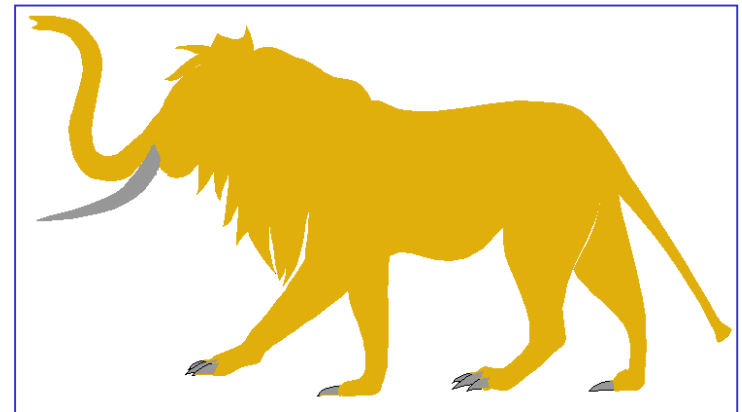


Liophant Simulation

Report 2003-2004

www.liophant.org





Liophant Simulation

<http://www.liophant.org>

Email info@liophant.org



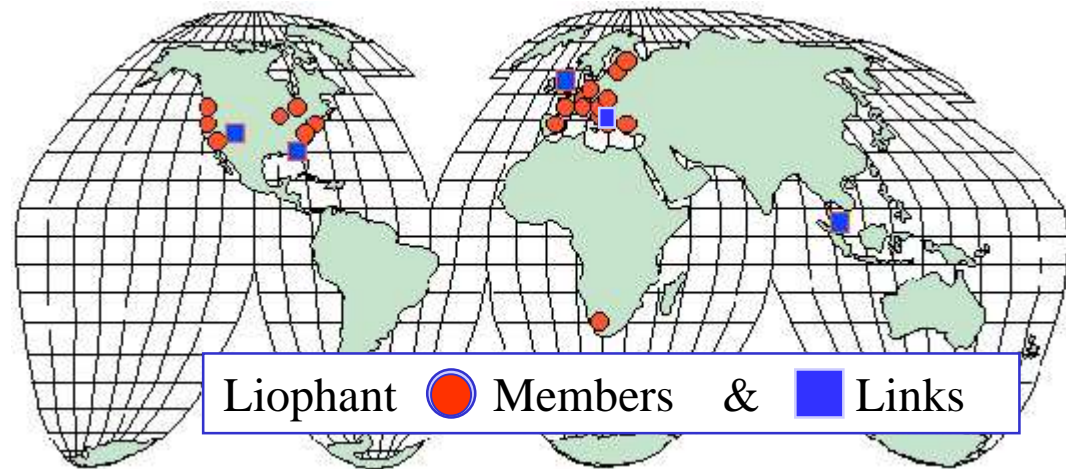
Liophant Simulation involves World-Wide over 150 Scientists and Technicians working in Companies and Academia.

The *Liophant* develops Advanced Projects for Real Industrial Applications as:

- ∇ VAED : Virtual Aided Engineering & Design (Gas Turbine Modeling)
- ∇ Safety First : Virtual Ship Handling Simulation in Harbour Environment
- ∇ Wolves: Warehouse Management & Logistics Simulation
- ∇ Health Care Survey

Liophant Simulation promotes international Cooperations and exchanges with Excellence Centers World-Wide (i.e. NCS)

<http://www.liophant.org>

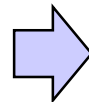
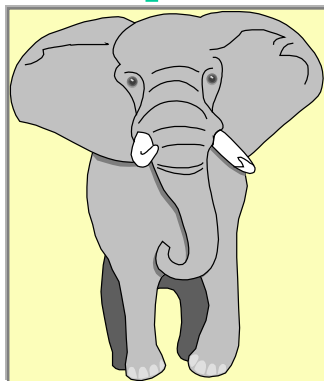




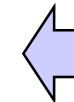
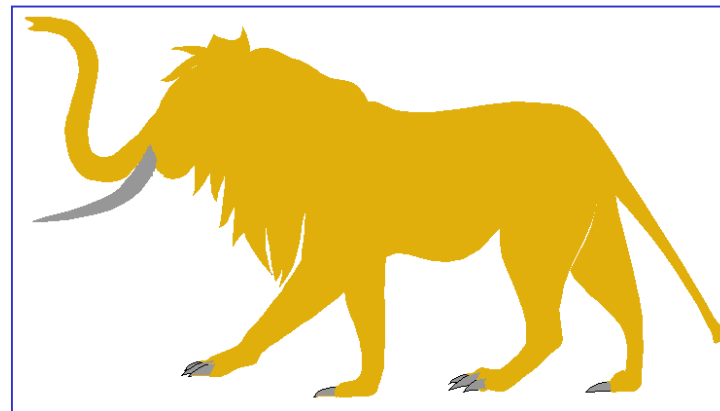
What is a Liophant ?

- It is an Animal that is a combination of an Elephant and a Lion
- It's a Mythological Creature
- He is courageous as a Lion & powerful as a Elephant

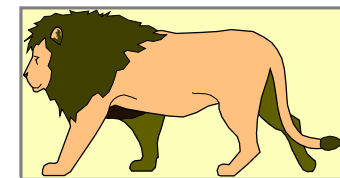
Elephant



Liophant



Lion



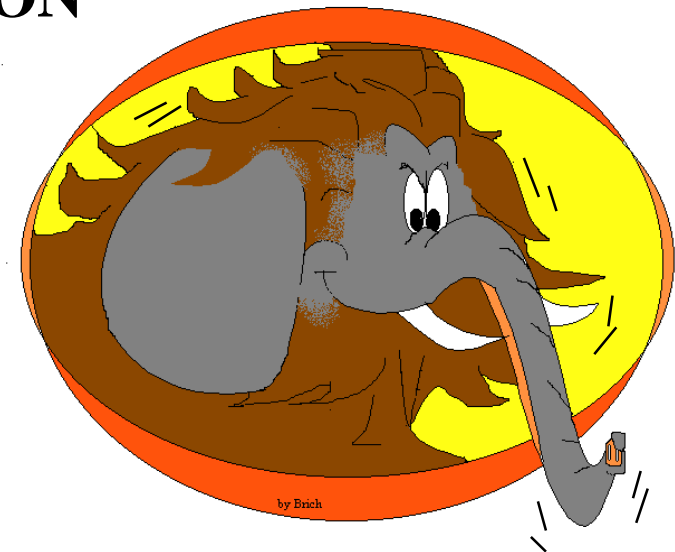
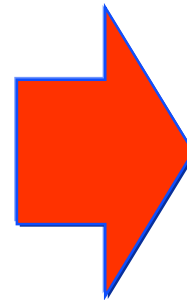


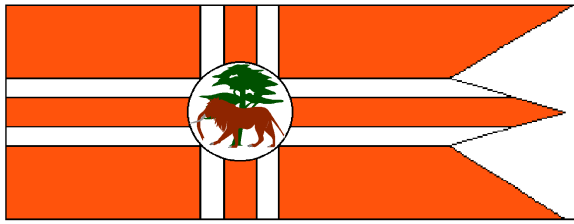
Why Liophant?

- The *Liophant* is a Mythological Being that only Simulation could bring back to life.



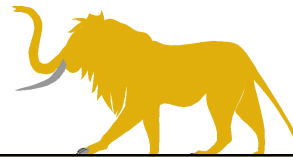
SIMULATION





Liophant Simulation

Attendance & Support to
Conferences World-Wide



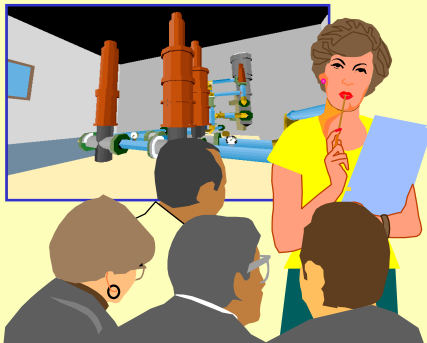
Social Events
& Simulation
Promotion



Courses in Modelling &
Simulation, HLA, VV&A,
PM



Meeting on Simulation
Application & News



Dynamic Upgrades by using
Internet, news letters,
usergroups, journals, books

Liophant Keywords:

International Cooperation Programs

NASA & NCS

ENSO

McLeod Institute of Simulation Science

IEPAL EU/USA Transatlantic Program

Act as a Point of Contact between Academia and Real World

Support to University in Promotion Activity

Organization of Meetings & Workshops

Motivation of the Students

International Contacts & Exchanges

Independence of the Organization

Real Industrial Challenging Projects

Opportunities for Leadership and Team Working

Dynamical Relationship between Liophant and Young Members in Industry



HMS & MAS Workshops



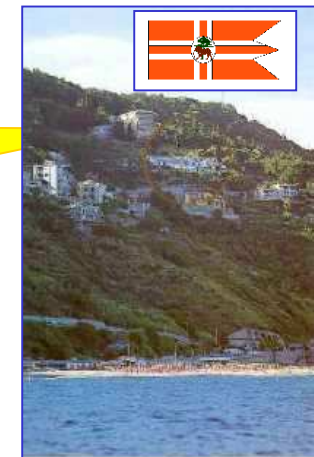
The International Workshop on Harbour, Maritime & Multimodal Logistics Modelling & Simulation

The International Workshop on Modelling and Applied Simulation



The HMS & MAS Workshops are becoming a classical event, after the editions in Riga, Genova, Portofino, Marseille, Bergeggi.

In 2004 HMS will be held in Rio de Janeiro



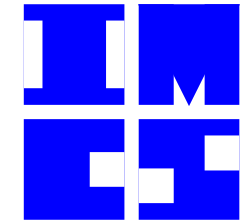
The Workshops were attended by worldwide experts in modelling & simulation applied to logistics.



Check <http://st.itim.unige.it/hms2004> - <http://st.itim.unige.it/mas2004>

I3M: 1st Mediterranean Meeting

International Mediterranean Modeling Multiconference



The I3M Multi conference is a new International event devoted to promote M&S within Mediterranean Region and currently involves five major workshops.

In I3M 2004 will be held in Genoa



MAS2004
Modelling & Applied Simulation



NEMO 2004
Nanotechnologies and M&S

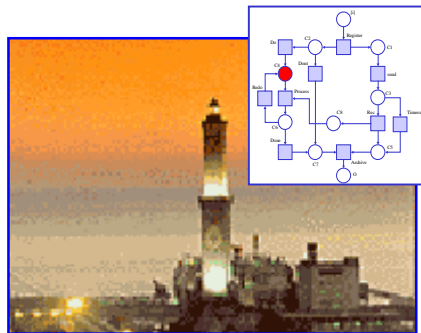
CSM2004
Conceptual M&S



AVCS2004
Advances in Vehicle Control and Safety



IMAACA2004
Applied Control & Automation

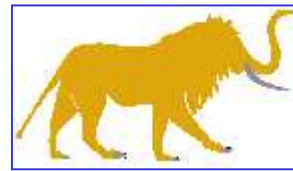
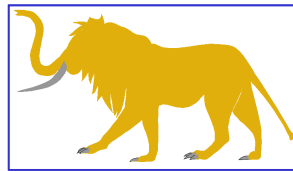


Check <http://st.itim.unige.it/hms2004> - <http://st.itim.unige.it/mas2004>

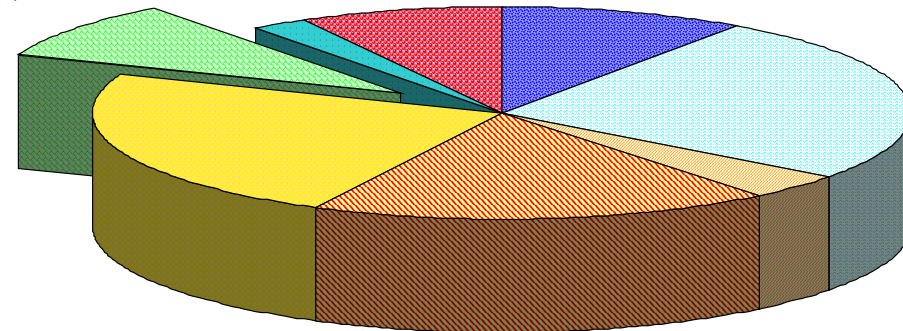
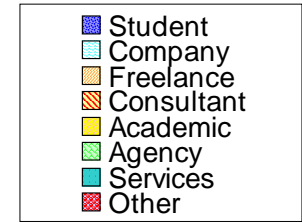
Liophant Figures

Services & Associations of the Members:

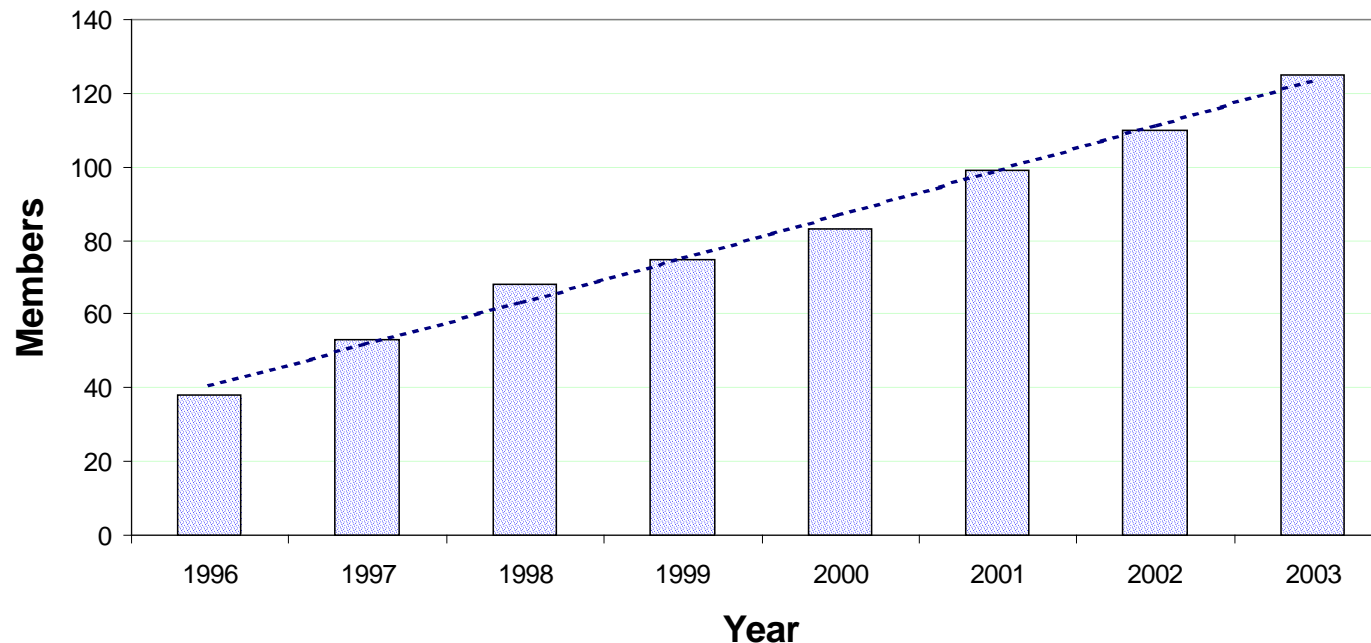
Italian Army, Guardia di Finanza, MISS,
NCS, Fraunhofer IFF



Member Activities 2003



Liophant Members



**Companies of
the Members**
Examples:
Ford Motor Co.
Exxon
Accenture,
Mckinsey
COOP
IVECO
& SMEs

The International Activity of Liophant

1996

ICAMES96, Istanbul, May
Best Project Award for Prosim(1st),
Wolf, Moretti, Briano, Brandolini, Vio,
Tremori



Student Activity



ESS96, Genoa October,
Simulation in Industry

Organization
Full Staff

ESM96, Budapest, June
**Environment Applications of
Neural Networks**

Motta



1st National Conf. On
Maritime Safety,
Genoa September,
Organization
Full Staff



ANIMP96, Venice, October
Computer Graphics for Production

Best Project Award
M.Mosca, S.Genta

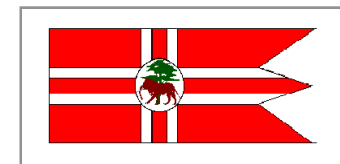
MIC96, Innsbruck, February
Modelling & Simulation

Brandolini



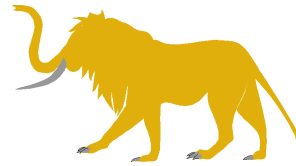
AILOG96, Milan, May
Warehouse Simulation

Best Project Award (1st)
Bertolini & Tremori



Student Activity

The International Activity of Liophant



Student Activity

1997

ICAMES97, Istanbul, May
 Award for Prisoner's Dilemma Algorithm (1st)
 Award for VAED (3rd),
 Gabriele Cotta & Roberto Revetria



ANIMP97, Sorrento, October
Virtual Aided Engineering & Design
 Best Project Award
 Gabriele Cotta & Cerruto



EUROMEDIA, London
Web Based Applications
 Lorenzo Motta

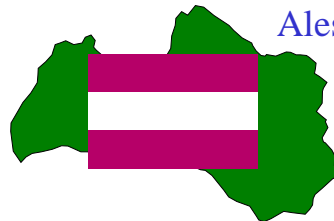
ESM97, Istanbul, June
Environment Applications of Neural Networks
 Motta



Magdeburg 97, October
WOLVES Warehouse Org. & Logistics Simulation
 Bertolini
 Carbone
 Revetria



Riga 97, October
Web Based Simulation of Harbour Services
 Alessio Carbone



Phoenix 97, July
Health Care System Survey
 Wolf



ESS97, Passau, October
Pollution Control
 Lorenzo Motta



ITEC97, Lausanne, June
Safety First: Virtual Harbour
 Gabriele Cotta & Mauro Cerruto

Orlando 97, September
NCS Cooperations, Remote Education Project
 Alberto Tremori

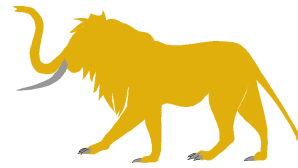
Student Activity

The International Activity of Liophant

ICAMES98, Istanbul, May

POSEIDON

A/Carbone, M.Lagostena, G.Tani



Summer Simulation
Reno 98, July
TQM
Filippo Paradiso

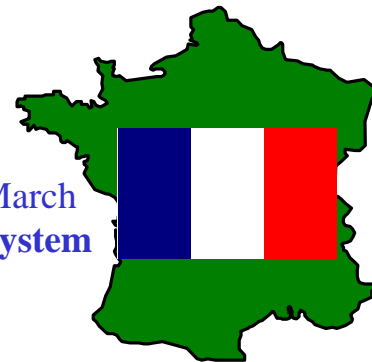


WMC98, San Diego 98
Artificial Neural Network
Lorenzo Motta



**Riga 98, Workshop on Modeling
within a Maritime Environment
Web Based Harbour Simulation**
A.Carbone, A. Devoti, A.Tremori

NEURAP98, Marseille, March
Intelligent Acquisition System
Best Paper Award
R.Revetria, L.Motta



ESM98, Machester
Web Based Applications
Lorenzo Motta



Student Activity

1998

Ports98, Genoa, September
Multedo Terminal Simulation
Alessio Carbone



Meeting LSC, NASA
Genoa, April

ANIMP98, Bologna, October
Automotive Assembling Simulation
Filippo Paradiso



ITEC98, Lausanne, June
Alessio Carbone, Roberto Revetria

Student Activity

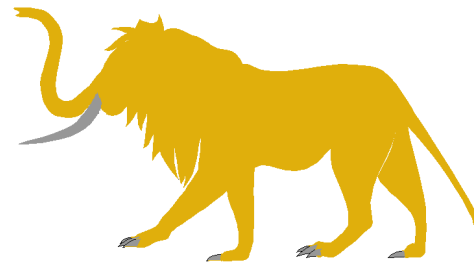
The International Activity of Liophant

ICAMES99, Istanbul, May

MESA, WORM

S.Rapallo, C.Scuteri, G.Vano, F.Vio

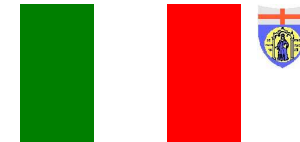
2nd & 3rd Best Projects Award



Student Activity

1999

Workshop HMS99
Genoa - September



ANIMP99, Ischia Oct.
S.Rapallo
Best Thesis Award

Summer Simulation Conference 1999

Chicago, July
Francesca Vio



Detroit, Jul-Aug / Nov-Dec
Ford Motor Co.
F.Vio, R.Revetria



Simulation Languages, Jul-Aug
University of Calgary
M.Mosca F.Tonelli



Boston, Apr-Jul-Aug
Boston College
Francesca Vio



WMC99, San Francisco
Neural Networks - February
L.Motta

Winter Simulation Conf.



Phoenix, December
Roberto Revetria

Washington, April
Pentagon
S.Rapallo



MIC99/AI99, Innsbruck, Feb
Automation & Simulation
M.Brandolini, C.Briano, E.Briano



Tallahasse, Nov-Dec
M.Mosca, F.Tonnelli



Orlando May / Nov-Dec
NCS & Nasa
S.Rapallo, A.Carbone



Baraquilla, Dec.
Luca Patrone



New Mexico City, Nov.
Luca Patrone



ITEC99

The Hague April

Project Management
A.Carbone, R.Revetria



NATO / Atlas
Bremen - Aug
VV&A
M.Brandolini



MISS - DIP University of Genoa

Liophant Simulation



The International Activity of Liophant

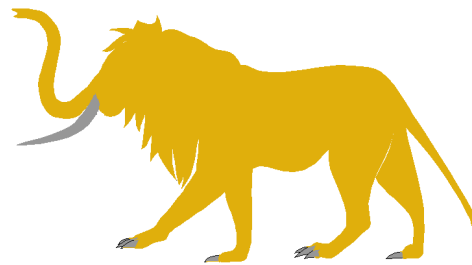
ICAMES2000, Istanbul, May

PUMA & GILA

Simeoni, Fracchia, PozziC.,

Mantero, Vigano`, Diglio

1st Best Projects Award



Student Activity 2000

Workshop HMS2000
Portofino Oct.



ANIMP00, Trieste Oct.

Simeoni, Fracchia, PozziC.
Thesis Award

Montreal, July
CAE Electronics
S.Simeoni



Montreal, August
Lockheed
Simeone Simeoni



Simulation Languages, Jul
CSUC
PozziCotto



MIC00/AI00, Innsbruck, Feb

Automation & Simulation

M.Brandolini



01

Ostrava, Oct-Dec
Kindler (Patrone, Unali)



Orlando May / Nov-Dec
NCS & Nasa



Enrica Fracchia

WMC2000

San Diego, December

L.Motta

ITEC00

The Hague April

Simulation for Education

R.Revetria



RTU, Baltic CT

Riga, Oct-Dec

Diglio & Mantero



Hamburg

ESS2000

October

Pozzicotto



MISS - DIP University of Genoa

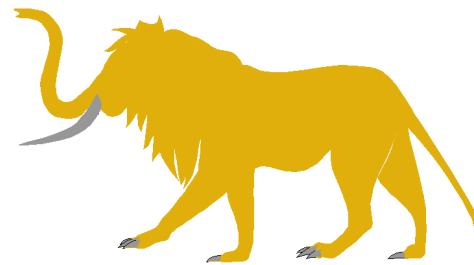


Liophant Simulation



The International Activity of Liophant

ICAMES2001, Istanbul, May
 DICOSAP & Neptune
 C.Burlando M.Genovese, L.Rombi
 2nd & 3rd Best Projects Award



Student Activity 2001

Siren Course M&S
 Bergeggi Oct.



ANIMP01
 Spoleto Oct.
 S.Simeoni

Siren Course
 HLA
 Rome June
 Revetria

Fordo Motor Co., April
 Detroit



Simeone Simeoni



Boston College
 IEPAL Program



NCS & Nasa
 IEPAL Program



MIC01/AI01, Innsbruck, Feb
 Automation & Simulation
 Alessandro Scopinich & Riccardo Danio



CUM
 Praha, June
 Kindler (Patrone, Unali)



ITEC2001
 Lille April
 G.Diglio',
 G.Vigano'

HMS2001
 Marseille, October
 Burlando, Diglio, Genovese,
 Queirolo, Vigano'



Fraunhofer IFF
 Magdeburg
 November
 Pozzi Cotto



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Liophant Simulation



The International Activity of Liophant

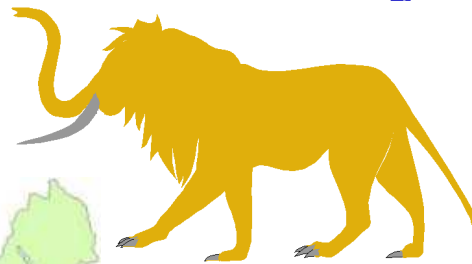
ICAMES2002, Istanbul, May 

CHARME & ROSES

S.Simeoni, S. Viazzo, O. Serindat, F. Bertone

Best Projects Award

Professional & Student Activity **2002**



Creta,
A. Orsoni



Sweden
December
S. Pozzi Cotto



Lisboa
A. Orsoni

Workshop HMS2002/MAS2002
Bergeggi, Oct.



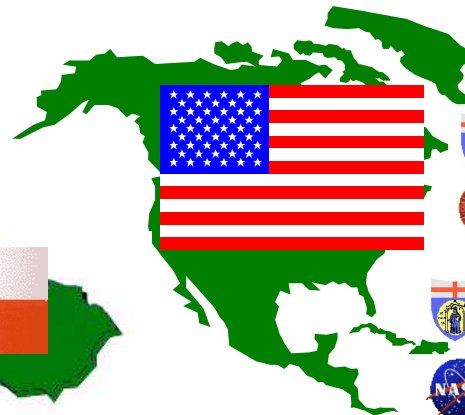
IEPAL Genoa/Venice
E. Briano, E.M. Mantero,
F. Oliva, S. Viazzo

CFUI

Consorzio Formazione Logistica Intermodale



W.Bohemia Univ.
December
S. Pozzi Cotto



Boston, December
Boston College
R. Revetria

Orlando July-Sept.-Dec.
NCS & Nasa - IEPAL
S. Viazzo, S. Simeoni,
E. Costa, E.M. Mantero,
F. Oliva



MIC00/AI00, Innsbruck, Feb

Automation & Simulation

M.Brandolini, C. Briano, E. Briano
R.Revetria, S. Viazzo, O.Serindat



Rio De Janeiro, UFRJ
December
Simeoni,
Bruzzone



RTU, LIS
Riga, June
R.Revetria



Dresden
A.Orsoni
S.Pozzi Cotto



MISS - DIP University of Genoa



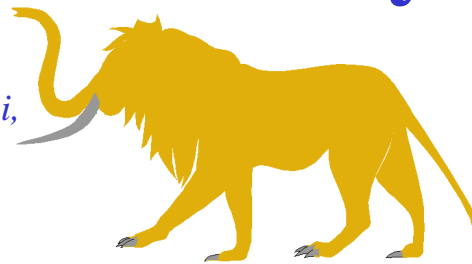
Liophant Simulation



The International Activity of Liophant

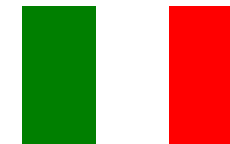
ICAMES2003, Istanbul, May
DIROMATIC, NERONE

F.Figini, M.Sanguinetti, G.Boero, C.Caballini,
V.Barucci, S.De Michelis
3rd Best Projects Award



Student Activity **2003**
PhD, Master, BS

Workshop MAS2003
Bergeggi, Oct.



Consorzio Formazione Logistica Internazionale

IEPAL/IEEE

Genoa/Novara

E.Mantero, D.Carini
Over 26 students from USA,
Germany, France, Turkey & Italy

Workshop VMASC,
Liophant MISS
Genoa, September
F.Figini, D.Carini

SCSC2003

Student Workshop
Montreal July

Over 10 students from USA, Canada



Boston College &
Stevens Institute

March-April
V.Bortoletto, G.Boero,



M.Sanguinetti, C.Caballini
Over 10 students from Germany, France & Italy



Orlando March-April
NCS & UCF - IEPAL
V.Bortoletto, G.Boero,
M.Sanguinetti, C.Caballini
Over 10 students from Germany, France & Italy



DS-RT2003, ESS2003

Delft, October

P.Blomjous,
van Houten



MIC03, Innsbruck, Feb
Agent Driven Simulation
E. Briano



SportFest 2003, June
Liophant Football
Team 3rd Position



SCS, ICT & Univ
Southern California

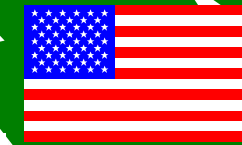
November

Danila Carini



Universidad
Panamericana

Danila Carini December
Mexico City



UFRJ

UFRJ
Rio De Janeiro
October-November

F.Figini



MISS - DIP University of

Liophant Simulation



Liophant Simulation Libraries

D	TITLE	Editor	Keywords
1	Systems Magazine Future Generation Computer	IEEE Aerospace & Electronic	Data Processing
2	Systems	North-Holland	IT Industrial
3	Automazione	Jackson	Engineering Industrial
4	Rivista di Meccanica Oggi	Jackson	Engineering
5	Simulation News Europe	Eurosim	Simulation
6	Jane's Defence Weekly	Jane's	Military Industrial
7	Impiantistica Italiana	ANIMP Society for Computer	Engineering
8	Simulation Singapore Maritime & Port Journal	Simulation	Simulation
9	2001	MPA Singapore	Logistics

LSC has a wide selection of International Journals, Conference Proceedings and Scientific Books to be consulted by Liophant Members. Texts are spread in the libraries.

Here are some examples of Books and Journals in the Liophant Libraries



ID	Title	Authors	Editor	Year	Keywords
B1	Making Hard Decisions Vol.1/2	R.J. Clemen	Duxbury	1985	DSS
B2	Making Hard Decisions Vol.2/2	R.J. Clemen	Duxbury	1985	DSS
B3	Neural Networks in Finance & Investing Vol. 1/2	R.R. Trippi, E. Turban	Probus Publishing Company	1992	AI
B4	Neural Networks in Finance & Investing Vol. 2/2	R.R. Trippi, E. Turban	Probus Publishing Company	1992	AI
B5	Nonlinear Dynamical Systems (Edition II)	P.A. Cook	M.J. Grimble - Prentice Hall	1994	Data Processing
B6	Manuale di Manutenzione degli Impianti Industriali e Servizi	L.Furlanetto	FrancoAngeli	1998	Industrial Engineering
B7	Applichiamo il Total Productive Maintenance	Vari - JIPM - JMAG	FrancoAngeli	1991	Management
B8	Implementing Six Sigma	F.Breyfogle	Wiley-Interscience	1999	Management
B9	Measuring Six Sigma & Beyond	R.Lawson, B. Stuart	Motorola University Press	1997	Management
B10	The Baldrige Award for Education	J.S.Arcaro	St. Lucie Press	1995	Management
B11	Applied Chaos Theory	A.B. Cambel	Academic Press	1993	Data Processing
B12	The Fractal Geometry of Nature	B.B. Mandelbrot	Freeman	1983	Modelling
B13	Making Hard Decisions New Edition	R.J. Clemen, T.Reilly	Duxbury	2001	DSS
B14	Fractals & Scaling in Finance	B.B. Mandelbrot	Springer	1997	Modelling
B15	Small Worlds	D.J.Watts	Princeton University Press	1999	Modelling
B16	Simulation and Information System Design	E. Blumel, L. Novitsky	Jumi	2000	Simulation
B17	Outsourcing	S.M. Bragg	Wiley-Interscience	1998	Management
B18	Operations Scheduling	M.Pinedo, X. Chao	Irwin / McGraw -Hill	1999	Management
B19	Simulation Modelling Using @Risk	W.L.Winston	Duxbury - Thomson Learning	2001	Simulation
B20	A First Course in Fuzzy Logic	H.T.Nguyen, E.A.Walker	Chapman & Hall	2000	AI
B21	Project Management	H.Kerzner	Van Nostrand Reinhold	1998	Management
B22	Borland C++ Builder Guide	K. Reisdorph	SAMS Publishing/Apogeo	1998	IT
B23	Tracking & Kalman Filtering Made Easy	E. Brookner	Wiley-Interscience	1998	Data Processing
B24	Handbook of Simulation	J.Banks	Wiley-Interscience	1998	Simulation
B25	Electronic Warfare in the Information Age	D. C. Schleher	Artech House	1999	Military
B26	Understanding Synthetic Aperture Radar Images	C.Oliver, S. Quegan	Artech House	1998	Data Processing
B27	Travi IPE-HE Sollecitate a Compressione ed a Flessione	ILVA Quaderno Tecnico	ILVA - Gruppo IRI		Industrial Engineering
B28	SCAAT: Incremental Tracking with Incomplete Information	G.F.Welch	Chapel Hill	1996	Data Processing
B29	Deterministic and Stochastic Optimal Control	W.H.Fleming, R.W. Rishel	Springer-Verlag		Data Processing
B30	A Generic Traffic Simulation System with Distributed Load Sharing	J M Creagh	University College Cork	2000	Simulation
B31	Almanacco Navale	Vari	Istituto Idrografico della Marina	1988	Military
B32	Il Controllo Statistico per il Responsabile di Qualita'		FrancoAngeli	1995	Management
B33	Basi di Dati e Basi di Conoscenza		Jackson	1995	Data Processing

Liophant Simulation Football Team

In May 2003 Liophant Simulation established the Liophant Football Team involving students from Genoa and Alessandria University.



The team first international competition was *Sports Fest 2003*, June 2003 Bogazici University Istanbul; this is a very important international event involving over 40 Universities from worldwide. Liophant Team obtained 3rd Place in the Tournament, while one of the team was elected SportsFest King during the party.



Liophant Members

- P. Acampora
- T. Agnesseens
- J.L.D. Alves
- Z. Andonov
- P. Armando
- S. Atzeni
- V. Ayra
- V.J. Bakman
- G. Berrino
- F. Bertolini
- F. Bertoni
- C. Bezzi
- A. Bina
- E. Blumel
- E. Bocca
- M. Brandolini
- BRB Studio
- C. Briano
- E. Briano
- A. Bruzzone
- G. Bruzzone
- C. Burlando
- M. Cantilli
- S. Capasso
- G. Capra
- A. Carbone
- D. Carini
- M. Casciarino
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