
BUILDING PERFORMANCE SIMULATION

J.L.M. Hensen
Centre for Building and Systems TU/e – TNO
Postbus 513, 5600MB Eindhoven, Netherlands

Building performance simulation - supporting innovative building and systems professionals working in multidisciplinary design teams

Prof. dr.ir. Jan Hensen
TU/e Center for Building and Systems

Increasing fundamental knowledge:

Translation into:
- Process innovation: strategic design
- Technology innovation: IFD
- Tool innovation: building simulation for integrated solutions

Building Performance Simulation
Building performance simulation

for integrated solutions of
Objective

A better understanding of the underlying principles and improvement of simulation based design tools for an integrated, performance based approach of traditional and renewable energy systems in the built environment.

Staffing (projection)

- Hensen - co-ordinator
- Maassen - TNO liaison
- continuously / simultaneously
  - 5 PhD students
  - 3 MSc students
  - 2 research fellows (post-docs)
  - 1 academic visitor
Methods

- Computer modelling and simulation
- Physical experiments for
  - model validation or calibration (lab)
  - "discovering the unexpected" (real)
- Other IC technologies for simulation support and knowledge transfer

Activities

- Teaching
- Research
- Knowledge transfer
Teaching

- Introduction
- State-of-the-art
- Capita Selecta

Research topics

- General domain specific research
- Advancement of building modeling and simulation tools and techniques
- Quality assurance in building modeling and simulation
- Increasing the usefulness of simulation for building design and operation
Distributed computing (run-time coupling)

Building Performance Simulation

Building life-time simulation support

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International co-operation

COPERNICUS ERB IC15 CT92 0511
Integrated Design Optimization of building energy performance and indoor environment
New Approach Towards Design Interface
SMARTHOMES
An e-home
Building Performance Simulation

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National co-operation

vabi
Vereniging voor automatisering in de bouw en installatietechniek

IBPSA-NVL
IBPSA-NVL stelt zich toe deel:
- toepassing van gebouwenergetische simulatie te bevorderen
- kennis over gebouwenergetische simulatie in de bouwsector te verspreiden
- het kennisniveau binnen het vaakgaande vertrekken

IBPSA-NVL is een onderdeel van IBPSA World
Nieuwsberichten:
8/14/2000: het International building Simulation Congress 2000 was een groot succes (synopsis)
Voor NL tot 14 augustus keerden meer dan 700 personen uit alle werelddelen het congres te Braunschweig. De proceedings kunt u nu nog bestellen tegen een vriendelijke prijs. Stuur een mail naar ibpsanl@tz.rivm.nl info.

Contact/Registratie:
klik hier voor de volledige lijst met sponsors en niveauwaarde verwijzingen
Building Performance Simulation
Knowledge transfer

- scientific & professional papers
- special issues
- IBPSA-NVL symposia & conferences '99, '00, '01, '02, '03, '04 and '05
- Building Simulation 2003

Building Performance Simulation
Guests

Today

- exchange of ideas
- learning experience
- getting to know each other
- presentation of (partial) results
The best way to predict the future is to create it.