

- **Invited Speakers**
- **Simulation in Air Traffic Management**
- **Transportation Network Simulation**
- **Framework for Modelling in Integral Water Management**
- **Bondgraphs Techniques**
- **Simulating Organisational Processes**
- **Complex Societal Problems and the use of Simulation**
- **The Delft Cluster Research Program on Management of the Complexity of Sustainable Urban Infrastructure (Re)development**
- **Simulation of Smart System in Civil Engineering**
- **Modelling and Simulation of Large-Scale and Complex Structures**
- **Business Process Simulation**
- **Model Solving Software in the Internet Era**
- **Modelling and Simulation Environments for Design, Planning and Operation of Globally Distributed Enterprises**
- **Tutorial**
- **Scientific Exhibition / Poster**

BioMedSim:

- **Mathematical Modelling in Biology, Biophysics and Biochemistry**
- **Mathematical Modelling in Immunology, Neuro-Physiology, Population Dynamics and Enzyme Kinetics**
- **Mathematical Models for Drug Administration**
- **Modelling and Design of Control and Assistance Devices**
- **Signal and Image Processing Chains for Biological and Medical Applications with Emphasis on Diagnosis**
- **Bio-Mechanics and Artificial Organs, Study of Muscular Motion**
- **Models, Techniques and Simulation Tools to case Integrated Understanding of Living Organism Functions**
- **Knowledge Based Systems and Knowledge Driven Data Processing for Biological and Medical Applications with Emphasis on Aids to Explicit Diagnostic Process and Diagnosis Rule Formation**
- **Mathematical Models and Simulation Studies on Cancer and Screening Infectious Diseases**
- **Diverse**

Regular Sessions (no special sessions)

- **Environment and Ecology**
- **Petri Nets**
- **Industrial Design**
- **Stochastic Systems / Discrete Event / Statistical Modelling**
- **Logistics**
- **Traffic / Transportation**
- **Communications**
- **Business**
- **Control Systems**
- **Complex Systems**
- **Web-Based and Distributed Systems**
- **Neural Networks and Fuzzy Systems**
- **Operation Research**
- **Organisational Processes**
- **Parallel Modelling and Processes**
- **Knowledge and Decision Support Systems**
- **Mathematical Methods in Simulation**
- **Industrial Processes**
- **Energy**

Invited Speakers

Impact of data on simulation: from early practices to federated and agent-directed simulation

Author(s): T. Ören

Integration in water management: loose ends or knots

Author(s): H.G. Wind
J-L. de Kok

Scientific visualization of simulation results: new approaches between web-integration and virtual reality

Author(s): Thomas Ertl

Simulation with learning agents

Author(s): Erol Gelenbe

The evolution of computer technology and the art of simulation

Author(s): Eugene Shapiro

Unique features of the DAO data assimilation systems

Author(s): Ricardo Todling

Who needs validity? Perspectives from the field of management education and development

Author(s): Joseph Wolfe

Simulation in Air Traffic Management

Simulation and modeling techniques within the realm of air transportation systems

Author(s): George L. Donohue
Reza Holland

Simulation in CNS/ATM research

Author(s): Andres Zellweger

Simulation vs analytical models for the evaluation of an airport landside

Author(s): Giorgio Romanin Jacu
Giovanni Andreatta
Lorenzo Brunetta
Luca Righi

Stochastic simulation techniques as related to innovation in communications-navigation-surveillance and air traffic management (CNS/ATM)

Author(s): Gaspare Galati
Maurizio Naldi
Mauro Ferri

Transportation Network Simulation

DY-Bus: A tool for the dynamic simulation of urban transit systems

Author(s): Luca Rosati

Umberto Crisalli

Schedule-based dynamic assignment models for public transport service

Author(s): Francesco Russo

Umberto Crisalli

Schedule-based dynamic transit path choice models: a general framework

Author(s): Agostino Nuzzolo

Framework for Modelling in Integral Water Management

Data definitions in an open model system for 2DD hydrodynamic systems

Author(s): H.H. Ten Cate
M.R.T. Roest
S. Hummel

Developments of the open model system for comprehensive 2DD modelling of watersystems

Author(s): E. de Goede
G.K. Verboom
H.H. ten Cate
S. Hummel
Th. L. van Stijn

Generic Framework Water: An open modelling system for efficient model linking in integrated water management – current status

Author(s): B. van Adrichem
M.W. Blind
P. Groenendijk

Simulation and control of river delta ecosystems application to Danube delta

Author(s): Florin Stanciulescu

The aral sea basin management model towards integrated water management

Author(s): Anatoli Sorokin
Diederik Waardenburg
Mahmud Ruziev
Marieke de Groen
Peter Kouwenhoven

Wadbos links wisdom to the Wadden sea

Author(s): C.L.M. van de Ven
T.T. Reijngoud

Bondgraphs Techniques

An orifice flow model for laminar and turbulent conditions

Author(s): B. Barnard
J.U. Thoma
W. Borutzky

Bond graphs junction structures and linear graphs

Author(s): Jean U. Thoma
Peter H. Roe
Wendong Wang

Bondgraphs modelling from a simple transmission to electric batteries

Author(s): Jean U Thoma

Physical causality versus computational causality in bond graphs

Author(s): David Parra
Juan José Ramos
Miquel Angel Piera

Simulating Organisational Processes

Another way to a better way: simulation paradigms decision inferences, and public sector enterprises management

Author(s): Desmond Saunder-Newton
Elizabeth Graddy

Cognitive capacity as competitive advantage: a simulation test

Author(s): Steve E. Phelan

Come together? The organizational dynamics of post-merger cultururation integration

Author(s): Glenn R. Carroll
J. Richard Harrison

Exploration, exploitation, and the optimal level of organizational inertia

Author(s): Alessandro Lomi
Erik Larsen

Learning and emergent co-ordination in speculative markets: some properties of ‘minority game’ dynamics

Author(s): G. Bottazzi
G. Devetag
G Dosi

Organizational adaptation and loose coupling

Author(s): Jerker Denrell

Social influence and the generation of joint mental attitudes in multi-agent systems

Author(s): Nicholas R. Jennings
Pietro Panzarasa

The dynamics of inter-organizational ties during crisis: empirical evidence and computational analysis

Author(s): Z.hiang Lin

Understanding innovation networks through simulation

Author(s): Andreas Pyka
Nigel Gilbert
Petra Ahrweiler

Complex Societal Problems and the use of Simulation

A decision science model of thinking processes for diagnosing mild distortions in one's relationship with self, others and the world

Author(s): Cathal M. Brugha

Decision support system in organizational processes: which kind of intelligence do we need to manage knowledge

Author(s): Iva Smit

Wim Smit

Simulation sciences in shaping the future. Challenges, tools, prospects and dangers

Author(s): Alexander Makarenko

The new economy: a study on some emerging characteristics

Author(s): Iva Smit

Jaap Hiddinga

Wim Smit

The validity of simulation to understand complex phenomena

Author(s): Cor Van Dijkum

Theory genesis with computer simulation: the psychological integration of resource use factors

Author(s): Wernher M. Brucks

Validation of the simulation models of complex societal problems for policy use

Author(s): Dorien J. De Tombe

The Delft Cluster Research Program on Management of the Complexity of Sustainable Urban Infrastructure (Re)development

CIMSURE: A city management system for sustainable urban infrastructure (re)development

Author(s): F.H. Mischgofsky
P. Kuiper

Co-operative knowledge management for urban infrastructure redevelopment

Author(s): F.H. Mischgofsky
L.R. Nieuwenhuizen
P. Kuiper

Deciding for sustainability

Author(s): Ch.F. Hendriks
G.M. Sluimer
P.W.G. Bots

From technological innovation to system innovation for (re)developing the urban infrastructure

Author(s): F.H. Mischgofsky

GIS-based grids for decision making in urban planning

Author(s): A. Dullemond

Integral risk management of the railway tunnel and underground site development in Delft

Author(s): H.J.A.M. Hergarden
J.J. van Meerten
P.E. de Winter
P.H. Waarts

Integrated municipal knowledge management a virtual townh@ll

Author(s): H. Bos
P. Severijnen

SUREURO : Sustainable refurbishment Europe

Author(s): K.H. Dekker

The Delft Cluster Research Program on Management of the Complexity of Sustainable Urban Infrastructure (Re)development

VISI: a methodology to standardise communications in civil engineering

Author(s): Henk Schaap

Simulation of Smart System in Civil Engineering

Aseismic control of multi-degree-of-freedom non-linear structures

Author(s): Alessandro Baratta
Ottavia Corbi

Characterisation of shape memory alloys – Application to the retrofitting of brick masonry walls by the pseudo-dynamic method and numerical models

Author(s): D. Tirelli
F. Bono
V. Renda

Concurrent fuzzy chip controllers

Author(s): F. Casciati
G. Torelli
L. Faravelli
R. Rossi

Disturbance attenuation for a flexible piezoactuated beam

Author(s): Giovanni Caruso
Laura Menini
Sergio Galeani

Dynamic response improvement of elastic-plastic structures reinforced by SMA elements

Author(s): Ottavia Corbi

Optimal TLD vibration control of structures using cone-shaped liquid reservoirs

Author(s): Alessandro De Stefano
F. Casciati
Mitsuhiro Soga
Takayoshi Aoki

Thermo-mechanical behavior of a shape-memory alloy beam in the superelastic range

Author(s): Elio Sacco
Ferdinando Auricchio

Modelling and Simulation of Large-Scale and Complex Structures

Modeling and simulation of composite laminates

Author(s): Elio Sacco

Ferdinando Auricchio

Modelling and numerical methods for frictional contact problems algorithms and applications

Author(s): Frédéric Lebon

Modelling micro and macro failure surface of media with microstructure

Author(s): G. Crici

R. Luciano

Numerical simulation of damaged cohesive interfaces in layered plates

Author(s): Domenico Bruno

Fabrizio Greco

Numerical simulation of multiple delaminations in composite laminates under mixed-mode deformations

Author(s): Paolo Lonetti

Raffaele Zinno

Numerical simulation of wind loads on long-span bridges

Author(s): Guiseppe Vairo

Business Process Simulation

UML based business systems modelling and simulation

Author(s): Boris Shishkov

Joseph Barjis

Model Solving Software in the Internet Era

An ontological approach in quality assessment of modelling and simulation

Author(s): Huub Scholten

Challenges to model solving software in the internet area

Author(s): Adri J. Beulens

Huub Scholten

Modelling and simulation of spatial processes

Author(s): Arend Ligtenberg

Arnold K. Bregt

Ron van Lammeren

T. van de Wal

The smart approach to modelling and simulation

Author(s): Huub Scholten

Mark R. Kramer

Modelling and Simulation Environments for Design, Planning and Operation of Globally Distributed Enterprises

A manufacturing system engineering moderator identifying conflicts in the design of distributed manufacturing systems

Author(s): Jennifer A. Harding
Keith Popplewell

A preliminary information model for a supply chain simulation

Author(s): Charles McLean
Shigeki Umeda
Y. Tina Lee

Design agent system for collaborative design process in manufacturing systems

Author(s): Eiji Arai
Fumiko Kubota
Masaru Nakano
Yoshiyuki Yura

Modelling and simulation for globally distributed enterprises

Author(s): Frank-Walter Jaekel
German Garcia de Gurtubai
Markus Rabe

Tutorial

Experimental design for sensitivity analysis simulation models

Author(s): Jack P.C. Kleijnen

Mathematical-heuristic modelling and its application in high complexity systems simulation

Author(s): Florin Stanculescu

New advances combining optimization and simulation

Author(s): Glover

The arena product family: towards successful deployment of simulation throughout organizations

Author(s): Martin te Lintelo

Scientific Exhibition / Poster

A performance evaluation of the evolutionary algorithms for determining the K most vital arcs in the shortest path problem

Author(s): Ho Yeon Chung
Yeo Keun Kim

A simulation program for teaching basic principles of physiologic control

Author(s): C.J. Snijders
G.A. Hoek van Dijke
J. Storm

Algorithmic description of the biological activity of a solid tumour in VIVO

Author(s): D.D. Dionysiou
G. Pissakas
G.S. Stamatakos
K.S. Nikita
N.A. Mouravliansky
N.K. Uzunoglu
P.C. Georgolopoulou

An analytical solution to a multiple source problem of a non-buoyant pollutant with removal mechanism

Author(s): A.K. Shukla
M. Agarwal

Dynamical models of heterogeneous populations

Author(s): Georgy P. Karev

Forming and bifurcations of travelling waves in some general population models with auto-hemotaxis

Author(s): F. Berezovsky
Georgy P. Karev

Forming the bifurcations of travelling waves in some general population models with auto-hemotaxis

Author(s): F. Berezovsky
Georgy P. Karev

Scientific Exhibition / Poster

Identification of combined patient pharmacokinetics and pharmacodynamics using Neural Networks

Author(s): Hannes Kerschner
Martin Kozek

Mathematical modelling and numerical simulation of space-dependent multispecies interactions

Author(s): C. Rossi
J.F.C.A. Meyer
R.C. Sossae
S. Loïselle

Methodology to assess the transmission coefficients of the interaction between aids and tuberculosis diseases

Author(s): Alejandro B. Engel
Hyun Mo Yang
Siliva Martorano Raimundo

Real time adaptive note and swaras recognition using HMM and neural networks

Author(s): Arun Varadarajan
Charu Sheila
N. Venkateswaran
S. Hariram
S. Krishna

Mathematical Modelling in Biology, Biophysics and Biochemistry

A numerical approach to the 3D-reconstructions of the human thorax and the solution to the inverse problem of electrocardiography

Author(s): Alexandru M. Morega
Daniel Mocanu
Mihaela Morega

Application of labview for simulation of ECG-genesis

Author(s): Fr. J. Pasveer
R.P. van Wijk van Brievingh

Calcium dynamics in cardiac myocytes: a model for drugs effect description

Author(s): Catherine Pavoine
François Rocaries
Françoise Pecker
Hubert Lorino
Marisol Delgado
René Natowicz
Yskandar Hamam

Computational modelling as a tool to bridge the gap between animals and human in cochlear implant research

Author(s): J.H.M. Frijns
J.J. Briaire

Effect of noise on block-oriented identification of the physiological propofol model

Author(s): Martin Ozek
Nada Jovanovi_

Kinetic models of fungal biomass growth and cellulose biodegradation

Author(s): M. Petre
M. Sularia

Mathematical models of bone remodelling and numerical simulations on CAD Systems

Author(s): Shinnosuke Oharu
Takashi Takata
Yoshinori Matsuura

Mathematical Modelling in Biology, Biophysics and Biochemistry

Modelling physiological functions: parallels with distributed computing

Author(s): Christophe Lecerf

Marc Bui

Sleep apnea syndrome identification using hidden Markov models

Author(s): Daniel Isabey

Frédéric Lofaso

Rdouane Fodil

Tarik Al-Ani

Yskandar Hamam

Structured aggregation in simplified biological cell systems using probability amplitudes

Author(s): Bardo E.J. Bodmann

José Carlos M. Mombach

Mathematical Modelling in Immunology, Neuro-Physiology, Population Dynamics and Enzyme Kinetics

A plain cellular automata for the simulation of the immune system

Author(s): G. Nicosia
S. Motta

The effects of an apoptosis mechanism on the immune response

Author(s): F. Castiglione
G. Nicosia
L. Zammataro
S. Motta

Using automatic differentiation for the minimal P-norm solution of the biomagnetic inverse problem

Author(s): Christian H. Bischof
H. Martin Bücke
Roland Beucker

Mathematical Models for Drug Administration

Modelling drug delivery systems using finite element analysis

Author(s): A.M. Healy

K.M. Gallagher

L. Crane

L.G. McCarthy

M. Crane

N.J. Hurley

O.I. Corrigan

Modelling and Design of Control and Assistance Devices

Intra-aortic balloon control with a genetically optimised control system

Author(s): Jacques LeFèvre

Marisol Delgado

Vanessa Diaz-Zuccarini

Modelling of an arteriovenous fraft-to-vein anastomosis under steady transitional flow conditions

Author(s): Chris Bertram

Francis Loth

Hisham Bassiouny

Nurullah Arslan

Signal and Image Processing Chains for Biological and Medical Applications with Emphasis on Diagnosis

Healthcare simulation model specification featuring multi-stage neural network rule extraction

Author(s): Alwyn Goh

Kok Meng Hoe

Syed Sibte Raza Abidi

IERAPSI-a surgical planning and training simulation system

Author(s): Ad Emmen

Leslie Versweyveld

Nigel W. John

The analysis of heart sounds for symptom detection and machine-aided diagnosis

Author(s): Nancy E. Reed

Peter Fritzson

Todd R. Reed

The biometric sensors: metrological evaluation and different implications

Author(s): F. Gaeta

M. Savastano

Bio-Mechanics and Artificial Organs, Study of Muscular Motion

Modelling and identification of sphincter system for prosthesis development

Author(s): François Rocaries
Michel Bouchoucha
Yskandar Hamam

Motion analysis system for identification of 3D human locomotion kinematics data and accuracy testing

Author(s): Vladan Papi_
Vlasta Zanchi

Predicting of transcription factor binding sites damaged/appeared due to point mutations by simulating the mutation alterations in pattern of DNA binding to nuclear proteins

Author(s): Elena Gorshkova
Galina Orlova
Gennady Vasiliev
Julia Ponomarenko
Mikhail Ponomarenko
Oleg Fokin
Sergey Lavruyshev
Tatyana Merkulova
Zoya Levashova

Models, Techniques and Simulation Tools to case Integrated Understanding of Living Organism Functions

A fractal-discrete scheme for lung sound spectral modelling

Author(s): A.L. Cechin

Bardo E.J. Bodmann

L.P.L. de Oliveira

Model based identification and control of patient parameters during the hemodialysis treatment

Author(s): P. Wabel

R. Issermann

U. Moissl

Simulation of atrium electrical activity

Author(s): Nico Kuijpers

Peter Hilbers

Knowledge Based Systems and Knowledge Driven Data Processing for Biological and Medical Applications with Emphasis on Aids to Explicit Diagnostic Process and Diagnosis Rule Formation

Blood gases values prognosis based on confidence interval prediction

Author(s): Ryszard Tadeusiewicz

Wieslaw Wajjs

Mathematical Models and Simulation Studies on Cancer and Screening Infectious Diseases

Deterministic modeling of the chromatin organization in human cell nuclei

Author(s): Eva Bartova

Jan Voracek

Markus Mannio

Michal Kozubek

Estimating parameters of a microsimulation model for breast cancer using the score function method

Author(s): Gerrit J. van Oortmarssen

Nanda Piersma

Sita Y.G.L. Tan

Role of decreased cell adhesion in tumor morphology: a simulation study

Author(s): Adriana N. dos Reis

José C.M. Mombach

Marcelo Walter

Diverse

Ab-initio studies concerning adenosin – 5' – triphosphate (ATP).II

Author(s): Alexandrina Donescu

D. Lerner

F. Hartescu

Josette Weinberg

V.Em. Sahini

Medical applications of geant4 simulation toolkit

Author(s): A. Solano

F. Foppiano

F. Marchetto

M.G. Pia

P. Nieminen

S. Agostinelli

S. Chauvie

S. Garelli

V. Rolando

Simulating a patient undergoing anaesthesia for controller development and educational purposes

Author(s): Adolf H. Glattfelder

Alex M. Zbinden

Christian W. Frei

Daniel Leibundgut

David Hausheer

Konrad S. Stadler

Raimundo Sierra

Simulation of mortality dynamics for mammalian populations exposed to radiation

Author(s): O.A. Smirnova

Environment and Ecology

Dynamic ecosystem management games: a simulation approach

Author(s): Marco a. Janssen

Ecological models of red tide plankton and computer simulation

Author(s): Mineo Yamaguchi

Shinnosuke Oharu

Yoshio Taniguchi

Multi agent simulation of the behavioural dynamics behind the innovation diffusion of 'green' products

Author(s): Marco A. Janssen

Wander Jager

Petri Nets

A type of Petri Net based on speech act theory for modelling social systems

Author(s): Jan L.G. Dietz
Joseph Barjis

Analysis and simulation modelling of glycolitic pathway using Petri Net

Author(s): Isaac Barjis
Isan Barjis
Joseph Barjis

Coloured petri nets for simulation F.M.S. model maintenance

Author(s): Antoni Guasch
Miquel Angel Piera

Performance evaluation based on statecharts specification using Markov chains ad SMPL simulation

Author(s): C.R. Lisboa Francês
M.J. Santana
N.L. Vijaykumar
R.H. Carlucci Santana
S.V de Carvalho
V. Abdurahiman

Workflow modelling and simulation using semantic analysis and Petri Nets

Author(s): Jan L.G. Dietz
Joseph Barjis
Kecheng Liu
Samuel Chong

Industrial Design

Optimal control of a quarter vehicle with semi-active suspension

Author(s): Arben Çela

Yskandar Hamam

Research on tools suit for collaborative virtual prototyping engineering

Author(s): Bo Hu Li

Chun Lai Quan

Guang Leng Xiong

Wen Hai Zhu

Xu Dong Chai

Stochastic Systems / Discrete Event / Statistical Modelling

An analysis of clustered categorical data – Application in dental health

Author(s): Asis Kr. Chattopadhyay
Kalyan Das

Applied multiresponse metamodelling for queuing network simulation experiments

Author(s): Constantine Lazos
Eleftherios Angelis
Panajotis Katsaros

Random fragmentation of molecular cloud and initial mass function – A Monte Carlo simulation study

Author(s): Asis Kr. Chattopadhyay
B. Basu
T. Kanjilal

Some problems concerning the numerical simulation of hybrid control systems

Author(s): Florin Stanciulescu
Virginia Ecaterina Oltean

Logistics

A framework for the modelling and simulation of logistic networks

Author(s): F. Bause

H. Beilner

M. Völker

Look-ahead strategies for real time adaptive control of multi-product multi-server bulk service processes-rule construction and results

Author(s): D.J. van der Zee

Modelling & simulation for customer satisfaction in retail warehouse management

Author(s): Agostino G. Bruzzone

Angela Coppa

Francesco Spirito

Roberto Mosca

Simone Simeoni

Using risk-discounted return-on-investment as a measure of operational performance in inventory decisions

Author(s): John Betts

Robert B. Johnston

Traffic / Transportation

A tool set for evaluating and controlling traffic simulation

Author(s): András Jávor
Gábor Szücs

A UML-based modelling approach for analysing travel behaviour

Author(s): Christophe Claramunt
Marius Theriault

Artificial intelligence techniques for freeway traffic flow forecasting

Author(s): Giovanni Huisken

Realtime interactive animated simulation experiments with straddle carrier drivers

Author(s): Theo H.W. Horstmeier

Transport infrastructure planning: modelling of socio-economic feasibility risks

Author(s): Steen Leleur

Vection: modelling and simulation of controlling passive motions in virtual reality

Author(s): Ulrich Kramer

Communications

A simulation study of location-aided routing protocols for mobile ad-hoc networks

Author(s): C.S. Ahluwalia

G. Theodoropoulos

A simulation system for base station allocation in mobile communication networks using queuing model

Author(s): Leonard Barolli

Takako Yamada

Yukio Takahashi

Error modelling for TCP simulations

Author(s): Hussein Badr

Kostas Pentikousis

Simulation on the integer capacity planning under uncertain demand problem in telecommunication networks

Author(s): Abdel Lisser

G rad Plateau

Nelson Maculan

Rafael Andrade

Business

Agent-based simulation platform for evaluating management concepts

Author(s): Heinz Ulrich
Jens Henoeh

Computer simulation for portfolio selection models with transaction costs and initial holdings

Author(s): Constanta Zoie R_dulescu
Marius R_dulescu
Sorin R_dulescu

Kinetic transformation graphs: extending the stock flow models of system dynamics with quasi-bond graphs notations – applications in managed systems

Author(s): Jacques LeFèvre

Matrix modelling method for discrete dynamic business simulation

Author(s): Eric Melse
Tjeu Blommaert

Modelling of the modern business intelligence analytical function based on stochastic simulation

Author(s): Tomislav Kosic
Vilko Ziljak
Vladimir Simovic

Control Systems

Design of a framework for hardware-in-the-loop simulations and its application to a model helicopter

Author(s): Marco A.A. Sanvido
Walter Schaufelberger

Modelling and identification of varying parameters in eye-hand human dynamics

Author(s): Mikulá_Alexik

Real time system for processes simulation and optimization

Author(s): Florin Hartescu

Simulation and control system design of thermal conditions in building using active and passive resources

Author(s): Ale_Krainer
Borut Zupanic
Igor_krjanc
Maja Atanasijevic

Smoothing fast ferry vertical motions: a simulation environment for the control analysis

Author(s): B. de Andres
J.M. de la Cruz
J.M. Giron-Sierra
Segundo Esteban

Usage of real time hybrid simulation for verification of control algorithms

Author(s): Mikulá_Alexik

Complex Systems

An object oriented framework for functional distributed simulation

Author(s): Antonino Mazzeo

Guido Rotondi

Nicola Mazzocca

Rocco Aversa

Simulation complex systems as sustainable organization by transparent sensitivity models

Author(s): Frederic Vester

Toolbox for analysis and presentation of real multivariable systems

Author(s): Borut Zupanic

Maja Atanasijevic

Rihard Karba

Validating complex construction simulation models using 3D visualization

Author(s): Julio C. Martinez

Vineet R. Kamat

Web-Based and Distributed Systems

Epoch scheduling in a distributed system

Author(s): Helen D. Karatza

Simulation of communities of nodes in a wide area distributed systems

Author(s): Gilbert Babin

Herwig Unger

Peter Kropf

Saiho Yuen

Neural Networks and Fuzzy Systems

"An ""intelligent"" procedure for fuzzy identification of dynamic and non-linear systems"

Author(s): A.M. Luciano
M. Sacchetti
M. Savastano

Developing a neural network model with scarce data

Author(s): Davorka _el
Nadja Hvala
Rihard Karba
Sre_ko Milani_
Stanko Strm_nik

Fuzzy modelling of depth of anaesthesia using a hierarchical structure

Author(s): Jiann-Shing Shieh
Shou-Zen Fan
Wen-Long Shi

The interpretation of Neural Networks in the simulation of physical systems

Author(s): Adelmo Luis Cechin
Antonio Souto
Luiz Paolo Luna de Oliveira

Operation Research

Continuous solutions in flexible manufacturing scenarios using parametric inference

Author(s): Arthur T. Gómez

Bardo E.J. Bodmann

The application of system simulation and linear programming in determining the optimal resource assignment of the wholesale flower market in Taiwan

Author(s): Nien-Ching Lin

Tzong-Ru Lee

Organisational Processes

Collecting data for simulation of IT service management processes

Author(s): Wouter de Jong

Design of human resource planning system for agriculture-based industries: the comparison between Japan and Indonesia

Author(s): Didik Purwadi

Parallel Modelling and Processes

A cellular automata model of fish-aggregating-devices performance

Author(s): Fabio Badalamenti

Giovanni D'Anna

Maria Piscitelli

Salvatore DiGregorio

A massively parallel simulation method for solving 2D distributed parameter systems

Author(s): L. Dekker

S.W. Brok

A parallel simulation method for solving non stationary flow dynamics

Author(s): S.W. Brok

Approaches to organization of stochastic optimal functioning of large-scale distributed computer systems

Author(s): Victor G. Khoroshevsky

Simulation of parallel switching structures for reconfigurable computer systems and high-speed networks

Author(s): Ivan Plander

Knowledge and Decision Support Systems

A teamwork test-bed for a decision support system

Author(s): Brahim Chaib-draa

Peter Kropf

Sébastien Paquet

Applying data envelopment analysis and intelligent agents in a constructive simulation system to evaluate behavior of commanders and brigade/battalion units

Author(s): Sergio Eduardo Quijada

Integral simulation approach to decision assessment in enterprises

Author(s): Andrej Kraba

Igor Bernik

Miroljub Kjaji_

Robert Leskovar

PML: an object-oriented modelling language for physics knowledge representation

Author(s): David Alsina

Juan José Ramos

Miquel Angel Piera

Retrieving parameterized simulation models from a database

Author(s): Csaba Attila Boer

Henk de Swaan Arons

Mathematical Methods in Simulation

A modelica-based language for object-oriented modelling with partial differential equations

Author(s): Levon Salmadi
Peter Fritzson

Flexible finite volumes for tracer transport in coastal regions

Author(s): F. Naifar
P. Wilders
S. van der Baan

Modification of flow fields to recover the property of divergence freedom in transport solvers

Author(s): K. Dekker

On the limits of a linear approach in power systems' modelling and simulation

Author(s): Carmen Golovanov
Mihaela Albu
P. Postolache

Industrial Processes

Adequate modelling as a prerequisite for successful resource simulation activities in the paper industry

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Modelling the devolatilization of polyamid-6 in wiped film evaporators

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Simulation of an unknown reaction scheme: Wood pyrolysis

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