# LIST OF FREQUENTLY USED KEYWORDS
## Please circle 5 Keywords for your paper
### EUROSIS PAPER NR: _____

**APPLICATIONS**
Aerospace
Agriculture
Automatic control
Behavioural science
Biology
Business
Chemical engineering
Civil engineering
Communications
Computer Aided Design (CAD)
Computer Aided Engineering (CAE)
Computer Integrated Manufacturing (CIM)
Computer Integrated Manufacturing and Engineering (CIME)
Computer performance
Computer software
Computer systems
Concurrent Engineering
Control systems
Corporate planning
Criminology
Cybernetics
Ecology
Education
Electrical engineering
Electronics
Energy
Entertainment
Environmental science
Finance
Forestry
Gaming
Geophysics
Government
Graphics
Health care-
Health sciences
Hydrology
Hypermedia
Image processing
Industrial control
Industrial engineering
Industrial processes
Information systems
Labour
Management science
Manufacturing
Marine
Marketing
Mechanical engineering
Military
Multimedia
Natural resources
Naval
Neurosciences
Nuclear engineering
Operations research
Pattern recognition
Petroleum engineering
Pharmacokinetic
Physics
Physiology

Political science
Production
Psychology
Resource management
Scheduling
Signal processing
Social science
Speech synthesis
Speech recognition
Telecommunications
Test equipment
Thermodynamics
Transportation
Training
Urban affairs
Virtual reality
VLSI & simulation

**COMPUTERS AND COMPONENTS**
Array processors
Calculators
Communications processors
Computer networks
Distributed processors
Function generators
Hybrid computers
Man-machine interfaces
Microcomputers
Minicomputers
Multiprocessors
Personal computers
Signal processors
Simulators
Special-purpose processors

**LANGUAGES**
Combined
Continuous
Discrete
Financial planning
Network

**MANAGEMENT AIDS**
Decision-making
Decision support systems
Forecasting
Management games
Policy-making
Risk analysis

**MATHEMATICAL METHODS**
Data enrichment
Differential equations
Data compression
Dynamic programming
Error analysis
Estimation
Filtering
Function generation
Integration
Least-squares methods
Linear programming

Mathematical programming
Nonlinear programming
Numerical methods
Optimization
Parallel methods
Partial differential equations
Random number generation
Regression analysis
Sampling
Spectral analysis
Statistical analysis
Stiff equations
Time series analysis
Transforms

**MODEL AND SIMULATION MANAGEMENT**
Computer-aided analysis
Documentation
Model acceptance
Model analysis
Model credibility
Model design
Model evaluation
Model testing
Model transfer
Software cost analysis
Software engineering
Software management
Standards

**MODELLING METHODOLOGY**
Approximation techniques
Arrival generation
Bond graphs
Delphi techniques
Dynamic modelling
Model reduction
Parameter identification
Performance analysis
Sensitivity analysis
Truncation error
Validation
Variance reduction
Verification
Virtual Reality

**SIMULATION METHODS**
AI in simulation
Combined simulation
Continuous simulation
Discrete simulation
Emulation
Gaming
Hybrid simulation
Interactive simulation
Man-in-the-loop simulation
Real-time simulation
System dynamics
**SOFTWARE**

AI-supported simulation
Animation software
Database management systems
Differential equation solvers
Graphics packages
Intelligent simulation environments
Interactive programs
Microprogramming
Operating systems
Program generators
Report generators
Scientific visualisation software
Simulation interfaces
Statistical packages

**SYSTEM OPERATION**
System analysis
System engineering
System identification
System management

**THEORY**
Catastrophe theory
General systems theory
Philosophy

**TYPES OF MODELS**
Compartmental
Corporate
Decision
Deterministic
Dynamic
Econometric
Event-oriented
Expert system
Feedback
Global
Grid
Hierarchical
Interactive
Linear
Lumped parameter
Markov-chain
Matrix
Meta
Microanalytic
Monte Carlo
Neural network
Nonlinear
Qualitative
Queueing
Object-oriented
Probabilistic
Process-oriented
Real-time
Regional
Stochastic
Synthetic Environments
Topological
Vector
World