
Editorial

Philippe Geril

EUROSIS,
European Simulation Office,
Greenbridge Science Park,
Ghent University – Ostend Campus,
Wetenschapspark 1, Plassendale 1,
B-8400 Ostend, Belgium
Email: philippe.geril@eurosis.org
Email: pgeril@yahoo.co.uk

Peter Lawrence*

c/o EUROSIS,
European Simulation Office,
Greenbridge Science Park,
Ghent University – Ostend Campus,
Wetenschapspark 1, Plassendale 1,
B-8400 Ostend, Belgium
Email: coranda@optusnet.com.au
*Corresponding author

Biographical notes: Philippe Geril is the Director of EUROSIS, based in Ostend, Belgium, and has been since the society was founded in 2002. Prior to that, he was the European Branch Manager for the US based Society for Computer Simulation and then Director of SCS Europe. While originally educated as an English/Russian translator and interpreter, his administrative skills, passion for technology and ability to converse in seven different European languages make him a natural fit for these roles.

Peter Lawrence was educated in Engineering and Physics at Monash University in Australia and has worked at various universities and commercial research organisations in both Europe and Australia. His teaching and research have concentrated largely on the use of simulation and statistical modelling to understand and solve real world problems, particularly in the manufacturing, logistics and education industries. Most recently, prior to his retirement, he worked at Swinburne University in a group responsible for teaching quantitative research methodologies to undergraduate and postgraduate students.

We hope you will enjoy this issue of the *International Journal of Computer Aided Engineering and Technology* based on especially selected extended papers from members of *The European Multidisciplinary Society for Modelling and Simulation Technology* (EUROSIS) examining the use of computer simulation and analysis as a cost saving tool and a methodology used for real world problem solving.

The papers selected for this issue were developed from work originally presented in the following EUROSIS Conferences from 2011 and 2012: The Industrial Simulation Conference (ISC), The European Simulation and Modelling Conference (ESM), The European Concurrent Engineering Conference (ECEC) and the biennial Simulation in Food and Nutrition Conference (FOODSIM). More information about these events can be found on our website <http://www.eurosis.org>.

These papers, which come from researchers across Europe, cover a variety of techniques and applications which fall under the broad heading of *Simulation modelling in engineering systems: techniques and applications*.

Queueing simulation efficiency improvements are explored using hierarchical networks (Balsamo, Rossi and Marin), parallel processing (Passerat-Palmbach et al.), advances in state space methods (Buchholz, Kroll and Horton) and interacting cellular automata (Pla-Castells, García-Fernández and Martínez-Durá).

Applications include manufacturing processes using finite element analysis (Camacho et al.), logistics (Fikejz and Kavička) and materials handling (Bauters et al.) using simulation and analytical techniques (Janssens and Braekers).

Aside from these traditional engineering applications, many Eurosis members work in the food production industry and their work is also represented in this issue (Lamas et al.; Gonzales-Barron and Butler).

We hope you are able find much interesting reading within these pages.

Finally, we would like to thank the journal's Editor-in-Chief, Dr. Yan Luo, and the editorial staff for their assistance in producing this issue and, of course, the authors for their hard work and patience.