

General Purpose System for Simulation with Social Network Service Portal

Applications

- Collaborative Simulation
- Deployed for Multilevel Modelling of Physiological Systems

Problem & Solution

Researchers wishing to share simulation models are unable to do so unless they have access to the same computing environment. Even when access to computational facilities can be arranged, there are often bureaucratic barriers to be overcome delaying research.

The solution is a general system for simulation, which leverages social media providing a means to submit models, receive progress reports and simulation output. This facilitates collaboration from external researchers and makes it easy to interact with the system with only a mobile phone.

Benefits

- Ubiquitous high performance simulation
- Sharing of simulation models and results
- Seamless integration with SNS
- Simulation job monitoring and output

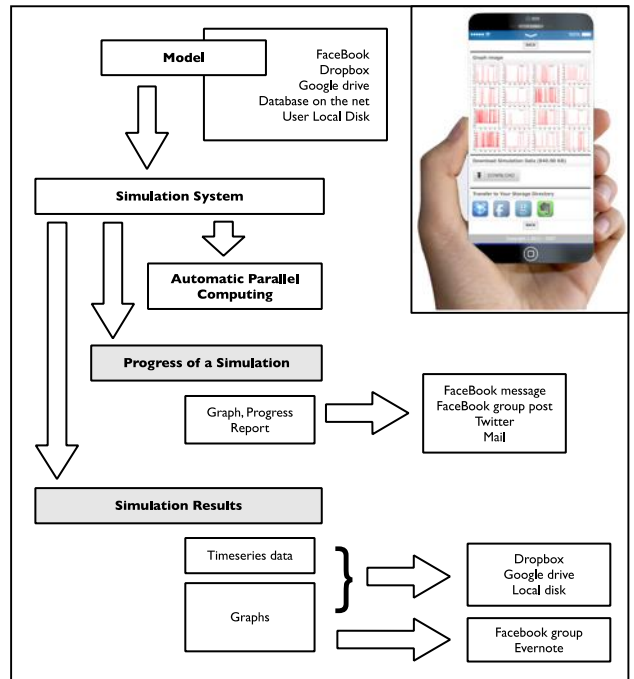
Keywords

PHML, ubiquitous computing, simulation, HPC, SNS, mobile phone, model, collaborative research

Patent Granted

For more information

Technology Licensing Section at bdtl@oist.jp or +81-(0)98-966-8937



System diagram showing, 1. model submission, simulation system facilitating three functions; 2. automatic simulation on HPC system, 3. simulation status monitoring, and 4. simulation result delivery. 1., 3. and 4. are compatible with a variety of SNS services as shown. Inset shows progress report on mobile phone.