Final Program

ESS'2001

18-20. October 2001
Hotel Mercure Marseille Centre, Marseille
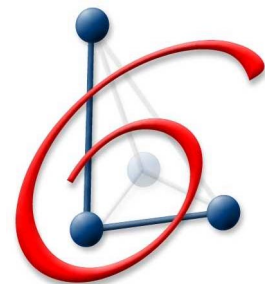

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Contents

General Information

1. Conference Location

The Conference is being held at the `Hotel Mercure Marseille Euro-Centre, Rue Neuve Saint Martin, Marseille, France`. Tel: +33.4.96.17.22.22 Fax: +33.4.96.17.22.33
The registration desk will be placed in the hallway on the ground floor on the Wednesday afternoon and will be on the first floor from Thursday morning onwards.. Registration will start on Wednesday, October 17, at 3.30 p.m. and on Thursday and Friday from 8.15 a.m. - 5.00 p.m. with Saturday registration only from 8.30 a.m.- 10.00. a.m.

ALL MAPS ARE AT THE BACK OF THIS PROGRAMME

2. Badges

Each registrant will receive a name badge upon registration. The badge must be worn, in order to be admitted to the technical sessions, lunches and social event.

3. Tickets

Extra tickets for the social event and lunches are available from the registration desk. Price: (or equivalent in another currency) for extra tickets

conference dinner:	30 EURO	

4.Registration

The ESS'2001 Registration Desk will be open for information and registration:

Wednesday, October 17 .... **3.00 p.m. to 5.30 p. m. on the Ground Floor**
Thursday, October 18 .... **8.15 a.m. to 5.00 p. m. on the 1st Floor**
Friday, October 19..................... **8.15 a.m. to 5.00 p. m. on the 1st Floor**
Saturday, October 20 .... **8.30 a.m. to 10.00 on the 1st Floor**

5. Conference Proceedings

Each fully paid registrant will be provided with a copy of the Conference Proceedings (printed format) **This is NOT applicable to students who are not authors**.
(Extra copies, are available on a cash and carry basis at special rates during ESS'2001)

Price:(or equivalent in another currency) for an extra copy

ESS'2001 Proceedings	**100 EURO**	**675 FF**
Other books & CD's	see desk	see desk

6. Meeting Rooms

The meeting rooms are on the 1st floor of the hotel.
Presentations in Room A are Methodology papers
Presentations in Room B are Application Papers
Presnetations in Room C are on Transport, Bondgraphs and Neural Networks
Presentations in Room D are on Ecology
Presentations in Room E are on DEVS
Presentations in Room F feature presentations on Agents and on Saturday
presentations on Transport and on Methodology

Rooms A and B will be available after the keynotes. They are the main hall split in two.

7. Need Help?

Please see the conference desk for your questions

8. Social Events and Lunches

All registrants are invited to
The **get-together party** on Wednesday October 17th at 5.30 p.m. at the hotel
All **lunches** are served at the restaurant of the Hotel Mercure
The Conference Dinner
All participants are invited to the conference dinner on Thursday the 18th of October. As we need to give an exact number of participants we would appreciate **your confirmation at the desk before Wednesday evening**. The address can be found in the programme

General Information

a. Best Paper Award

During the conference the papers, which were accepted as extended papers will be judged by the committee in order to choose the best paper of the ESS'2001 conference.

b. Paper Legend:

O= Overhead
SL= Slide Projector
LCD= Projector
VCR= Video
PC= PC

ALL SESSION CHAIRPERSONS IN THIS PROGRAM ARE PROVISIONAL

THE NUMBERS NEXT TO THE PRESENTATIONS DENOTE THE PAGE-NUMBERS IN THE PROCEEDINGS. IF NO NUMBERS ARE MENTIONED THEN THIS PAPER IS NOT PUBLISHED IN THE PROCEEDINGS

THE AUTHORS WHO ARE UNDERLINED ARE NORMALLY THE PRESENTERS

PAPERS IN GREY BOXES ARE THE EXTENDED PAPERS ELIGIBLE FOR THE BEST PAPER AWARD

CHECK OUT THE OTHER SCS EVENTS ON OUR WEBSITE:
http://hobbes.rug.ac.be/~scs

And

http://www.scs-europe.org

WEDNESDAY, 17th OCTOBER 2001

15.00-17.30	REGISTRATION
17.45-19.00	WELCOME PARTY

THURSDAY, 18th OCTOBER 2001

08.15-17.30	REGISTRATION					
09.00-10.00	OPENING SESSION AND KEYNOTE SPEECHES IN THE MAIN HALL					
10.45-11.15	COFFEE BREAK					
11.15-12.45	PARALLEL SESSIONS					
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E	ROOM F
	SIMULATION METHODOLOGY I	SIMULATION AND CONTROL I	SUPPLY CHAIN AND LOGISTICS SIMULATION I	VEGETATION AND ENVIRONMENT SIMULATION	TUTORIAL I INTRO TO DEVS	BOND GRAPH SIMULATION METHODOLOGY
12.45-14.00	LUNCH BREAK					
14.00-15.30	PARALLEL SESSIONS					
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E	ROOM F
	SIMULATION METHODOLOGY II	EVALUATION FORECAST-ING AND MONITORING SIMULATION I	SUPPLY CHAIN AND LOGISTICS SIMULATION II	ECOLOGY AND MULTIAGENT SYSTEMS I	TUTORIAL II MODELLING AND SIMULATION OF HYBRID SYSTEMS	MULTI-ELEMENT MODELLING
15.30-16.00	COFFEE BREAK					
16.00-18.30	PARALLEL SESSIONS					
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E	ROOM F
	SIMULATION TOOLS	PRODUCTION PROCESS PLANNING	TRANSPORT EVALUATION AND OPTIMIZATION SIMULATION	DISEASE AND INFECTION SIMULATION	MODELLING METHODOLOGY I	INDUSTRIAL MODELLING I

20.00 CONFERENCE DINNER

FRIDAY, 20th OCTOBER 2001						
08.15-17.00	REGISTRATION					
08.30-10.00	PARALLEL SESSIONS					
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E	ROOM F
	DISCRETE EVENT SIMULATION I	SIMULATION AND CONTROL II	BACK-UP SESSION	VEGETATION AND ENVIRONMENT SIMULATION	TUTORIAL III DEVS IN SIMULATION AND CONTROL	MODELLING AND SIMULATION OF SOCIO-TECHNICAL SYSTEMS
10.00-10.30	COFFEE BREAK					
10.30-12.30	PARALLEL SESSIONS					
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E	ROOM F
	DISCRETE EVENT SIMULATION II	SIMULATION ON THE FACTORY FLOOR	INDUSTRIAL MODELLING WITH BOND GRAPHS	MATHEMATI-CAL MODELLING	DEVS MODELLING ENVIRON-MENTS I	SOCIAL MODELLING AND SIMULATION
12.30-14.00	LUNCH BREAK					
13.30-15.30	PARALLEL SESSIONS					
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E	ROOM F
	PARALLEL AND DISTRIBUTED SIMULATION I	SIMULATION IN ELECTRONICS	NEURAL NETWORKS METHODO-LOGY	VR FOR ECOLOGY	DEVS APPLICATIONS	MODELLING AND SIMULATION OF TRANSPORT AND SUPPLY CHAINS
15.30-16.00	COFFEE BREAK					
16.00-19.00	PARALLEL SESSIONS					
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E	ROOM F
	PARALLEL AND DISTRIBUTED SIMULATION II	MECHANICAL SIMULATION	NEURAL NETWORKS APPLICATIONS	SIMULATION AND VR	URBAN MULTI-MODAL TRANSPORT SIMULATION	MODELLING AND SIMULATION OF MANUFACTU-RING SYSTEMS
	FREE EVENING					

SATURDAY 20th OCTOBER 2001						
08.30-10.00	REGISTRATION					
08.30 10.00	PARALLEL SESSIONS					
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E	ROOM F
	FAULT DETECTION	BACK-UP SESSION	EVALUATION, FORECASTING AND MONITORING SIMULATION II	ECOLOGY AND POLUTION SIMULATION	DEVS MODELLING ENVIRON-MENTS II	URBAN MULTIMODAL TRANSPORT SIMULATION II
10.00-10.30	COFFEE BREAK					
10.30 13.00	PARALLEL SESSIONS					
	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E	ROOM F
	APPLIED SIMULATION TECHNIQUES	SIMULATION CASE STUDIES	EVALUATION, FORECASTING AND MONITORING SIMULATION III	ECOSYSTEM MANAGEMENT MODELLING AND SIMULATION	DEVS MODELLING METHODOLOGY II	MULTIBODY SIMULATION
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13.30- 14.30	LUNCH BREAK					
14.30 - 18.00	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E	ROOM F
			SCS MEETING			DEVS STANDARDIZATION MEETING

Wednesday, 17th October 2001

HALLWAY

Registration

15.00 - 17.30

17.45 - 19.00

ESS'2001 GET-TOGETHER-PARTY

Thursday, 18th October 2001

HALLWAY

Registration

08.15 - 17.30

MAIN HALL

09.00 - 09.15

Opening ESS2001 and Welcome

Welcome Address

Dr. Norbert Giambiasi
DIAM-IUSPIM
ESS'2001, General Conference Chair

Dr. Claudia Frydman
DIAM-IUSPIM
ESS'2001 General Program Chair

Dr. Alexander Verbraeck
Delft University of Technology
SCS ESS Conference Coordinator

Welcome

Thursday, 18th October 2001

MAIN HALL

09.15 - 10.00

KEYNOTE SPEECH
Chair: Norbert Giambiasi, DIAM-IUSPIM, Marseille, France
A New Era in Complex Information Technology System Design: Bootstrapping Modelling and Simulation with FPGA-Based Hardware Synthesis
Sumit Ghosh

10.00 - 10.45

KEYNOTE SPEECH
Chair: Norbert Giambiasi, DIAM-IUSPIM, Marseille, France
Simulating Autonomous Agents with Augmented Reality
Erol Gelenbe, Khaled Hussain and Varol Kaptan

10.45 - 11.15
COFFEE BREAK

11.15 – 12.45

ROOM A- 11.15-12.45   **METH**
SIMULATION METHODOLOGY I
Chair: Claudia Frydman, DIAM-IUSPIM, Marseille Cedex, France

METH-3-O
Genetic Identification of Structured Systems (GISS)
César Zamilpa, Claude Baron, Jean-Claude Geffroy 7

METH-14-O
A Conceptual Approach to Non-Linear Identification and Modeling Based on Expert Systems
Kirill Chernyshov.. 12

METH-16
Reuse Oriented Prototyping Methodologies for Systems on Chips
M.Robert, L.Torres G.Sassatelli and G.Cambon 17

ROOM B- 11.15-12.45   **APP**
SIMULATION AND CONTROL I
Chair: to be announced later

APP-6
Application of the B-BAC methodology to the LabView-Based Virtual Controller
Jacek Czeczot 197

APP-9
Simulation Based Evaluation of PI, PFC and GMC Control for Electric Heater
Piotr Laszczyk 202

APP-28-O
Modular Testing of Logic Control Functions with Matlab
Emanuele Carpanzano, Luca Ferrarini and Claudio Maffezzoni 206

Parallel Sessions - Thursday

Thursday, 18th October 2001

ROOM C- 11.15-12.45   **TRANS**
SUPPLY CHAIN AND LOGISTICS SIMULATION I
Chair: Agostino Bruzzone, Univ.of Genoa, Genoa, Italy

ROOM D- 11.15-12.45   **ECO**
VEGETATION AND ENVIRONMENT SIMULATION I
Chair: Philippe Laval, CNRS, Villefranche sur Me, France

Thursday, 18th October 2001

ROOM E- 11.15-12.45   **DEVS**
DEVS TUTORIAL I

DEVS-TUT-I
An Introduction to the DEVS Formalism
Tag Gon Kim

ROOM F- 11.15-12.45   **BOND**
BONDGRAPH METHODOLOGY
Chair: Jacques LeFevre, Ecole Centrale Lille, Villeneuve d'Ascq, France

12.45 - 14.00
LUNCH BREAK

14.00 – 15.30

ROOM A- 14.00-15.30   **METH**
SIMULATION METHODOLOGY II
Chair: Bernard Espinasse, DIAM-IUSPIM, Marseille, France

Thursday, 18th October 2001

AGENT-25-METH-O
Real-Time Simulation of PH-Process for Comparative Evaluation of PI, GMC and FPC Algorithms

METH-26
Variables and Equations in Hybrid Systems with Structural Changes

ROOM B- 14.00-15.30   APP
EVALUATION, FORECASTING AND MONITORING SIMULATION I
Chair: Richard Zobel, Manchester University, Manchester, UK

APP-23
Simulation of an Harvester Production System

APP-10-O
An Optimal Policy for Supply Planning of Assembly Systems with Service Level Constraint

APP-3-TRANS
Evaluation of Machine Shop Logistic Alternatives using Simulation

ROOM C- 14.00-15.30   TRANS
SUPPLY CHAIN AND LOGISTICS SIMULATION II
Chair: Agostino Bruzzone, University of Genoa, Genoa, Italy

TRANS-18-O
An Instructive Example for Pitfalls in Simulation of Logistic Networks

TRANS-21-O
Model Based Training Methodology in Logistics Information Systems

TRANS-1-APP
An Integer Linear Model for General Arc Routing Problems

Thursday, 18th October 2001

ROOM D- 14.00-15.30   **ECO**
ECOLOGY AND MULTI-AGENT SYSTEMS
Chair: Patrick Coquillard, Univ.de Clermont Ferrand, France

ROOM E- 14.00-15.30   **DEVS**
DEVS TUTORIAL II

DEVS TUTORIAL II
Modeling and Simulation of Hybrid Dynamic Structure Systems in the HFSS Formalism
Fernando Barros

ROOM F- 14.00-15.30   **BOND**
MULTI-ELEMENT MODELLING
Chair: Genevieve Dauphin-Tanguy, ECL, Villeneuve, France

Parallel Sessions - Thursday

Thursday, 18th October 2001

BOND-16
Modeling Multi-Element Systems Using Bond Graphs

BOND-7
3D Kite Modeling with Vector Bond Graphs

15.30 - 16.00
COFFEE BREAK

16.00 - 18.30

ROOM A- 16.00-18.00   **METH**
SIMULATION TOOLS
Chair: Wilfried Krug, Dualis, Dresden, Germany

METH-4-BOND-O-LCD
Kinetic Process Graphs: Improving the Stock Flow Method of System Dynamics with Quasi-Bond Graphs and Fuzzy Rules, Applications in Managing Industrial and Business Systems

METH-18-BOND
Linearization of the Bond Graph Model of a Robot RTX

METH-32
Simulation and Knowledge Management: The Role of Groupware

METH-43-LCD
The Use of Building Blocks to enhance Flexibility and Maintainability of Simulation Models and Simulation Libraries

Thursday, 18th October 2001

ROOM B- 16.00-18.00   **APP**

PRODUCTION PROCESS PLANNING

Chair: Claudia Frydman, DIAM-IUSPIM, Marseille Cedex, France

ROOM C- 16.00-18.30   **TRANS**

TRANSPORT EVALUATION AND OPTIMIZATION SIMULATION

Chair: Agostino Bruzzone, Univ.of Genoa, Genoa, Italy

Parallel Sessions - Thursday

Thursday, 18th October 2001

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Teruaki Ito **462**

ROOM D- 16.00-17.30   **ECO**
DISEASE AND INFECTION SIMULATION
Chair: M.A.Dubois, SPEC Saclay, Gif sur Yvette, France

ECO-6-O
Simulation of Stochastic Infection Transmission Models designed to inform Water Treatment Decisions
Sada Soorapanth, Stephen E. Chick, and James S. Koopman **517**

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Computer Simulations for an SEIRS Epidemic Model with Different Types of Seasonal Contact Rate
David Greenhalgh and Islam A. Abdel- Moneim **522**

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Mathematical Modeling of Rift Valley Fever in Senegal
Marc A.Dubois, Charly Favier and Philippe Sabatier **530**

ROOM E- 16.00-17.30   **DEVS**
MODELLING METHODOLOGY I
Chair: Tag Gon Kim, KAIST, Taejon, South Korea

DEVS-13-BOND
GDEVS-Bond Graph Variable Structure Models
Aziz Naamane and Norbert Giambiasi **601**

DEVS-19-LCD
Modelling and Simulation of Mobile Software Agents in *Caos*
Fernando J.Barros **605**

DEVS-12-LCD
DHMIF: DEVS-based Hardware Model Interchange Format
Jun-Kyoung Kim, Young Geol Kim and Tag Gon Kim **622**

ROOM F- 16.00-18.00   **BOND**
INDUSTRIAL MODELLING I
Chair: Yuri Merkuryev, Riga Technical University, Riga, Latvia

BOND-2
Modelling Gas Turbine Systems for Transient Performance using Bond Graphs
Eilif Pedersen 785

BOND-4-SL
Virtual Reality Full Simulator for Electrical Sub-Stations using Word Bond Graphs
Jesus Félez, Jose M.Cabanellas, Maria I. Martinez, Antonio Carretero, Gregorio Romero,
Joaquin Maroto and Carlos Vera.. 792

BOND-14-LCD
Trajectory Tracking on Bond Graphs: Procedures and Applications to DC Electrical Drives
Sergio Junco 799

BOND-11-LCD
Modeling In Order to Size An Automotive Powertrain[1]
J. Laffite, J. Bideaux, S. Scavarda, F. Guillemard, M. Ébalard and C. Moutou 806

19.30
assembly in the lobby of the hotel

20.00 (dinner starts)
ESS 2001 Conference Dinner
At
Les Arcenaux
25, Cours d'Estienne D'Orves
Marseille
Tel: +33.(0)4.91.59.80.30

Friday, 19th October 2001

HALLWAY

Registration

08.15 - 17.00

08.30 – 10.00

ROOM C- 08.30-10.00 **AGENT**
MODELLING AND SIMULATION OF SOCIOTECHNICAL SYSTEMS WITH AGENTS
Chair: Bernard Espinasse, DIAM-IUSPIM, Marseille Cedex, France

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AGENT-2-O-LCD

Enhancing the Interaction between a Photovoltaic System and Its Users with a Sociotechnical Simulation Approach

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AGENT-9

MAGMAS: a Multi-Agents System based on a Dynamical Models coupling; Application to Animal Wastes Management

AGENT-14

MUFINS : A MultiAgent Toolkit for Simulating Pelagic Fish Behavior in Distributed Multiple Environments

ROOM D- 09.00-10.00 **ECO**
VEGETATION AND ENVIRONMENT SIMULATION II
Chair: David Hill, Universite Blaise Pascal, Aubiere Cedex, France

ECO-1-LCD

SISTAL: A Spatial Simulation Model of the Tiller Density in Monospecific Stands of a Perennial Grass

ECO-2

Virtual Plant Models for studying Interactions between Crops and Environment

ROOM E- 08.30-10.00 **DEVS**
DEVS TUTORIAL III

DEVS-TUT-I
DEVS in Simulation and Control of Continuous Systems
Ernesto Kofman

Parallel Sessions - Friday

Friday, 19th October 2001

ROOM F- 09.00-10.00   **BACK-UP**
BACK-UP SESSION
Chair: to be announced later

This session is set up for those authors who could not present their papers in the allocated time-slots.

10.00 - 10.30
COFFEE BREAK

10.30 – 12.30

ROOM A- 10.30-12.30   **METH**
DISCRETE EVENT SIMULATION II
Chair: Eugene Kerckhoffs, TU Delft, Delft, The Netherlands

ROOM B- 10.30-12.30   **APP**
SIMULATION ON THE FACTORY FLOOR
Chair: Alexander Verbraeck, TU Delft, Delft, The Netherlands

ROOM C- 10.30-12.00   **BOND**
INDUSTRIAL MODELLING II
Chair: Sergio Junco, National University of Rosario, Argentina

ROOM D- 10.30-12.30   **ECO**
MATHEMATICAL MODELLING
Chair: M.K.Traore, Universite Blaise Pascal, Aubiere Cedex, France

Parallel Sessions – Friday

Friday, 19th October 2001

ROOM D- 10.30-12.00   **DEVS**
MODELLING ENVIRONMENTS I
Chair: Norbert Giambiasi, IADM-IUSPIM, Marseille, France

ROOM E- 10.30-12.30   **AGENT**
SOCIAL MODELLING AND SIMULATION WITH AGENTS
Chair: Quasim Mehdi, Univ.of Wolverhampton, Wolverhampton, UK

AGENT-5-LCD
An Agent-Based Approach of Urban Migration Flows

AGENT-10
Changing the Levels of Description of a Fluid Flow in an Agent-Based Simulation

ECO-3-AGENT-29-LCD
How a Conceptual Framework can help to Design Models following decreasing Abstraction

12.30 - 14.00
LUNCH BREAK

13.30 - 15.30

ROOM A- 14.00-15.30   **METH**
PARALLEL AND DISTRIBUTED SIMULATION I
Chair:

METH-8
Controlling Optimistic Execution in Bulk-Synchronous Parallel Discrete-Event Simulation

METH-44
A Distributed Parallel Architecture using Client Server Model for Parameter Tracking Algorithms

METH-13
Using Simulation to Evaluate Decisive Action in Distributed Denial of Service Attack

Parallel Sessions - Friday

Friday, 19th October 2001

ROOM B- 14.00-15.30   **APP**
SIMULATION IN ELECTRONICS AND SOFTWARE SERVICES
Chair: to be announced later

ROOM C- 14.00-15.30   **NEURAL**
METHODOLOGY
Chair: Jacob Bahren, Oak Ridge National Lab, TN, USA

ROOM D- 14.00-15.30   **ECO**
VIRTUAL REALITY FOR ECOLOGY
Chair: Carlos Luiz dos Santos, UFR, Riode Janeiro, Brazil

ECO-12
The M3-Project: Distributed Environmental Simulation and Virtual Reality
T.Asselmeyer-Maluga, P.Frank, A.Hoheisel, H.Rosé and B.Walter 573

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Carlos Luiz N. dos Santos, Jose L.D. Alves and Luiz Landau 578

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Robson de Cunha Santos, Gerson Gomes Cunha, Maria Célia Santos Lopes and Nelson Francisco Favilla Ebecken 582

ROOM E- 14.00-15.30   **DEVS**
APPLICATIONS
Chair: Ernesto Kofman, Rosario, Argentina

DEVS-7-LCD
Vehicle Routing Techniques in Cellular Models of Urban Traffic
Andrea Díaz, Verónica Vázquez and Gabriel Wainer 657

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Modelling and Simulation of Industrial Accidents based on the DEVS Formalism
Jean-Marc Mercantini, Ronald Loschmann and Eugene Chouraqui.................................... 662

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Use of the Visual-DEVS Simulation Tool for Modeling Electronic Transactions Systems
Iván Melgrati, Carlos Giorgetti and Ana Rosa Tymoschuk.. 667

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MODELLING AND SIMULATION OF TRANSPORT AND SUPPLY CHAINS WITH AGENTS
Chair: Robert Signorile, Boston College, Boston, USA

AGENT-3
Modelling and Simulation of Supply Chains with a Multi Agent System
Alain Ferrarini, Olivier Labarthe and Bernard Espinasse 893

Parallel Sessions - Friday

Friday, 19th October 2001

15.30 - 16.00
COFFEE BREAK

16.00 - 19.00

ROOM A- 16.00-18.00   **METH**
PARALLEL AND DISTRIBUTED SIMULATION II
Chair: Claudia Frydman, DIAM-IUSPIM, Marseille Cedex, France

Friday, 19th October 2001

ROOM B- 16.00-18.30 **APP**
MECHANICAL SIMULATION
Chair: A. Naamane, DIAM-IUSPIM, Marseille Cedex, France

ROOM C- 16.00-19.00 **NEURAL**
APPLICATIONS
Chair: Claude Touzet, University of Province, Marseille, France

Friday, 19th October 2001

ROOM D- 16.00-18.00   **APP**
SIMULATION AND VIRTUAL REALITY
Chair: Richard Zobel, Manchester University, Manchester, UK

ROOM E- 16.00-18.30   **TRANS**
URBAN MULTIMODAL TRANSPORT SIMULATION I
Chair: Andre Bargiela, Nottingham Trent Univ, Nottingham, UK

ROOM E- 16.00-18.30   **AGENT**
MODELLING AND SIMULATION OF MANUFACTURING SYSTEMS WITH AGENTS
Chair: Alexander Verbraeck, TU Delft, Delft, The Netherlands

Friday, 19th October 2001

FREE EVENING

Saturday, 20th October 2001

HALLWAY

Registration

08.30 - 10.00

08.30 – 10.00

ROOM A- 09.00-10.00   **BOND**
FAULT DETECTION
Chair: François Cellier, University of Arizona, Tucson, USA

BOND-1-LCD
Application of Fault Detection and Isolation Mechanisms to Filling Batteries Devices System Modelled by Bond Graph and Petri Nets

BOND-10
Design of Failure Diagnosis System Based on System Bond Graphs

ROOM B- 09.00-10.00   **BACK-UP**
BACK-UP SESSION
Chair:

This session is set up for those authors who could not present their papers in the allocated time-slots.

ROOM C- 09.00-10.00   **APP**
EVALUATION, FORECASTING AND MONITORING SIMULATION II
Chair: Alexander Verbreack, TU Delft, Delft, The Netherlands

APP-19
Simulation Analysis of an Integrated Cross-Factory Process: A Case Study

APP-40-O
Planning Production Forecasting for Manufacturing SME: An Application Based on Autosched^{TM} Tool

Parallel Sessions - Saturday

Saturday, 20th October 2001

ROOM D- 09.00-10.00   **ECO**
ECOLOGY AND POLLUTION
Chair: William Conley, Univ.of Wisconsin at Green Bay, USA

ROOM E- 09.00-10.00   **DEVS**
MODELLING ENVIRONMENTS II
Chair: Fernando Barros, Universidade do Coimbra, Coimbra, Portugal

ROOM F- 09.00-10.00   **TRANS**
URBAN MULTIMODAL TRANSPORT SIMULATION II
Chair: Yuri Merkuryev, Riga Technical University, Riga, Latvia

10.00 - 10.30
COFFEE BREAK

Saturday, 20th October 2001

10.30 - 13.00

ROOM A- 10.30-12.30   **METH**
APPLIED SIMULATION TECHHNIQUES
Chair: Carmen Bobeanu, Ghent University, Ghent, Belgium

ROOM B- 10.30-12.30   **METH**
SIMULATION CASE STUDIES
Chair: Andre Bargiela, Nottingham Trent University, Nottingham, UK

Parallel Sessions - Saturday

Saturday, 20th October 2001

ROOM C- 10.30-12.30   **APP**
EVALUATION, FORECASTING AND MONITORING SIMULATION III
Chair: Vlatka Hlupic, Brunel University, Oxbridge, United Kingdom

ROOM D- 10.30-13.00   **AGENT**
ECOSYSTEM MANAGEMENT MODELLING AND SIMULATION WITH AGENTS
Chair: Bernard Espinasse, DIAM-IUSPIM, Marseille Cedex, France

AGENT-28-2
Modeling Human Decision Making in the Hyrdaulic Management of the Camargue

AGENT-13
OSIRIS System: An Architecture for coupling Environmental Processes with Agents

AGENT-7-O-LCD
Multi-Agent Based Modelling to Change the Environmental Behaviour of a Population of 10,000 Persons

ROOM E- 10.30-12.30   DEVS
MODELLING METHODOLOGY II
Chair: Gabriel Wainer, Carleton University, Ottawa, Canada

DEVS-1
DEVS Representation of Differential Equation Systems: Review of Recent Advances

DEVS-10
Using a DEVS Simulator for the Recognition of Chronicles: An Example with the ELP Language

DEVS-18
Min-Max DEVS: A New Formalism for the Specification of Discrete Event Models with Mix-Max Delays

DEVS-15-LCD
Abstract Simulators for Continuous Flow Specified Systems

Saturday, 20th October 2001

ROOM F- 10.30-13.00   **APP**
MULTIBODY SIMULATION
Chair: Claudia Frydman, DIAM-IUSPIM, Marseille Cedex, France

ROOM A 13.15 - 13.30   **BEST PAPER**
CLOSING SESSION AND BEST PAPER AWARD
Chair: Norbert Giambiasi, DIAM-IUSPIM, Marseille Cedex, France

13.30 - 14.30
LUNCH BREAK

Saturday, 20th October 2001

14.30 - 18.00

ROOM C- 14.30-18.00   **SCS**
SCS CONFERENCE BOARD AND COUNCIL MEETING

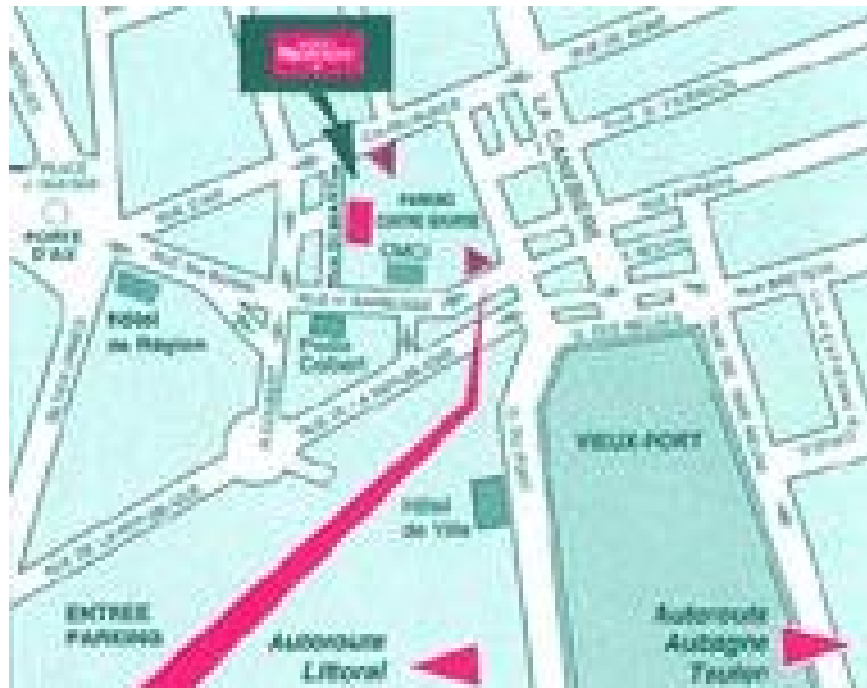**ROOM F- 14.30-16.00**   **DEVS**
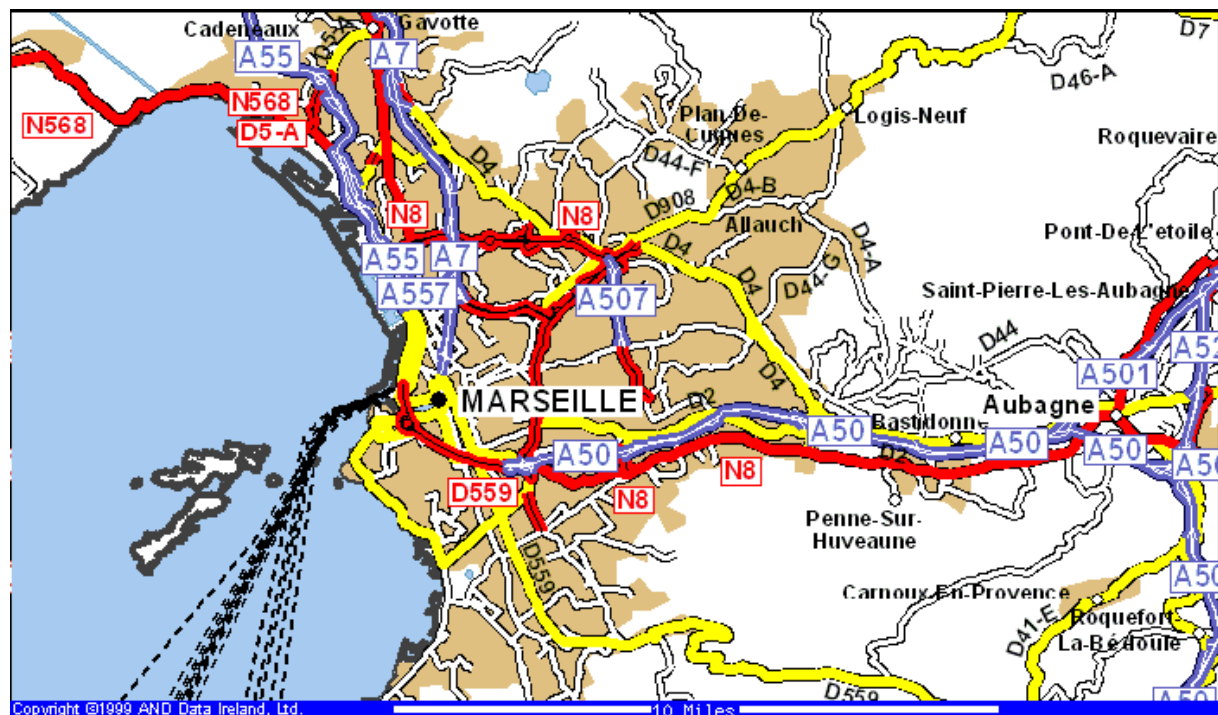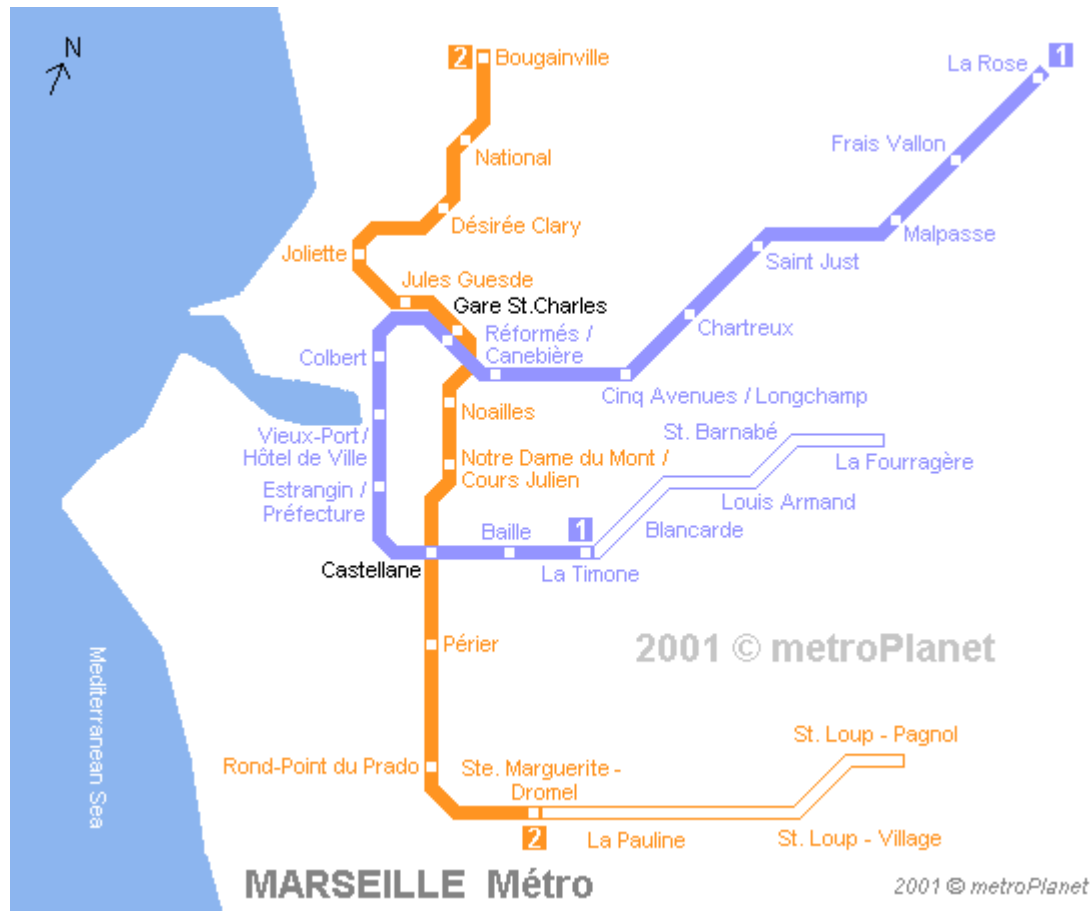**MEETING OF THE DEVS STANDARDIZATION GROUP**
Chair:

Parallel Sessions - Saturday

Conference Site Maps

Conference Site Maps

MARSEILLE Métro

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Conference Site Maps

Conference Site Maps

Since our founding in 1952, The Society for Computer Simulation's membership roster has been made up of engineers, scientists, managers, business professionals, students, and educators. A very diverse field whose interests include: artificial intelligence, microcomputers in simulation, methodology and validation, supercomputers, and more.
With this in mind, the editors of SCS have created two publications to cover these areas of interest. Our members receive the monthly journal SIMULATION. This journal is filled with up-to-the-minute technical articles, industry news, editorials, an AI column, calendar of events, conference information, and much more. Advertising is supplied by the industry leaders, and short courses and classified ads are an integral part of this journal.
Our members also receive a 60% discount on TRANSACTIONS of the Society for Computer Simulation International, our quarterly journal. This journal is a highly-refereed, scholarly journal that presents papers dealing with theoretical and practical applications of archival value. It is an excellent review board whose critical expertise insures the quality of the publication.
In addition we also publish the Directory of Simulation Software, Publication Catalogs, Conference Proceedings, and a long list of conference information to keep our members informed.

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