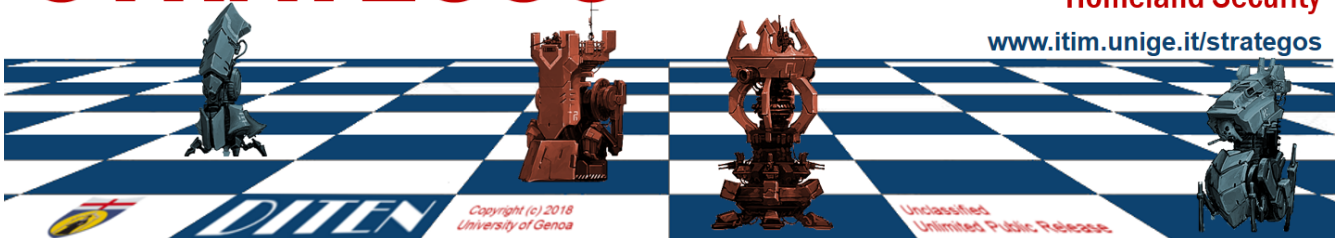


STRATEGOS

Engineering Technologies for Strategy in
Defense, Industry, Government &
Homeland Security

www.itim.unige.it/strategos



Master of Science on Engineering Technology for Strategy and Security
Polytechnic School, Est.1870 AD
Genuense Athenaeum (Genoa University), Est.1471 AD

STRATEGOS Council Chair

Name Agostino G.
Family Name Bruzzone
Citizenship Italian
Affiliation Simulation Team President
STRATEGOS Council Chair
Full Professor at DIME, Genoa University

SIM4Future srls Senior Parnter

Office Address DIME, via Opera Pia 15, 16145 Genova, Italy
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SIM4Future, via Trento 43, 16145 Genova, Italy

Office Phone
Mobile Phone

Email ag

Present Position President Simulation Team
Full Professor Genoa University
Senior Partner in SIM4Future srls

Professional Experiences

2018-Today	Council Chair of the STRATEGOS, MSc in Engineering Technology for Strategy and Security (1st MSc in Strategic Engineering in Italy and among first ones worldwide, Laurea Magistrale) at DITEN, Electrical, Electronics and Telecommunication Engineering and Naval Architecture Department, Genoa University

2012-2015	NATO Science and Technology Organization Centre for Maritime Research and Experimentation, La Spezia, Italy Modeling and Simulation Research Program Founder and Project Leader <ul style="list-style-type: none"> Developing a New Research Track in Marine Simulation for NATO STO
2017-Today	SIMAV University center for Simulation and Advanced Education member of the Board
2018- Today	CIELI Centre of Excellence in Transportations and Logistics member of the Board National Excellence Center established by Italian Ministry of Research
2012- Today	Simulation Team International Non Profit Scientific Society with over 20 Entities including Labs, University Departments and Start Up Companies President <ul style="list-style-type: none"> Representing and Directing Simulation Team as International Leading M&S (Modeling and Simulation Society)
2010-Today	M&S Net Excellence Network with 34 Institutional Centers in America, Asia, Europe General Director <ul style="list-style-type: none"> Directing M&S Center Activities Coordinate M&S Net Centers Promoting M&S development in the simulation Community Representing M&S Net Centers
2012-Today	MIPET International Master in Industrial Plant Engineering and Technologies President <ul style="list-style-type: none"> Directing this International Master Program of Genoa University sponsored by Companies; this Master addresses Project Management, Industrial Plant Engineering, Constructions, Regulations, Safety, etc.
2004-Today	DIME Genoa University Department of Industrial, Mechanical and Energetic Engineering Full Professor <ul style="list-style-type: none"> Scientific Responsible of R/D Projects sponsored by Industries and Agencies Research on Industrial Plants, Modeling and Simulation, Industrial processes, Project Management, etc. Teaching Project Management, Logistics, Modeling and Simulation, HLA, etc. Coordinating PhD, Master Thesis
1996-Today	McLeod Institute of Simulation Science, Genoa Center Director <ul style="list-style-type: none"> Coordinating Genoa Center activities in M&S within DIPTTEM Genoa University
1994—2007	The International Society for Modeling and Simulation International (SCS) Member of the Board of Directors <ul style="list-style-type: none"> Serving in the Board to Direct SCS activities

1996-Today	<p>Liophant Simulation International Non Profit Organization President</p> <ul style="list-style-type: none"> Organizing Major Simulation Conference and Meeting Worldwide International Diffusion and Exploitation of M&S
2007-2010	<p>M&S Net Excellence Network with 34 Institutional Centers in America, Asia, Europe General Vice Director</p> <ul style="list-style-type: none"> Cooperating in M&S Center Supervision Support the Coordination M&S Net Centers Developing M&S Net Web Services Supporting M&S Net Centers Promotion
2003-2007	<p>McLeod Institute of Simulation Science 24 Centers operating world wide on Modeling and Simulation General Director</p> <ul style="list-style-type: none"> Directing McLeod Activities Coordinating McLeod Institute Activities world wide Promoting McLeod development in the simulation Community Representing McLeod Institute
1992-1995	<p>FreeLance Consultant</p> <ul style="list-style-type: none"> Consulting Industries (i.e. EPCC, Oil&Gas, Iron & Steel, Glass, Food & Beverages, Automotive, Manufacturing, Chemical etc.), Services (i.e. Environment, Power, Construction & Engineering, Airlines, Tour Operators, etc.), Business (Maintenance, Service,) and Maritime Sector (i.e. Port Services, Port Terminals, Port Authorities, Intermodal & Transport Services, Logistics, Port Terminals)
1992-1993	<p>Genova Innovazione Industriale Consultant</p> <ul style="list-style-type: none"> External Consultant for New Business Developments
1991	<p>ITIS Ferraris Teacher</p> <ul style="list-style-type: none"> Professor of Automation, Piping & Controls Technical HighSchool
1990	<p>IPSIA Finale Ligure Teacher</p> <ul style="list-style-type: none"> Professor of Automation for Technical HighSchool

Education & Special Certificates

1997	Visiting Professor in Boston College	Research and Education in BC, Boston MA
1985-1992	Mechanical Engineering in Genoa University, Summa cum Laude	

1984-1985 Naval Academy of Italian Navy, Accademia Navale (3rd in Scientific Ranking, 5th in Overall Ranking)

1984 Maturita' Classica, High School Diploma, Liceo G.Chiabrera SV, 60/60

Scientific Experiences

PERSONAL SKILLS

Mother tongue(s) Italian

Language	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
VERY FLUENT					
French	C1	C1	B2	B2	B2
Fluent					
Spanish	A2	A2	A1	A1	A0
Basic					
Portuguese	A2	A1	A1	A1	A0
Very Basic					
German	A1	A1	A1	A1	A0
Very Basic					

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills

- Used to Teach Large and Small Classes, to Conduct Public Speech in front of large audience and qualified people; Experience in addressing Live Speech at Radio and TV locally and Nationally

Organisational / managerial skills

- Long Experience in Project Management on International Multi Company Projects involving R&D and Consulting
- Directing Units from 6-60 people
- President and/or General Director in Organization with over 200 people
- Project Manager in multiple international projects concurrently
- Experience as PM Coordinator in ICT (over 100 concurrent Projects in large companies, ~1 billion USD)
- Experience as PM in many projects around 1 to 6 MUSD

Job-related skills

- Mentoring Talented People, Expert in R&D, Decision Maker, Problem Solver, Project Manager, AI, IA, Modeling, Simulation, Data Analytics, Business Process Re Engineering, Digitalization

Computer skills

- Expert in Modeling and Simulation
- Expert in ICT, Web Applications, CrowdSourcing, CAD
- Expert in Project Management Tools
- Expert in Statistical analysis tools
- Experience in Office Suite
- Programmer in JAVA, C++, C#
- Experts in HLA, DIS and other Interoperability Standards
- Expert in AI and IA
- Expert in Extended Reality, MR, VR, AR

Other skills Yacht Regattas (over 50 Cups won at International and National Level)

ADDITIONAL INFORMATION

Publications
Presentations
Projects
Conferences
Seminars
Honours and awards
Memberships
References

Agostino G. Bruzzone began his engineering studies at the Italian Naval Academy with the Faculty of Pisa in 1984. After successfully completing this phase, he transferred to the University of Genoa where he earned his doctorship in Mechanical Engineering.

Since 1991, he has taught "Theories and Techniques of Automatic Control" and in 1992 he has become a member of the industrial simulation work group at the ITIM University of Genoa.

Currently he is Full Professor at DIME, University of Genoa.

He has utilized extensively simulation techniques in harbor terminals, maritime trading and sailboat racing sectors.

He worked on research projects involving innovative modeling, AI techniques and DOE (design of Experiments); particular attention was focused on the application of Neural Networks, GAs and Fuzzy Logic to industrial plant problems using Simulation and Chaos Theory.

He has been actively involved in the scientific community from several years and served as Director of the McLeod Institute of Simulation Science (MISS), Associate Vice-President and Member of the Board of the SCS (Society for Modelling & Simulation International), President of the Liophant Simulation, President of Simulation Team VicePresident and Member of the Board of MIMOS (Movimento Italiano di Simulazione), Director and Vice Director of M&S Net, Industrial Relation Chair in SCS Europe, Italian Point of Contact for the ISAG (International Simulation Advisory Group) and Sim-Serv.

He acquired extensive experience as a member of International Technical and Organization Committees (i.e. AI Application of IASTED, AI Conference, ESS, ESM, AMS, etc.) and as a General Coordinator of Scientific Initiatives (i.e. General Chair of "Simulation in Industry Conference", "Summer Computer Simulation Conference", "International Mediterranean Modelling Multiconference" and "Web Based Simulation Conference", Program Chair of the "Workshop in Harbor and Logistics Modeling", Guest Editor for "Special Issue of Harbor and Maritime Simulation" and "Supply Chain Simulation" in Int.Journals, Member of the Editorial Board of Simulation, Program Chair of "Engineering Application" in WCSS and Track Chair for Manufacturing in SCSC).

He has written more than 200 scientific papers in addition to technical and professional reports in partnerships with major companies (i.e. IBM, Fiat Group, Contship, Solvay) and agencies (i.e. NASA, European Defence Agency, NATO, National Center for Simulation, Italian MoD, Italian Navy, US Army).

As example, during 2000, he was involved in different Projects as Project Manager or Scientific Responsible such as: FLODAF (Fuzzy Logic Data Fusion Italian Navy), MASC (Modeling & Analysis for Satisfaction of Customers, COOP), DICOSAP (DIPTTEM/COOP ERP Support & Applied Planning), LEM (Logistics Educational Module, Ford Motor Co., Boston College, Liophant Simulation Club), HLA University Outreach Program (DoD, Defense Modeling & Simulation Office, McLeod Institutes of Simulation Sciences), PUMA (Project for Ultimate Maintenance, Ansaldo Energia), WILD (Web Integrated Logistics Designer, MURST, Milan & Bari Polytechnic, Firenze/Napoli/L'Aquila/Salerno University, Piaggio Aero Industries, Salver, Plyform, SirioPanel, OMA, Geven, Magnaghi). In the same year he was involved, as international expert, in the development of NATO project NIAG SG60 (Simulation Based Design and Virtual Prototyping, NATO).

Currently Agostino Bruzzone is in charge as Director of the Technical Council of "SIMulation applications in Management, PLanning & forEcaSTing" for the Society of Computer Simulation International.

He is McLeod Genoa Center Director in DIME for the McLeod Institute of Simulation Science (an Institution with over 28 Centers distributed worldwide: Brazil, China, USA, UK, Italy, France, Germany, Canada, Spain etc.) and he is Director of M&S Net an International Network involving 34 Centers.

He is founder member and president of the Liophant Simulation and Simulation Team.

He is also and member of Who's Who, IEEE, IASTED, ANIMP, SCS, MIMOS etc. Currently he works in the Department of Industrial Production, Thermoenergy, Engineering and Mathematical Modelling (DIME, formerly DIPTTEM, DIPEM, DIP and ITIM) at the University of Genoa as Full Professor. He is active in the field of simulator-based applications for industrial plants, developing new methodologies and intelligent system integration techniques.

He teaches "Project Management" and "Industrial Logistics" at the University for students in the Mechanical Engineering (4th year), Management Engineering (4th year) and Logistics & Production

Engineering (3rd year) degree courses; He teaches "Modelling & Simulation", "M&S for Biomedical System" and VV&A for the DIMS PhD Program (Doctorship in Integrated Mathematical Modelling and Simulation).

He is President of the MIPET (Master Program in Industrial Plant Engineering & Technologies - Master in Impiantistica Industriale e Grandi Impianti) of Genoa University. He served as M&S Project Leader for NATO STO Center for Maritime Research and Experimentation (CMRE).

He advised over 20 PhD Thesis in Mathematical Engineering and Interoperable Simulation (DIMS PhD Program) in Genoa University. He served as Advisor, Reviewer for Thesis in France, Ireland, USA, Germany, Kuwait and Saudi Arabia.

He is author of over 300 papers in International Journals and Scientific International Conferences
He is Senior Partner and Founder of SIM4Future, University of Genoa Spin-off

ANNEXES

Scientific Publications

- Solis A.O., Marquez L.O., Bruzzone A.G. (2020). Editorial: Special Section on Modeling and Simulation in Disaster and Emergency Management. IEEE Transactions on Engineering Management, ISSN 189391, Vol. 67, Issue 3, Art No. 9142589, pp. 516-518
- Bruzzone A.G., Agresta M., Hsien Hsu J. (2020). Word of Mouth, Viral Marketing and Open Data: A Large-Scale Simulation for Predicting Opinion Diffusion on Ethical Food Consumption. International Journal of Food Engineering, ISSN 21945764, Vol. 16, Issue 5-6, Art No. 20180139
- Bruzzone A., Massei M., Sinelshnikov K. (2020). Enabling strategic decisions for the industry of tomorrow. Procedia Manufacturing, ISSN 23519789, Vol. 42, pp. 548-553
- Bruzzone A., Massei M., Sinelshchikov K., Baviera L., Fabbrini G., Gotelli M., Procházka J., Kutej L., Scurek R. (2020). Persistence Through Collaboration at Sea for Off-Shore and Coastal Operations. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), ISSN 3029743, Vol. 11995 LNCS, pp. 427-438
- Bruzzone A., Merkurjev Y. (2019). General co-chairs' message. 21st International Conference on Harbor, Maritime and Multimodal Logistics Modeling and Simulation, HMS 2019, ISBN 9788885741287, pp. VIII
- Bruzzone A.G., Sottolare R.A. (2019). Co-chairs' message. 9th International Defense and Homeland Security Simulation Workshop, DHSS 2019, ISBN 9788885741348, pp. IX
- Bruzzone A.G., Agresta M., Sinelshchikov K., Massei M. (2019). Intelligent autonomous system devoted to improve efficiency and safety in industrial plant. 18th International Conference on Modeling and Applied Simulation, MAS 2019, ISBN 9788885741300, pp. 186-191
- Bruzzone A.G., Massei M., Di Matteo R., Kutej L. (2019). Introducing Intelligence and Autonomy into Industrial Robots to Address Operations into Dangerous Area. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), ISSN 3029743, Vol. 11472 LNCS, pp. 433-444
- Bruzzone A.G., Fancello G., Daga M., Leban B., Massei M. (2019). Mixed reality for industrial applications: Interactions in human-machine system and modelling in immersive virtual environment. International Journal of Simulation and Process Modelling, ISSN 17402123, Vol. 14, Issue 2, pp. 165-177
- Bruzzone A.G., Franzinetti G., Massei M., Di Matteo R., Kutej L. (2019). LAWs: Latent Demand for Simulation of Lethal Autonomous Weapon Systems. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), ISSN 3029743, Vol. 11472 LNCS, pp. 503-513
- Bruzzone A.G., Massei M., Sinelshchikov K., Fabbrini G., Gotelli M., Molinari A. (2019). Machine learning to support industrial digitalization and business transformation. 31st European Modeling and Simulation Symposium, EMSS 2019, ISBN 9788885741263, pp. 390-393
- Bruzzone A.G., Procházka J., Kutej L., Procházka D., Kozubek J., Scurek R. (2019). Modelling and Optimization of the Air Operational Manoeuvre. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), ISSN 3029743, Vol. 11472 LNCS, pp. 43-53
- Bruzzone A.G., Massei M., Sinelshchikov K., Fadda P., Fancello G., Fabbrini G., Gotelli M. (2019). Extended reality, intelligent agents and simulation to improve efficiency, safety and security in harbors and port plants. 21st International Conference on Harbor, Maritime and Multimodal