230]. R. REVETRIA, C.Briano, E.Briano, A.Bruzzone, ESM. (2005). *Models for supporting maritime logistics: a case study for improving terminal planning.* Paper presented at the -.

[231]. R. REVETRIA, Cagetti, M. M., Forgia, C., Taskov, S., MM. (2006). *Arma Neuro-Fuzzy Models For Supporting Spare Parts Inventory Management: A Case Study.* Paper presented at the Proceedings of MM2006.

[232]. R. REVETRIA, CAGETTI, M., SCHENONE, M., FORGIA, C., CATANIA, A., PTI. (2006). *APPLIED MODELING AND SIMULATION FOR SUPPORTING HUMAN RESOURCE TRAINING AND SEA PORT PERFORMANCE IMPROVEMENT.* Paper presented at the PTI 2006 Port training Institute.

[233]. R. REVETRIA, CASSETTARI, L., CAGETTI, M., CIPOLLINA, S., FERRARA, M., PERUCCI, M., . . . Protection, Environmental. (2006). *A simulation based approach for supporting biomass based production systems: methodology and case study.* Paper presented at the -, Dublino (Ireland).

[234]. R. REVETRIA, Catania, A., Cassettari, L., Guizzi, G., Romano, E., Murino, T., . . . Intelligen, 25th International Conference on Industrial Engineering and Other Applications of Applied. (2012). *Improving healthcare using cognitive computing based software: An application in emergency situation.* Paper presented at the Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), Dalian; China.

[235]. R. REVETRIA, Catania, Alessandro, Catania, Barbara, Mazzarello, Bruno Filippo, Proceedings of 11th SoMeT_12, Frontiers in Artificial Intelligence and Applications. (2012). *Digital TV as Monitoring System for Elderly People Health Care.* Paper presented at the Volume 246: New Trends in Software Methodologies, Tools and Techniques.

[236]. R. REVETRIA, F., TONELLI, Winter Simulation Conference, WSC. (2007). *Reflective Simulation For On-line Workload Planning and Control.* Paper presented at the Proceedings of WSC07, WASHINGTON.

[237]. R. REVETRIA, F.Oliva, Taskov, S., Networks, 9th WSEAS Int. Conf. on Neural. (2008). *Artificial Neural Networks for Time Series Forecast: Methodology and Case Study for Supporting Spare Parts Inventory Management.* Paper presented at the Proceedings of 9th WSEAS Int. Conf. on Neural Networks.

[238]. R. REVETRIA, Forgia, C., Spring Conference , Business Industrial Simposium. (2008). *System Dynamics and Regressive Meta-Modeling Applied Methodology for Improving Management Performances in Services Industry: a Case Study in Supply Chain and Highway Maintenance.* Paper presented at the -.

[239]. R. REVETRIA, Forgia, C., Catania, A., Esm. (2006). *Agent Based Vs Nested Simulation For Supporting On-Line Teller Scheduling In Groceries Supermarket Distribution: A Case Study.* Paper presented at the Proceedings of Esm2006.

[240]. R. REVETRIA, Giribone, P., Oliva, F., ICOSSSE. (2007). *Integrate Clustering And Mathematical Programming For Supporting Reverse Logistics Optimization: Methodology And Case Study.* Paper presented at the -.

[241]. R. REVETRIA, Longo, F., Ganapini, A., Meistro, M., ICAMES, ENSO. (2004). *SILLA2.* Paper presented at the Proceedings of ICAMES, ENSO.

[242]. R. REVETRIA, Mirzalieva, Gulnora, Umarkulov, Kodirjon, 8t, 15th International Conference on Mathematics and Computers in Business and Economics /. (2014). *System Dynamics Model for Simulation the Most Effective Elimination of Accidental and Operational Injuries at the Public Transport and Prospect of using IT Innovations (SBA).* Paper presented at the RECENT ADVANCES in ECONOMICS, MANAGEMENT and MARKETING, Cambridge, MA, USA.

[243]. R. REVETRIA, Oliva, F., Multiconference, (2008). *A System Dynamic Model to Support Cold Chain Management in Food Supply Chain.* Paper presented at the - CCM08 WSEAS..

[244]. R. REVETRIA, Oliva, F., Briano, E., (2007). *Modeling And Simulation For Supporting Investigative Inquiries In The Jp And Ps Sector.* Paper presented at the - ICOSSSE..

[245]. R. REVETRIA, Oliva, F., Port, PTI 23th International Port Conference, Technology. (2007). *Advances in Custom EDI Standardization: A Survey.* Paper presented at the Proceedings of PTI2007 23th International Port Conference Port Technology.

[246]. R. REVETRIA, R., MOSCA, M., SCHENONE,, Computer Anticipatory Systems. (2005). *IMPROVE SUPPLY CHAIN MANAGEMENT USING NEURAL NETWORKS AND REGRESSIVE KPI RELATIONSHIP METAMODELS* CASYS

[247]. R. REVETRIA, Schenone, M., SEA. (2005). *Application of Project Management Techniques to a Software for Telecommunication Complex Project.* Paper presented at the Proceedings of SEA2005.

[248]. R. REVETRIA, Testa, Alessandro, Briano, Enrico, Integration", The International Maritime Transport and Logistics Conference "A Vision For Future. (2011). *An INNOVATIVE HYBRID SIMULATION APPROACH FORSUPPORTING MARITIME LOGISTICS.* Paper presented at the Proceedings of International Maritime Transport and Logistics Conference "MARLOG" Ports and Logistics: A Vision for Future Integration, Alexandria-Egypt.

[249]. R. REVETRIA, Testa, Alessandro, Mosca, Roberto, Bertolotto, Alessandro, Leo, Marco De, CASYS'11, Computing Anticipatory Systems. (2011). *An Anticipatory Control Systems Based on On-Line Real-Time Simulation for Supporting Rescheduling of Complex Industrial Plants with High Automation System.* Paper presented at the International Journal of Computing Anticipatory Systems, HEC Management School of the University of Lie?ge, 14, rue Louvrex, B-4000 Lie?ge, Belgium.

[250]. R. REVETRIA, THEORY, 11th WSEAS International Conference on SYSTEMS, COMPUTATION, SCIENTIFIC. (2011). *Innovative Modeling Paradigms for Supporting Transition to Lean Healthcare.* Paper presented at the -, Florence (Italy).

[251]. R. REVETRIA, Tonelli, F., Conferente, Winter Simulation. (2007). *Reflective Simulation For On-Line Workload Planning And Control.* Paper presented at the -.

[252]. R. REVETRIA, TONELLI, F., ICSEE. (2002). *Using Java Applet-Based application to improve practices in environmental production monitoring.* Paper presented at the ICSEE Proceedings.

[253]. R. REVETRIA, Tonelli, F., WMC. (2002). *Web Based Application and Artificial Neural Networks for Life Cycle Assesment in Industry.* Paper presented at the Proceedings of WMC2002.

[254]. R. REVETRIA, TONELLI, F., FORGIA, C., CASYS. (2007). *Using Nested Simulation for Evaluating Next Period Workload Anticipation Capability of a Control System.* Paper presented at the Proceedings of CASYS07, Liege.

[255]. R. REVETRIA, Tucci, M., Conference, Proceedings of the Summer Computer Simulation. (2001). *Different Approaches in Making Simulation Languages Compliant with HLA Specification.* Paper presented at the Proceedings of the Summer Computer Simulation Conference.

[256]. R. REVETRIA, V.Mladenov, N.Mastorakis. (2009). Recent Advances in Applied Computer Science. In *Recent Advances in Applied Computer Science* (pp. 8-8).

[257]. R. REVETRIA, Viazzo, S., Briano, E., Brandolini, M., MAS. (2003). *Virtual Reality Simulation for Material Handling based on Open Source Technology.* Paper presented at the Proceedings of MAS2003.

[258]. R., MOSCA, L., CASSETTARI, R. REVETRIA, G., MAGRO, Conference, Winter Simulation. (2005). *Simulation as Support for production planning in Small Medium Enterprise: A Case Study.* Paper presented at the WSC '05 Proceedings of the 37th conference on Winter simulation, Orlando (FL).

[259]. R., MOSCA, R. REVETRIA, C., FORGIA, Modelling, Identification, Control. (2005). *Top down modeling and montecarlo simulation for financial cost control in complex projects.* Paper presented at the Proceedings of Modelling, Identification Control, Innsbruck, Austria.

[260]. R., MOSCA, R. REVETRIA, L., CASSETTARI, G., MAGRO, Conference, Winter Simulation. (2005). *SIMULATION AS SUPPORT FOR PRODUCTION PLANNING IN SMALL AND MEDIUM ENTERPRISE: A CASE STUDY*.

[261]. R., MOSCA, R. REVETRIA, M., SCHENONE,. (2005). *LAST MILE LOGISTICS IN MARITIME TERMINALS: METHODOLOGIES, TOOLS AND TECHNIQUES FOR IMPROVING PERFORMANCES* Port, PTI, Institute, training.

[262]. R.Iavagnilio, Mummolo, G., Mossa, G., R. REVETRIA, (1999). *Integrating Simulation - Neural Networks Models for Monitoring Environmental Managements Systems in Manufactoring Industry.* Paper presented at the Proceedings of SCSC1999.

[263]. R.Mosca, R. REVETRIA, Tonelli, F., Symposium, Business and Industry Simulation. (1999). *Simulation for Resource Allocation.* Paper presented at the Proceedings of the Business and Industry Simulation Symposium.

[264]. REVETRIA R.,10th WSEAS International Conference on Automatic Control, Modelling and Simulation. (2008). *Scenario And Risk Management Simulation For Supporting Strategical Operational Management in Process and Manufacturing Industry.* Paper presented at the -, Istanbul.

[265]. REVETRIA R.,7th International Conference on Applied Mathematics, Simulation, Modelling. (2013). *Using Systems Dynamics Formalism as Base for an Innovative Hybrid Modeling Approach: Methodology and Case Study.* Paper presented at the RECENT ADVANCES in MATHEMATICS, Cambridge, MA, USA.

[266]. REVETRIA R.,8th WSEAS Int. Conf. on Simulation, Modelling And Optimization. (2008). *System Dynamics Models for Business Process Optimization: An Application to Supply Chain Managemen.* Paper presented at the -, Santander (Spain).

[267]. REVETRIA R.,AMERICAN-MATH'12/CEA'12. (2012). *Plenary Lecture 11: Create a Self-modeling Dss in the Cloud: Perspectives, Methodologies and Case Studies.* Paper presented at the Proceedings of the 6th WSEAS International Conference on Computer Engineering and Applications, and Proceedings of the 2012 American Conference on Applied Mathematics, Cambridge MA, Usa.

[268]. REVETRIA R.,applications, 4th WSEAS international conference on Computer engineering and. (2010). *High level architecture (HLA) Principles for distributed simulation in industry: a framework for controlling federations over a WAN.* Paper presented at the -, Cambridge (USA).

[269]. REVETRIA R.,Computation, 7th WSEAS International Conference on Systems Theory And Scientific. (2007). *Reflective Simulation for On-Line Staff Scheduling: An Innovative Methodology in Distribution Logistics Industry Application.* Paper presented at the -, Athens.

[270]. REVETRIA R.,Conference, 24th International Annual Port. (2008). *A System Dynamics Model for Supporting Harbor Logistics Monitoring.* Paper presented at the Proceedings of 24th International Annual Port Conference.

[271]. REVETRIA R.,Conference, SCI. (2001). *Replenishment Policy Optimization Using the Simulation and the Fuzzy Logic Approach.* Paper presented at the Proceedings of The SCI2001 Conference.

[272]. REVETRIA R.,Engineering, 8th WSEAS Int.Conf. on System Science And Simulation In. (2009). *Advances of Anticipation Models for On-Line Control in Steel Industry.* Paper presented at the -, Genova.

[273]. REVETRIA R.,HMS. (2003). *Using Simulation for Chemical Bulk Loading-Unloading Operations.* Paper presented at the Proceedings of HMS2003.

[274]. REVETRIA R.,SCSC. (2003). *NAVI: Learning HLA from an Interactive Exercize.* Paper presented at the Proceedings of SCSC2003, Montreal.

[275]. REVETRIA R.,TONELLI, F. (2002). Using Java Applet-Based Application to Improve Practices in Environmental Production Monitoring. *SIMULATION SERIES, 34*, 13-16.

[276]. REVETRIA R.,TONELLI, F. (2010). Neural Networks and Regressive KPI Metamodels for Business Corporate Management: Methodology and Case Study. In *BUSINESS PERFORMANCE MEASUREMENT AND MANAGEMENT: NEW CONTEXTS, THEMES AND CHALLENGES* (pp. 345-358). BERLIN: Springer.

[277]. Revetria, R., Guizzi, G., Giribone, P. (2016a). *An innovative stochastic approach to forecast the demand of new products C3 - Proceedings of the IASTED International Conference on Modelling, Identification and Control.* Paper presented at the 35th IASTED International Conference on Modelling, Identification and Control, MIC 2016.

[278]. Revetria, R., Guizzi, G., Giribone, P. (2016b). *Management redesign of a multi-product line through discrete event simulation and response surface methodology C3 - Proceedings of the IASTED International Conference on Modelling, Identification and Control.* Paper presented at the 35th IASTED International Conference on Modelling, Identification and Control, MIC 2016.

[279]. T., Murino, G., Naviglio, E., Romano, L, Guerra, Cassettari, L., Mosca, R., REVETRIA R. '12, CEA. (2012). *A WORLD CLASS MANUFACTURING IMPLEMENTATION MODEL.* Paper presented at the Applied Mathematics in Electrical and Computer Engineering.

[280]. TONELLI, F., BETTANTI, A., REVETRIA R., EUROMA. (2007). *Lean Manufacturing In Italian Companies: a Survey On Correlations Between Practices and Plant Performance.* Paper presented at the Proceedings of EUROMA07, Ankara.

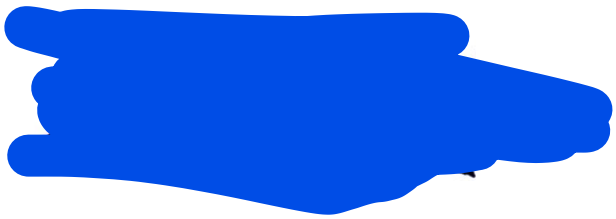
[281]. TONELLI, F., BIANCHI, N., EVANS, S., REVETRIA R., ICOSSSE. (2008). *Influencing Factors of a Successful Adoption of a Product-Service System Proposition on an Existing Product-Oriented Market.* Paper presented at the Proceedings of ICOSSSE, Venice, Italy.

[282]. TONELLI, F., BOTARELLI, M., R. REVETRIA, TATICCHI, P., ICS. (2008). *AN AGENT BASED TOOL TO SUPPORT TACTICAL DIALOGUES IN INDUSTRIAL ENTERPRISE NETWORKS.* Paper presented at the PROCEEDINGS OF INTERNATIONAL CONFERENCE ON SYSTEMS, Crete, Greece.

[283]. TONELLI, F., GROSSO, A., PATRONE, F., REVETRIA R.,MITIP. (2007). *A Virtual Enterprise Multi-agent model to support VDO decision making.* Paper presented at the Proceedings of MITIP07, Florence.

[284]. TONELLI, F., PAOLUCCI, M., REVETRIA R.,ICOSSSE. (2007). *An Agent-based System for Sales and Operations Planning in Manufacturing Supply Chains.* Paper presented at the Proceedings of ICOSSSE07, Venice.

Genoa, June 13th, 2018



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