

Liophant Simulation

Report 2004-2005

www.liophant.org





Liophant Simulation

<http://www.liophant.org>

Email info@liophant.org



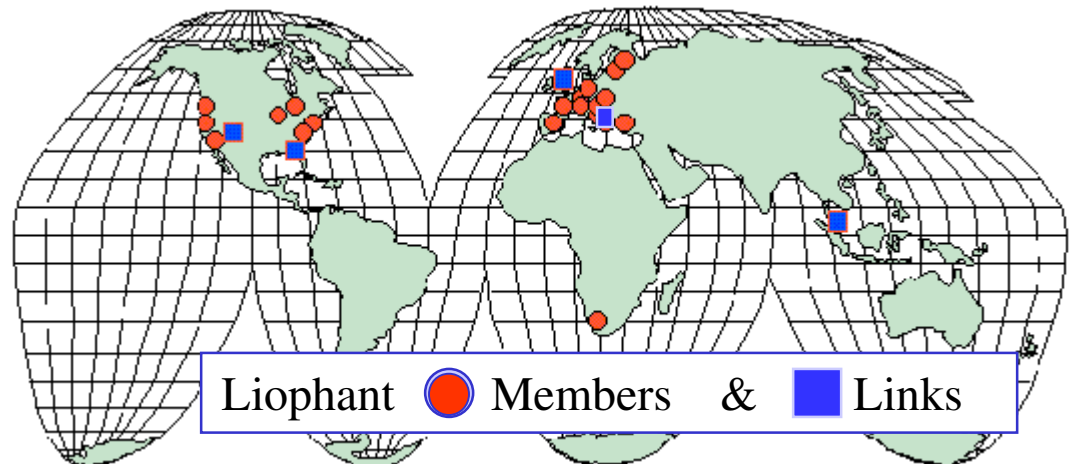
Liophant Simulation involves World-Wide over 140 Scientists and Technicians working in Companies and Academia.

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>

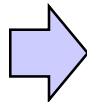
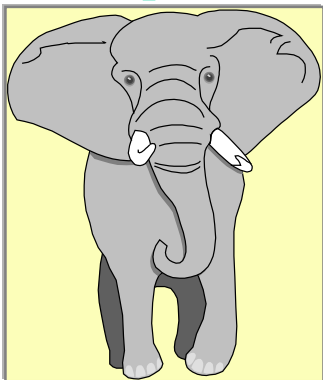




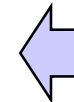
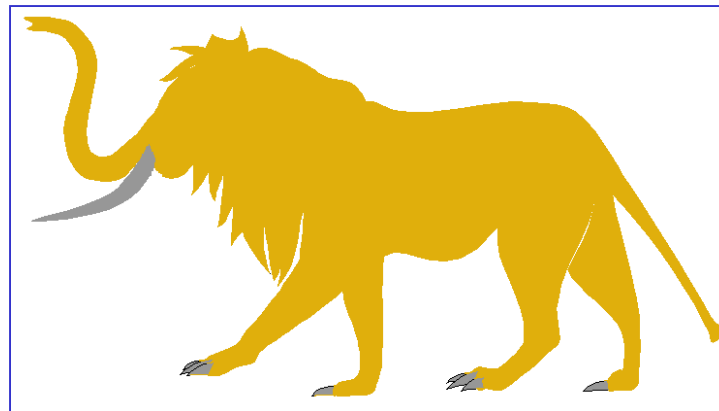
What is a Liophant ?

- It is a combination of an Elephant and a Lion
- It is a Mythological Being
- He is brave as a Lion and strong as a Elephant

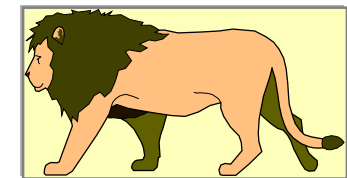
Elephant



Liophant



Lion



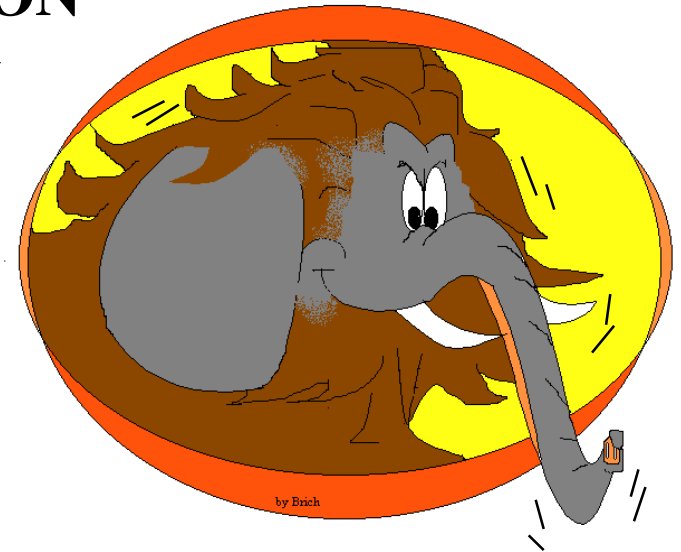
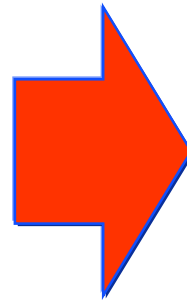


Why Liophant?

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



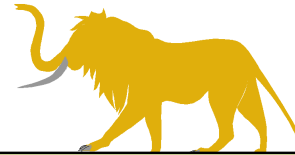
SIMULATION





Liophant Simulation

Attendance & Support to
Conferences World-Wide



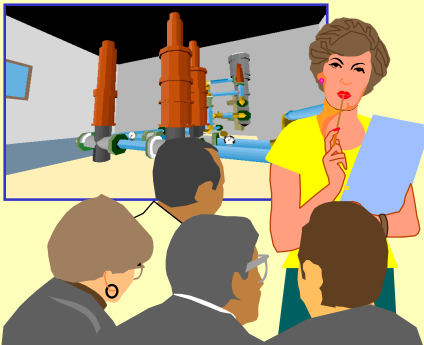
Social Events
& Simulation
Promotion



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

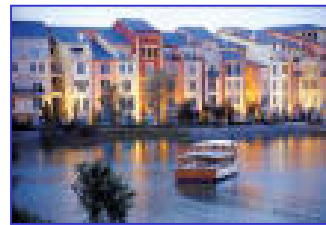
Dynamical Relationship between Liophant and Young Members in Industry

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 a classical event, after the editions in Rio de Janeiro, Riga, Genova, Portofino, Marseille, Bergamo.

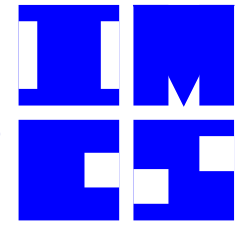


The Workshops were attended by worldwide experts in modelling & simulation applied to logistics.

Check www.liophant.org/hms2006 - www.liophant.org/mas2006

I3M: 3rd 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.

**I3M 2006 will
be held in
Barcelona**



EMSS2006

Sim Symposium

CSM2006

Conceptual M&S

HMS2006

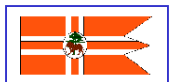
*Maritime and
Logistics*



IMAACA2006

*Applied Control &
Automation*

**EMSS
2006**



<http://www.i-m-cs.org/I3M2006>

Euro-SIW2007 Genoa June 18-21

The European Simulation Interoperability Workshop



This workshop will cover a wide range of modeling and simulation (M&S) issues, applications, and communities. The Workshop will include multiple tracks and special sessions addressing simulation interoperability issues and proposed solutions; tutorials on state-of-the-art methodologies, tools, and techniques; and exhibits presenting the latest technological advances.

**EURO-SIW 2007
will be held in
Genoa**



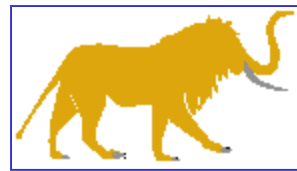
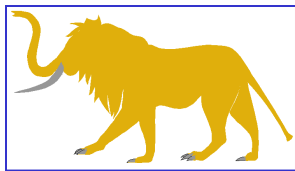
<http://www.eurosiw.org>

<http://www.sisostds.org>

Liophant Figures

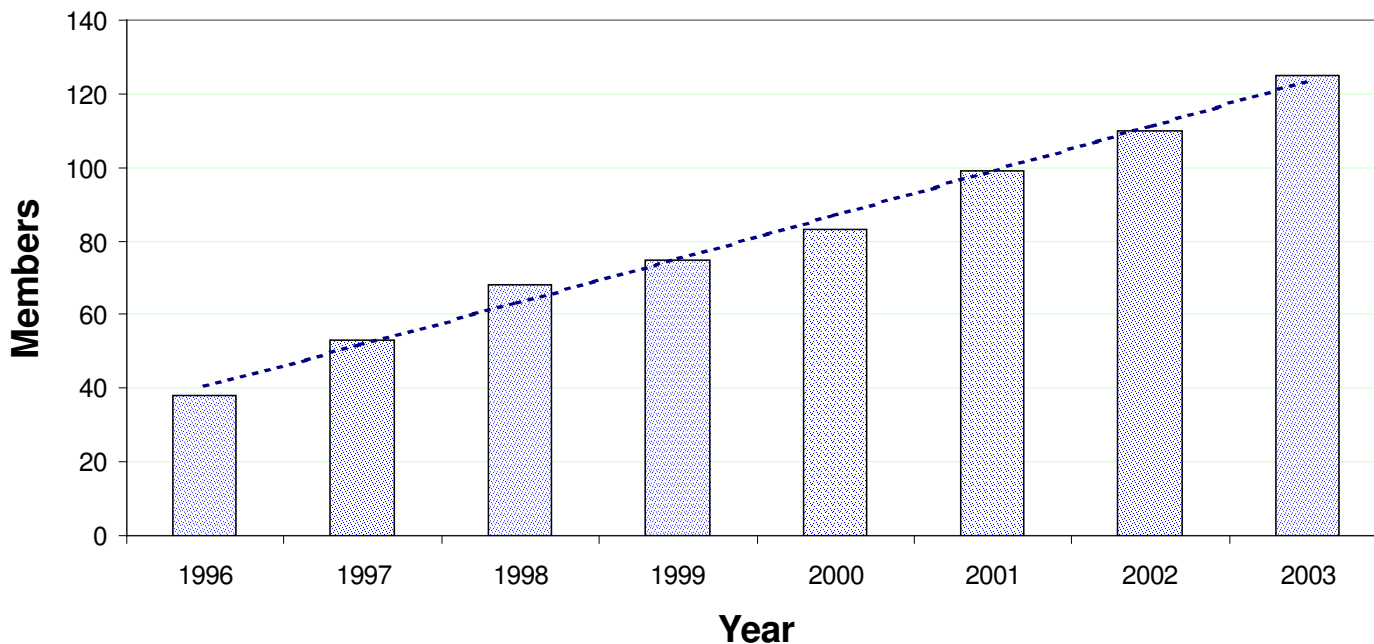
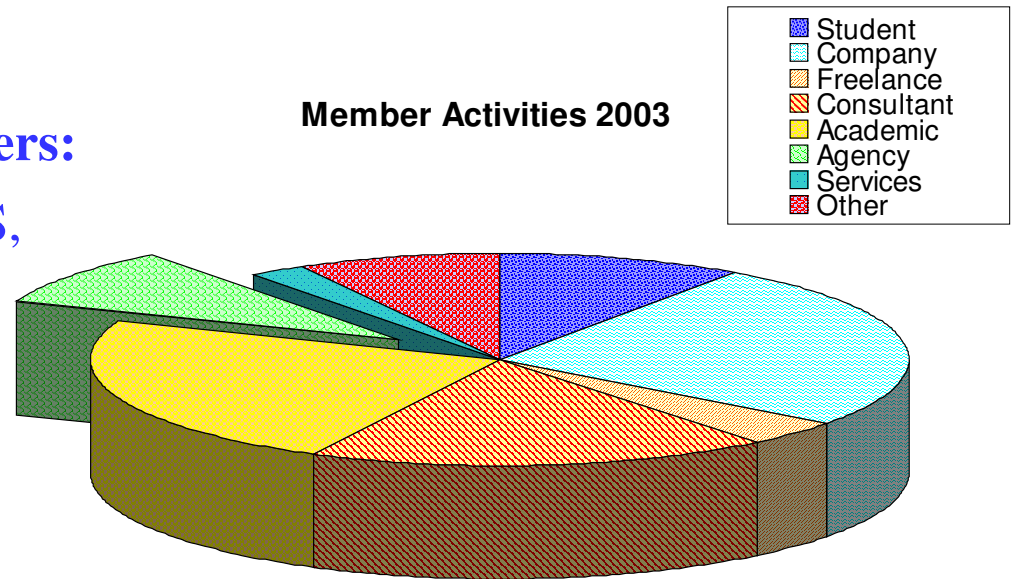
Services & Associations of the Members:

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



Liophant Members

Member Activities 2003

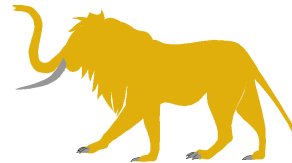


Example of Member Affiliations:
Accenture,
PMCorp
Exxon
Mckinsey
NASA,
COOP
IVECO
& SMEs

The International Activity of Liophant

1996

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



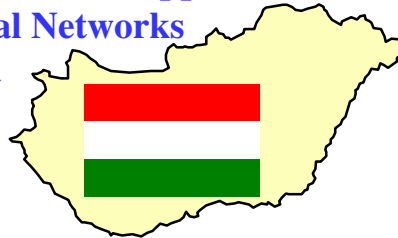
Student Activity



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

1997

Student Activity



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

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



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



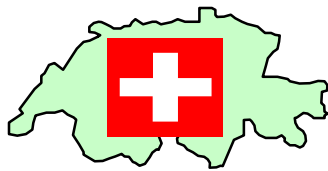
Phoenix 97, July
Health Care
System Survey
Wolf



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

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

ESS97, Passau, October
Pollution Control
Lorenzo Motta



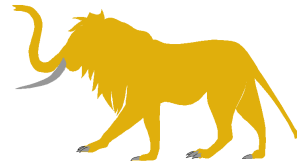
Student Activity

The International Activity of Liophant

ICAMES98, Istanbul, May

POSEIDON

A/Carbone, M.Lagostena, G.Tani



Summer Simulation

Reno 98, July

TQM

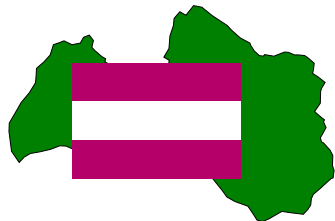
Filippo Paradiso



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, Manchester

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

Student Activity

ITEC98, Lausanne, June

Alessio Carbone, Roberto Revetria



The International Activity of Liophant

ICAMES99, Istanbul, May

MESA, WORM

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

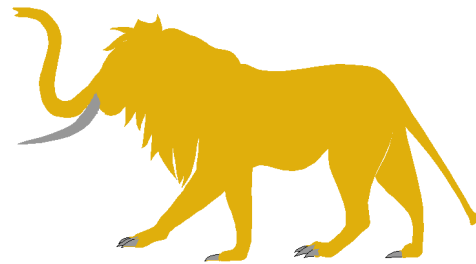
2nd & 3rd Best Projects Award



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



WMC99, San Francisco

Neural Networks - February

L.Motta

Winter Simulation Conf.



Phoenix, December

Roberto Revetria



Tallahasse, Nov-Dec

M.Mosca, F.Tonnelli



Orlando May / Nov-Dec

NCS & Nasa

S.Rapallo, A.Carbone



Washington, April

Pentagon

S.Rapallo



MIC99/AI99, Innsbruck, Feb

Automation & Simulation

M.Brandolini, C.Briano, E.Briano

Workshop HMS99

Genoa - September



ANIMP99, Ischia Oct.

S.Rapallo

Best Thesis Award



ITEC99

The Hague April

Project Management

A.Carbone, R.Revetria

Baraquilla, Dec.

Luca Patrone



New Mexico City, Nov.

Luca Patrone



NATO / Atlas

Bremen - Aug

VV&A

M.Brandolini



MISS - DIP University of Genoa



Liophant Simulation



The International Activity of Liophant

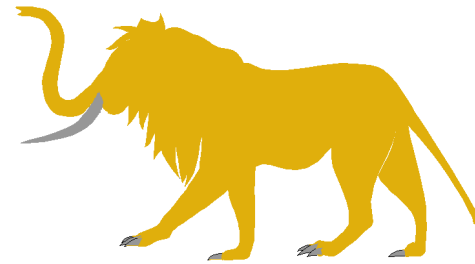
ICAMES2000, Istanbul, May

PUMA & GILA

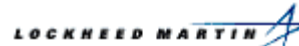
Simeoni, Fracchia, Pozzi C.,

Mantero, Vigano`, Diglio

1st Best Projects Award



Montreal, July
CAE Electronics
S.Simeoni



Montreal, August
Lockheed
Simeone Simeoni



Simulation Languages, Jul
CSUC
PozziCotto



WMC2000
San Diego, December
L.Motta



Orlando May / Nov-Dec
NCS & Nasa
Enrica Fracchia



Student Activity 2000

Workshop HMS2000
Portofino Oct.



ANIMP00, Trieste Oct.
Simeoni, Fracchia, Pozzi C.
Thesis Award



O1
Ostrava, Oct-Dec
Kindler (Patrone, Unali)

MIC00/AI00, Innsbruck, Feb
Automation & Simulation
M.Brandolini



ITEC00
The Hague April
Simulation for Education
R.Revetria

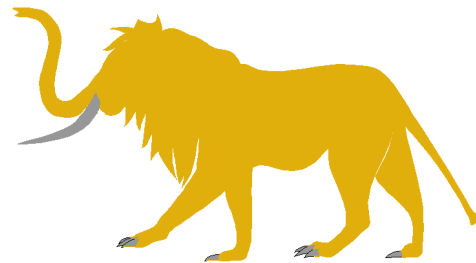
RTU, Baltic CT
Riga, Oct-Dec
Diglio & Mantero



Hamburg
ESS2000
October
Pozzicotto

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

Ford 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

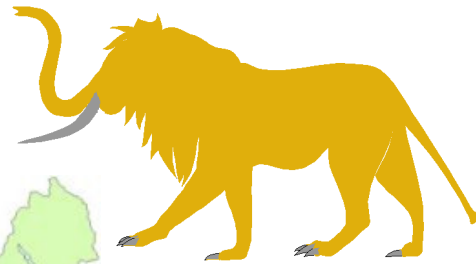


The International Activity of Liophant

ICAMES2002, Istanbul, May  

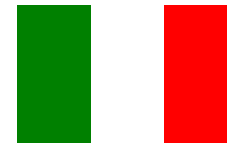
CHARME & ROSES

S.Simeoni, S. Viazzo, O. Serindat, F. Bertone
Best Projects Award



Professional &
Student Activity **2002**

Workshop HMS2002/MAS2002
Bergeggi, Oct.



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

CFLI

Consorzio Formazione Logistica Intermediale



MIC00/AI00, Innsbruck, Feb
Automation & Simulation

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



Dresden
A.Orsoni
S.Pozzi Cotto

Liophant Simulation



Creta,
A. Orsoni



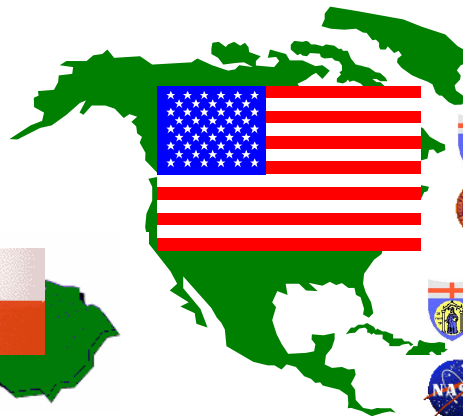
Sweden
December
S. Pozzi Cotto



Lisboa
A.Orsoni



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



Rio De Janeiro, UFRJ
December
Simeoni,
Bruzzone



UFRJ

RTU, LIS
Riga, June
R.Revetria



The International Activity of Liophant

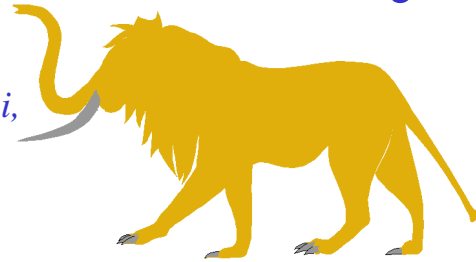
ICAMES2003, Istanbul, May

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.

IEPAL/IEEE
Genoa/Novara **CFIL**
E.Mantero, D.Carini
Over 26 students from USA, Germany, France, Turkey & Italy

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

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



DS-RT2003, ESS2003

Delft, October

P.Blomjous,,

van Houten



TU Delft



MIC03, Innsbruck, Feb
Agent Driven Simulation

E. Briano

Liophant Simulation



MISS - DIP University of

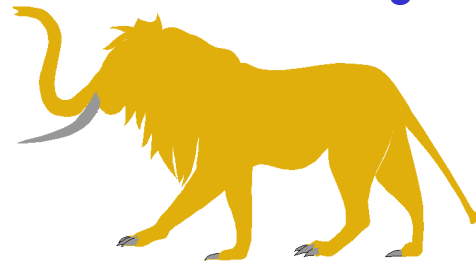


The International Activity of Liophant

ICAMES2004, Istanbul, May  

COMADREJA & SILLA2

F.Longo, D.Carini, A.Ganapini, M.Meistro,
S.Poggi - 1st Runner Award

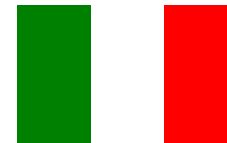


Exchange Activity **2004**
PhD, Master, BS

Workshop I3M2004/MAS2004
Bergeggi, Oct.



SimServ, Copenhagen
September, M.Massei



ST Genoa/Venice

S. Saavedra, R.Gallan,
J.Zumaglini, C.Bussi,
B.Jamel

Istituto Nacional de Atrofisica Optica Y Electronica
Universidad Popular Autonoma de Estado de Puebla
Universidad Popular Autonoma de Mexico
Istituto de Investigaciones Eletricas
Universidad Panamericana

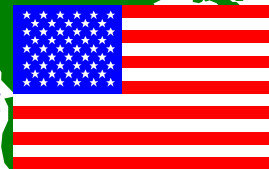


November-December
S.Simeoni

SCSC2005

San Jose`

July, S.Simeoni



Boston College

Boston , July-August
R.Moccia



VMASC, May

R.Revetria

University of
Maryland

November
G.Prioreschi

MBA, Darden
Alessio Carbone



HMS2004 LAMCE

Rio De Janeiro

September

A.Nogueira, S.Viazzi
M.Massei



SimServ
Helsinki

June

M.Massei

MBA, London
Business School, G.Oran



ITEC2004, London

May, F.Longo

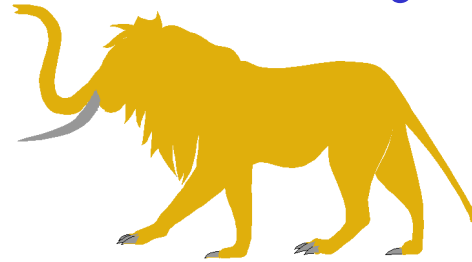


UFRJ



The International Activity of Liophant

ICAMES2005, Istanbul, May
 MACACO
 S.Poggi, K.Scarso, M.Massei



Exchange Activity
 PhD, Master, BS **2005**

Workshop MAS2005 Lerici HLA
 Bergeggi, Oct. E.Briano



Genoa University
 Savona
 S. Saavedra,
 Rathan Guha

NATO-ARW
 Tallin
 Briano



Universidad Panamericana
 Mexico City

November-December
 L.Bucchianica, A DiCostanzao, S. Rosa

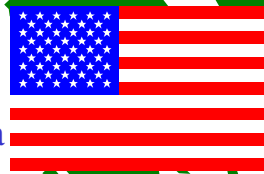


IASTED
 Cancun
 May
 F.Longo

Darmouth College
 July
 A.Salmoiraghi, E.Briano

Rutgers University ITEC2005, Amsterdam
 March-August May, E.Briano, E.Bocca
 F.Longo

SCSC2005
 Philadelphia
 July, E. Bocca
 F.Longo
 E.Briano.
 M.Massei



MBA, Darden
 Alessio Carbone

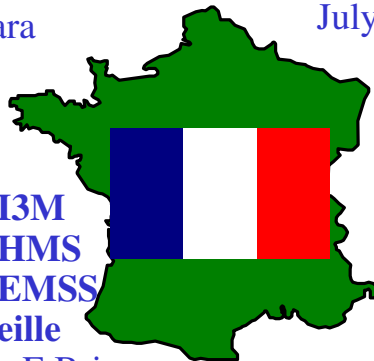


TESI2005
 Maastricht, March
 M.Massei

ECMS
 June, Riga, M.Ferrara



I3M
 HMS
 EMSS
 Marseille
 October, E.Briano



IFORS2005
 Honolulu, July Massei
 L.Bucchianica, A DiCostanzao, S. Rosa

Wintersim I/ITSEC
 Orlando, December

KSC, Orlando
 August, E.Bocca

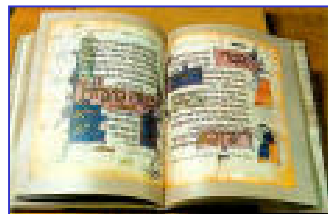
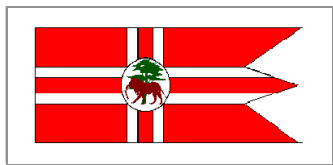


Liophant Simulation Libraries

ID	TITLE	Editor	Keywords
1	Systems Magazine Future Generation Computer Systems	IEEE Aerospace & Electronic North-Holland	Data Processing IT
2	Automazione	Jackson	Industrial Engineering
3	Rivista di Meccanica Oggi	Jackson	Industrial Engineering
4	Simulation News Europe	Eurosim	Simulation
5	Jane's Defence Weekly	Jane's	Military Industrial
6	Impiantistica Italiana	ANIMP Society for Computer	Engineering
7	Simulation Singapore Maritime & Port Journal 2001	Simulation MPA Singapore	Simulation 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 - JMAC	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 was established the Liophant Football Team by students from different Italian Genoa Universities



Liophant Football Team lays the Foundation Stone on Savona Campus Football History First Trophy Winner: 5-1

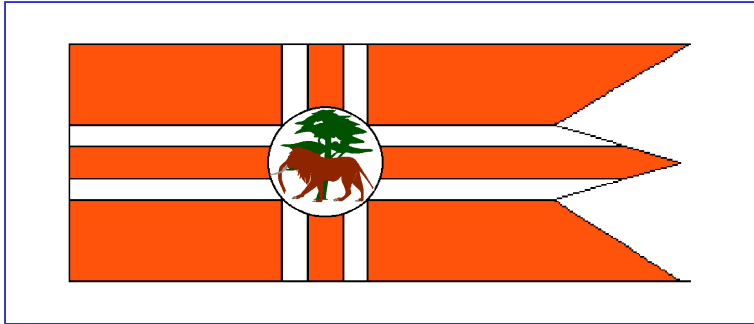
In 2005, the first edition of Savona Campus Trophy was set up and Liophant have won this football's ultimate prize, cementing their status as the most successful team in the history of the Campus. Liophant Football Team Captain accepted the trophy in an emotional prize-giving ceremony with his team and Club President in a Champagne waterfall (Veuve Cliquot for gossip columnist). In 2006 Liophant won again.



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
- M. Cerruto
- M. Ceruti
- F. Cilento
- G. Ciravegna
- A. Coppa
- S. Costa
- P. Costanzo
- G. Cotta
- E.G. Cuan
- G.G. Cunha
- R. Danio
- S. Dasgupta
- F. De Felice
- E. De Michelis
- A. Devoti .
- G. Diglio
- D. Erba
- L. Ferro
- F. Figini
- E. Fracchia
- C. Frydman
- L.M. Gambardella
- M. Genovese
- G. Garassino
- S. Genta
- G. Gestro
- N. Giambiasi
- D. Hill
- R. Huntsinger
- H. Karatza
- A. Riza Kaylan
- E. Kindler
- M. Lagostena
- L. Landau
- P. Lorenz
- E. Mantero
- M. Massei
- J. McLeod
- S. McLeod
- Y. Merkuriev
- G. Merkurieva
- MindRevolver.com
- Movimento Italiano Modellazione e Simulazione
- I. Molnar
- L.Montali
- S. Moretti
- M. Mosca
- L. Motta
- National Center for Simulation
- C. Neglia
- L. Novitzky
- G. Oran
- F. Paradiso
- L. Patrone
- L. Pelizzoni
- P. Perletto
- P. Petrova
- S. Pozzi Cotto
- P. Proshkov
- S. Rapallo
- L. Rava`
- R. Revetria
- R. Rinaldi
- A. Rizzoli
- A. Rocca
- B. Roetto
- I. Sabuncuoglu
- S. Saetta
- G. Salmoiraghi
- A. Scopinich
- Scuola di Guerra - Esercito Italiano - Civitavecchia
- C. Scuteri
- O. Serindat
- R. Signorile
- S. Simeoni
- A. Shmits
- M.A. Sobrio
- G. Tani
- T. Taymaz
- F. Tonelli
- D. Traverso
- A. Tremori
- M. Tucci
- A. Ungaro
- G. Vano
- L. Vernazza
- S. Viazzi
- S. Viazzo
- G. Vigano`
- F. Vio
- M. Vita
- E. Williams .
- A. Zini





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