Conference Paper

A Cloud Based Simulation Service for 3D Crowd Simulations

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Conference: 2018 IEEE/ACM 22nd International Symposium on Distributed Simulation and Real Time Applications (DS-RT)

Rafael Pax · Jorge J. Gomez-Sanz · Ismael Sagredo Olivenza · Marlon Cárdenas-Bonett

References (22)

Virtual Development of a Presence Sensor Network Using 3D Simulations

Conference Paper

May 2017 · Lecture Notes in Computer Science

Rafael Pax · Marlon Cárdenas-Bonett · Jorge J. Gómez-Sanz · Juan Pavón

Testing the control and deployment of large networks of sensors and actuators is a complex and expensive task. This paper presents a 3D simulation tool that facilitates testing and measuring this kind of systems in a virtual environment, which alleviates the costs of doing these tasks in a physical settin…

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Requirement engineering activities in smart environments for large facilities

Article

Jan 2017 · Computer Science and Information Systems

Jorge J. Gómez-Sanz · Rafael Pax · Millán Arroyo · Marlon Cárdenas-Bonett

Developing a large, but smart environment is a complex task that requires the collaboration of experts of different disciplines. How to successfully attain such collaboration is not a trivial matter. The paper illustrates the problem with a case study where the manager of the facility intends to influence…

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ECS Game Engine Design

Article

Jun 2014

Daniel Masamune Hall

Game programming design and organization can be difficult and complicated. To simplify the development process, frameworks with an array of tools and utilities known as game engines are used. The main goal of this project is to explore game engine designs and develop a design for a modular an…

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A simulation as a service methodology with application for crowd modeling, simulation and visualization

Article Full-text available

Jan 2014 · SIMULATION: Transactions of The Society for Modeling and Simulation International

Sixuan Wang · G. A. Wainer

Crowd modeling and simulation (M&S) has been used to support the analysis of the behavior of crowds, in order to predict the impact of pedestrian movement and to test design alternatives. In recent years, crowd M&S has become more complex, and new technologies such as CAD (computer-aided design)…

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Modeling and simulation as a cloud service: A survey

Conference Paper Full-text available

Dec 2013

E. Cayirci

Modelling and simulation as a service (MSaaS) is defined, and the differences between MSaaS and Software as a Service are clarified. MSaaS architectures and deployment strategies are surveyed. The top threats to cloud computing and MSaaS, the other security challenges and technical requirements a…

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An Analysis of the Energy and Cost Savings Potential of Occupancy Sensors for Commercial Lighting Systems

Article

Sep 2013 · Journal of the Illuminating Engineering Society

Bill Von Neida · Dorene Manicria · Allan Tweed

A study was conducted on the lighting operation and workspace occupancy patterns across numerous commercial buildings to better quantify the performance estimates of occupancy sensors across typical space types. By examining how occupants occupy their spaces and manually control their lighting, and…

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ENERNET: Studying the dynamic relationship between building occupancy and energy consumption

Article

Apr 2012 · Energy and Buildings

Claudio Martani · David Lee · Prudence Robinson · [...] · Carlo Ratti

With cities accounting for approximately two thirds of the global demand for energy, there is significant scope to optimize energy usage of cities, in particular by improving the use of the built form. Large non-domestic buildings are increasingly the focus of attention, due to their substantial demands and…

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The Exodus Evacuation Model Applied To Building Evacuation Scenarios

Article

May 1996 · Journal of Fire Protection Engineering

Matthew Owen · E.R. Galea · Peter Lawrence

The purpose of this paper is to demonstrate the potential of the EXODUS evacuation model in building environments. The latest PC/workstation version of EXODUS is described and is also applied to a large

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Occupancy-driven energy management for smart building automation

Article Full-text available

Nov 2010

Yuvraj Agarwal · Bharathan Balaji · Rajesh Gupta · [...] · Thomas Weng

Buildings are among the largest consumers of electricity in the US. A significant portion of this energy use in buildings can be attributed to HVAC systems used to maintain comfort for occupants. In most cases these building HVAC systems run on fixed schedules and do not employ any fine grained control…

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