

# OpenSees Applications for Parallel Computing

## Producer-Consumer Approach



*Parallel simulation applications built with OpenSees API and MPI API can be implemented using NEESgrid resources.*

# Parallel Computing Opensees

**Terje Haukaas**



## **Parallel Computing Opensees:**

### **Development of Geotechnical Capabilities Into OpenSees Platform and Their Applications in**

**Soil-foundation-structure Interaction Analyses** Zhaohui Yang,2002      Soil-structure interaction for the seismic design of integral abutment bridges Domenico Gallese,2025-03-31 Winner of the Competition Prize for PhD Thesis 2023 arranged by Sapienza University Press Integral abutment bridges are bridges characterised by a monolithic connection between the deck and the abutments Therefore their behaviour during a seismic event is controlled by the interaction of the entire structure with the surrounding soil and markedly with the approach embankment Despite becoming a popular design due to low maintenance requirements seismic design procedures still face uncertainties due to limited understanding of the dynamic soil structure response

**Soil-structure Interaction Analysis Using High-performance Parallel Computation** Georgios Petropoulos,2008      Earthquake Disaster Simulation of Civil Infrastructures Xinzheng Lu,Hong Guan,2017-01-18 Based on more than 12 years of systematic investigation on earthquake disaster simulation of civil infrastructures this book covers the major research outcomes including a number of novel computational models high performance computing methods and realistic visualization techniques for tall buildings and urban areas with particular emphasize on collapse prevention and mitigation in extreme earthquakes earthquake loss evaluation and seismic resilience Typical engineering applications to several tallest buildings in the world e g the 632 m tall Shanghai Tower and the 528 m tall Z15 Tower and selected large cities in China the Beijing Central Business District Xi an City Taiyuan City and Tangshan City are also introduced to demonstrate the advantages of the proposed computational models and techniques The high fidelity computational model developed in this book has proven to be the only feasible option to date for earthquake induced collapse simulation of supertall buildings that are higher than 500 m More importantly the proposed collapse simulation technique has already been successfully used in the design of some real world supertall buildings with significant savings of tens of thousands of tons of concrete and steel whilst achieving a better seismic performance and safety The proposed novel solution for earthquake disaster simulation of urban areas using nonlinear multiple degree of freedom MDOF model and time history analysis delivers several unique advantages 1 true representation of the characteristic features of individual buildings and ground motions 2 realistic visualization of earthquake scenarios particularly dynamic shaking of buildings during earthquakes 3 detailed prediction of seismic response and losses on each story of every building at any time period The proposed earthquake disaster simulation technique has been successfully implemented in the seismic performance assessments and earthquake loss predictions of several central cities in China The outcomes of the simulation as well as the feedback from the end users are encouraging particularly for the government officials and or administration department personnel with limited professional knowledge of earthquake engineering The book offers readers a systematic solution to earthquake disaster simulation of civil infrastructures The application outcomes demonstrate a promising future of the

proposed advanced techniques The book provides a long awaited guide for academics and graduate students involving in earthquake engineering research and teaching activities It can also be used by structural engineers for seismic design of supertall buildings

**Proceedings of SECON'19** Kaustubh Dasgupta,A. S. Sajith,G. Unni Kartha,Asha Joseph,P. E. Kavitha,K.I. Praseeda,2019-12-17 This book gathers peer reviewed contributions presented at the 3rd National Conference on Structural Engineering and Construction Management SECON 19 held in Angamaly Kerala India on 15 16 May 2019 The meeting served as a fertile platform for discussion sharing sound knowledge and introducing novel ideas on issues related to sustainable construction and design for the future The respective contributions address various aspects of numerical modeling and simulation in structural engineering structural dynamics and earthquake engineering advanced analysis and design of foundations BIM building energy management and technical project management Accordingly the book offers a valuable up to date tool and essential overview of the subject for scientists and practitioners alike and will inspire further investigations and research

**Earthquake Hazards and Mitigation** R. Ayothiraman,Hemanta Hazarika,2008 discusses the new developments in the field of earthquake engineering and allied areas gives information about present state of the art and current practices adopted globally in prediction and mitigation of earthquake hazards explores novel and innovative methods for prediction and mitigation of hazards considering the future earthquakes for building sustainable safe infrastructures and ensuring safety of community

**High Performance Computational Geomechanics and Its Application on Soil-structure-interaction Problems** Guanzhou Jie,2007 The second part of the PhD dissertation is devoted to the issue of parallel equation solving in large scale finite element simulations The efficiency of projection based iterative solvers and some popular direct solvers is investigated using equation systems extracted from SFSI simulations Complete parallel implementation has been developed within OpenSees using the consistent PETSc interface

*Finite Element Reliability and Sensitivity Methods for Performance-based Earthquake Engineering* Terje Haukaas,2004 The work in this report is motivated by the performance based engineering approach advocated by PEER A comprehensive object oriented software framework for finite element sensitivity and reliability analysis is developed The work builds on the existing software OpenSees The software framework is used to investigate and address challenges particular to nonlinear finite element reliability analysis As a result smoothed material models modifications in existing search algorithms and a search algorithm hitherto not used in reliability analysis are developed

**Computational Modeling of Progressive Collapse in Reinforced Concrete Frame Structures** Mohamed M. Talaat,2008 **PEER Center News** ,1998

*Experimental and Analytical Studies on the Seismic Response of Freestanding and Anchored Building Contents* Dimitrios A. Konstantinidis,2008

*Parallel Simulation of Structural Performance in Earthquakes* Jaesung Park,2004 **Parallel Finite Element Modeling of Earthquake Liquefaction Response** Liangcai He,Ahmed-Waeil Metwalli Elgamal,2006 **Report** ,2001 **Dissertation Abstracts International** ,2004 **Software Frameworks for the Computational**

**Simulation of Structural Systems** Michael Harrison Scott,2004      Continuous Hybrid Simulation with Geographically Distributed Substructures Gilberto Mosqueda,2003      **Plastic Domain Decomposition Method in Computational Geomechanics** Ritu Jain,2004      *Post-earthquake Traffic Capacity of Modern Bridges in California* Vesna Terzic,Božidar Stojadinović,2010 The test results were then used to calibrate a finite element model of a bridge column This bridge column model was incorporated into a hybrid model of a typical California overpass bridge and tested using the hybrid simulation technique The finite element model of the typical California overpass bridge was validated using the data from hybrid simulations The validated model of the typical bridge was used to evaluate its post earthquake truck load capacity in an extensive parametric study that examined the effects of different ground motions and bridge modeling parameters such as the boundary conditions imposed by the bridge abutments the location of the truck on the bridge and the amount of bridge column residual drift The principal outcomes of this study are the following findings      *Elements of Parallel Computing V.* Rajaraman,2006

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web from wheat germ protocol salk institute mobile lab step 1 obtain a numbered 50 ml conical vial with 10 ml of water write

your number here step 2 to the tube with 10 ml water add 1g 1 pinch of raw wheat germ the wheat germ should settle to fill  
1 2 the cone step 3 cap the tube and vigorously shake to mix for about 30 seconds

*dna extraction from wheat germ lab studylib net* - Feb 26 2022

web purpose the purpose of this lab is to extract dna from wheat germ iii hypothesis if you add wheat germ water soap and  
alcohol then the dna should appear iv materials 1 gram raw wheat germ 50 ml test tube 20 ml hot 50 60 deg c tap water  
frac14 teaspoon detergent soap paper towel 14 ml 91 alcohol v procedure 1