



The 30th International Conference of the System Dynamics Society, St. Gallen, Switzerland



July 22 – July 26, 2012
Topic: Model-based Management

University of St. Gallen



System Dynamics Italian Chapter - SYDIC -

Officers	
President	Stefano Armenia (Rome - CATTID)
Chapter-society liaison	Claudia Caballini (Genoa - UNIGE)
Secretary	Alberto S. Atzori (Sassari - UNISS)
Treasurer	Roberto Marcialis (Genoa - NRC)
Webmaster	Stefano Dafano
Website	http://www.systemdynamics.it

Variable	Number
Universities	16
Faculty (from the professors)	23
Courses	9
Second generation faculty	7
School initiatives	2
Materials	40
Application fields	6

Università Cattolica di Milano, Faculty of Economics, (Prof. Alessandro Rossi)
Teaching: Virtual Learning Systems; Seminars (20 hours) in System Dynamics and the Economy of Innovation.

Politecnico di Torino, (Prof. Carlo Rafele)
Teaching: Doctoral program in Production Systems & Industrial Design. PhD course: Complexity in Organized Systems.
Research: Developing a System Dynamics model for quantitative evaluation of the diffusion of a smart distribution service for groceries through the analysis of the enabling factors (as part of the Smart Operational Logistic Efficiency) Project, partner Telecom Italia).
System Dynamics of hospital warehouse centralization in Italy.

Eni Corporate University, Scuola Enrico Mattei (Dr Stefania Migliavacca)
Teaching: MS in Energy and Environmental Economics and Management.
Course: System Dynamics to energy and environment.
Research: Power sector in China; Public debt issue in Greece; Transportation in Asia. On the road: transportation scenarios in the US; Waste management system in Italy; Oil reserves and the peak oil issue; Economic crisis and electric sector in Italy; Energy and poverty; Renewable energy potential in Italy.

MAS Consulting s.r.l. (Matteo Alberti)
Research and consulting project for the simulation of the New Group Strategic Plan of a major international energy player operating on the Italian Market.
Consulting using System Dynamics techniques and instruments

National Research Council: Institute of intelligent systems for automation (CNR-ISSIA) (Dr Nicola Bianchi e Roberto Marcialis)
Teaching: Training courses of Systems Thinking and System Dynamics on Corporate Social Responsibility and Energy Saving (12 hours)
Seminar and practice based on: ST and SD; ethical choices of Athens and Sparta as metaphor (4 hours).
Research: - Ethical basis in the evolution of societies; - Soft variables and intangible assets; - Stakeholders engagement; - Product-Service Systems; - Project Management; -Corporate Social Responsibility; - Energy Saving Policies; - Sustainable Cities Governance.

University of Genoa, DIBRIS: Department of Computer science, robotics, bioengineering, and systems engineering (dr Claudia Caballini)
Teaching: 2nd year course in SD modelling. Technical laboratory of Management Engineering (30 hours).
Research: SD applied to ports logistics and transportation.

University of Sassari, Dipartimento di Agraria - Sezione di Scienze Zootecniche (dr Alberto Stanislao Atzori)
Teaching: Basis of System Dynamics Modeling and model evaluation (24 hours) in the PhD school of "Science and Biotechnology of Agricultural Systems, Forestry and Food".
Research: The dynamics in the dairy cattle sector; modelling of greenhouses gas emissions in relationship to human population growth.

University of Naples "Federico II", Environmental and Forest Sciences, (Prof. Francesco Giannino)
Teaching: Ecology and applied modelling (12 CFU).
Research: Models of ecological processes: development of models of the vegetation and the ground-plant-atmosphere dynamic system. C-cycle models: ecosystem carbon cycle in Mediterranean bush under different environmental conditions and vegetable species; aggregation process of the organic substance in the ground. Applied modelling Software: analysis and comparison of different software of integrated modelling, in which some systems with various space-temporal scales interact.
FIRB - Futuro in ricerca proposal project "Integration of simulation models and environmental wireless sensor networks for the assessment of CO₂ fluxes in agricultural and natural ecosystems".



Various activity: teaching, research, consulting etc., in different technical and scientific areas.

University of Bologna, Department of Computer Science (Prof Edoardo Molino)
Teaching: Dynamics of Complex Organisations (48 hours)
Research: Evolution of industrial clusters and supply-chains. - Evolution of large organisations. - Association of SD and Institutionalism. - Analysis of privatization processes. - Epistemology: Critical Realism and System Dynamics.

University of Siena, Faculty of Economics, Department of Social and Business Studies, (Prof. Federico Barnabè)
Teaching: PhD in Business Administration and Governance; Course "Advanced simulation Techniques"
Seminars: Management control and performance measurement systems; MS in Accounting and Management.
Research: - development of System Dynamics based Balanced Scorecards; - Interactive Learning Environments for knowledge elicitation and knowledge sharing; - Interactive Learning Environments in management education.

Italian Armed Forces - Joint Services Staff College, (Lt. Col. Angelo de Angelis)
Teaching: SD and ST, operations Planning.

University of Rome "Sapienza" CATTID (dr Stefano Armenia)
Research: CROSSOVER Project (Fp7 ICT-2011.5.6) Following the success of the CROSSROAD Project, Crossover will pursue the dissemination of the research roadmap on future ICT for policy modeling by cross-disseminating the concepts related to the policy cycle. SD is among the items recognized as most valuable for the policy assessment and evaluation steps.
CRISADMIN Project (HOME/2011/CIPS/AG/4000002116, CIPS2011, DG-HOME). CRISADMIN will try to identify the interrelationships among critical infrastructures in order to prevent crisis situations, domino effects and possible threats to the security of governments. Output of the project will be to provide the decision-makers for the protection and security of critical infrastructures with a DSS with which to experiment and evaluate (in a controlled and virtual environment) alternative prevention and/or intervention policies.

Membership statistics

Membership SDS	Sydic members
SYDIC	166
SYDIC and SDS	9
Italian SDS not SYDIC	8
Total people	183

Publications 2011	Number
Articles	10
Proceedings	15
Books	1
Total	26

Region	Sydic members
Basilicata	2
Campania	7
Emilia Romagna	12
Friuli	1
Lazio	61
Liguria	6
Lombardia	30
Marche	3
Piemonte	13
Puglia	8
Sardegna	2
Sicilia	8
Toscana	7
Umbria	1
Veneto	7
Out of the country	7
Total members	175

Gender	Sydic members
Female	49
Male	126

Age	Sydic members
< 35 years old	79
>35 years old	96

Country area	Sydic members
Center	73
North	69
South and islands	26
Out of the country	7

Education	Sydic members
Graduate male	97
Graduate female	21
Undergraduate (or bachelor degree)	20
PhD	30
Not specified	7

Job position	Sydic members
Faculty or PhD student	32
Manager, consultant, engineer, business employee	69
Student	21
Other and retired	3
Public or Army	15
Not specified	35