



Sim-Serv Working Group Roadmap for Continuous and Hybrid Simulation (ROADMAP-PI)

Wednesday 14.7.2004

University of Patras, Greece

Those present:

Nicos Karcianas, City University of London, UK (Chairman of the meeting)

Chrysostomos Stylios, University of Patras, Greece

Martin Newby, City University of London, UK

David W Stupples, City University of London, UK

Heikki Koivo, Helsinki University of Technology, Finland

Peter Ylen, Virable Ltd, Finland

Esko Juuso, University of Oulu, Finland

Antonis Kokossis, University of Surrey, UK

Dia Milioti, City University of London, UK

Konstantinos Karaoulis, City University of London, UK

Petros Groumpos, University of Patras, Greece

Anthony Tzes, University of Patras, Greece

Nick Koussoulas, University of Patras, Greece,

John Lygeros, University of Patras, Greece

Dave Boland, City University of London, UK

Konstantinos Giannopoulos, City University of London, UK

Karri Honkoila, VTT Industrial Systems, Finland (Secretary of the meeting)

Agenda:

10.15-11.00 Introduction and general discussion

11.00-12.30 Review of road map activities

12.30-13.00 Discussion

13.00-14.00 Lunch

14.00-15.00 Roadmap: Additional tasks

15:00-17:30 New initiatives

Opening of the meeting

Chairman Nicos Karcianas opened the meeting and wished all participants welcome.

This working group was established within Sim-Serv project. The results of the work will be ready by October 2004 when the Sim-Serv project ends. The purpose of the group is to specify the fundamentals for future research in the field of continuous and hybrid simulation. The objective of the group is to identify the needs for research in the wider area of the complex systems and provide input to the shaping of ideas for FP7 program.

All the participants briefly introduced themselves.

Overview of the road mapping progress

Nicos Karcantias presented the status of the road mapping initiative. He presented all the topics of the white papers and the responsible persons and status of the work. The white papers will look at different aspects within continuous, hybrid simulation and Complex Systems problems. The white papers, their authors, status and actions are:

#	Title	Author	Status	Action
1	INFORMATION AND DECISION MAKING STRATEGIES AND ORGANISATION	Duncan McFarlane	The paper is not yet ready. This is important paper and it need to be included in the deliverable.	Nicos Karcantias (N.K) will follow this up.
2	HETEROGENEOUS PROCESSES AND MODELLING	Nicos Koussolas	The paper has been revised and it is ready.	Publish
3	MODELLING POWER AS A UTILITY	Antonis Kokossis	The paper has been revised and it is ready.	Publish
4	CHALLENGING PARADIGMS IN MODELLING AND SIMULATION	Heikki Koivo	The paper is ready.	Publish
5	MODELLING METHODOLOGY AND ISSUES	Berc Rustem Esko Juuso	There is first version but it is not on the expected level. Will be included in revised form if it is submitted in time. An alternative paper was presented by Esko Juuso on AI and Simulation and this will be included in the final list.	Nicos Karcantias (N.K) will follow this up.
6	Process Monitoring: Control and Decision	Martin Newby	The paper was presented, but it had a very specialized nature to be included in the final collection of white papers.	Nicos Karcantias (N.K) will follow this up.

7	Evolving Complex Systems	David Stupples	The presentation was given and the paper will follow.	Nicos Karcianas (N.K) will follow this up.
8	EXPLOITATION OF MODELLING AND BUSINESS DRIVERS	Calum Forsyth and Dave Boland	The paper is being prepared and it is in a final form. Dave Boland presented it.	Nicos Karcianas (N.K) will follow this up.
	EMERGING CHALLENGES IN MODELLING AND SIMULATION	Nicos Karcianas	The paper is being prepared.	N.K.

Final papers will be published in white paper gallery and Working Group section on web site. The papers should be sent to Karri for publication. Each paper should include an abstract and keywords. Those will be necessary on the web site.

Presentation of the white papers

Antonis Kokossis presented his white paper.

Heikki Koivo presented his white paper.

Nick T. Koussolas presented his white paper.

Dave Boland presented general Sim-Serv presentation.

Dave Boland presented Calumn Forsyth's white paper. The exploitation white paper is combined into the same paper as business drivers (Calumn and Dave).

Martin Newby presented his white paper.

Esko Juuso presented simulation with intelligent methods. This is a new topic that was not previously included in the road mapping initiative. Esko Juuso will write a white paper that will be included in the final roadmap.

Nicos Karcianas presented his white paper.

The public workshop

On 15th of July, 2004 there will be a public workshop at University of Patras. The road mapping initiative including all white papers will be presented in the workshop. The Agenda for the public workshop was checked and revised.

Other issues

The roadmaps will target at new collaborative projects that will do research on the areas that are found important during road mapping process. The situation in EU framework 6 and beyond should be followed intensively to find suitable opportunities for funding

It was noted that a new call on simulation of complex systems is coming in IST in January 2005.

Nicos Karcanias distributed a project proposal draft for network project "SMC-IO" "Systems, Modeling and Control for Integrating Operations of Industrial Enterprises". The proposal has been prepared by Dave and Nick. Comments and contributions are asked from the participants.

DIPRO project proposal on digitalization of process industries and excellence in supply chain integration was discussed. Dave said that no concrete contributions have been received. The topic would fit in the open call IST-NMP but it needs further development and participants from industry.

Antonis Kokossis presented a new proposal on tracing products in chemicals industry. The intention is to submit that in next joint IST-NMP call.

Closing of the meeting

Nicos Karcanias thanked the participants for their contributions and closed the meeting.