1 Publications

Most publications below are available electronically (some through links to \LaTeX sources and PDFs below). Copyright to material below is held by the publishers and by Authors (Boris Jeremić). Please treat this material in a way consistent with the "fair use" provisions of appropriate copyright law.

Books


Book Chapters


Papers in Refereed Journals

\LaTeX sources and PDFs are linked below


37. Régnier, Julie and Bonilla, Luis-Fabian and Bard, Pierre-Yves and Bertrand, Etienne and Hollender, Fabrice and Kawase, Hiroshi and Sicilia, Deborah and Arduino, Pedro and Amorosi, Angelo and Asimaki, Domniki and Boldini, Daniela and Chen, Long and Chiradonna, Anna and DeMartini, Florent and Ebrille, Marco and Elgamal, Ahmed and Falcone, Gaetano and Foerster, Evelyne and Foti, Sebastian and Garini, Evangelia and Gazetas, George and Gélis, Céline and Ghofrani, Alborz and Giannakou, Amalia and Gingery, James R. and Glinsky, Nathalie and Harmon, Joseph and Hashash, Youssef and Iai, Susumu and Jeremić, Boris and Kramer, Steve and Kontoe, Stavroulia and Kristek, Jozef and Lanzo, Giuseppe and Lernia, Annamaria di and Lopez-Caballero, Fernando and Marot, Marianne and McAllister, Graeme and Diego Mercerat, E. and Moczo, Peter and Montoya-Noguera, Silvana and Musgrove, Michael and Nieto-Ferro, Alex and Pagliaroli, Alessandro and Pisanò, Federico and Richterova, Aneta and Sajana, Suwal and Santisi d’Avila, Maria Paola and Shi, Jian and Silvestri, Francesco and Taiebat, Mahdi and Tropeano, Giuseppe and Verrucci, Luca and Watanabe, Kohei. International benchmark on numerical simulations for 1D, nonlinear site response...


**Proceedings of Refereed Conferences**


53. Hexian Wang, Han Yang, Sumeet Kumar Sinha, Yuan Feng, Chao Luo, David B McCallen and Boris Jeremić. 3D Non-Linear Earthquake Soil-Structure Interaction Modeling of Embedded Small Modular Reactor (SMR). In proceedings of Structural Mechanics in Reactor Technology (SMiRT) 24 conference, Busan, South Korea, August 20-25, 2017.

52. Sumeet Kumar Sinha, Yuan Feng, Han Yang, Hexiang Wang, Nebojša Orbović, David B McCallen and Boris Jeremić. 3D Non-Linear Modeling and Its Effects in Earthquake Soil-Structure Interaction In proceedings of Structural Mechanics in Reactor Technology (SMiRT) 24 conference, Busan, South Korea, August 20-25, 2017.


43. Mahdi Taiebat, Boris Jeremić, Yannis F. Dafalias. Prediction of seismically induced voids and pore fluid volume/pressure redistribution in geotechnical earthquake engineering. in Proceedings of the Sixty Third


10. Key Rosebrook, Dan W. Wilson Boris Jeremić and Bruce Kutter. Centrifuge Characterization and Numerical Modeling of the dynamic properties of Tire Shreds for Use as Bridge Abutment Backfill Fourth International Conference On Recent Advances In Geotechnical Earthquake Engineering And Soil Dynamics, March 26-31, 2001 San Diego, CA USA


Reports and Other Major Publications


**Technical Presentations**

Recent presentations are available (linked) in PDF below
Eighth Kwang-Hua Forum on Innovations and Implementations in Earthquake Engineering Research Area, State Key Laboratory of Disaster Prevention in Civil Engineering, International Laboratory for Earthquake Engineering (ILEE), Tongji University, Shanghai, China, 14-16 December, 2018. (PDF)


DOE/NRC Natural Phenomena Hazard Meeting, North Bethesda, MD, U.S.A. 23-24 October, 2018. (PDF)


133. Boris Jeremić. Real ESSI Simulator, Inelastic Modeling and Simulations for Soils, Contacts and Structures. Real ESSI Short Course, San Francisco, CA, USA, 12-14 December 2017. (Available to participants only)

132. Boris Jeremić. Real ESSI Simulator, Seismic Ground Motions. Real ESSI Short Course, San Francisco, CA, USA, 12-14 December 2017. (Available to participants only)

131. Boris Jeremić. Real ESSI Simulator, Intro, Setup and Staged Nonlinear Modeling. Real ESSI Short Course, San Francisco, CA, USA, 12-14 December 2017. (Available to participants only)


121. Boris Jeremić. Site Specific Dynamics of Structures: From Seismic Source to the Safety of Occupants and Content (Plenary Lecture). 6th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (CompDyn2015), Rhodes Island, Greece, 14-17 June 2017. (PDF)


119. Boris Jeremić. Динамика тла и конструкције при земљотресима, непоуздане модели, непоуздане параметри и теорија вероватноћа. (Dynamics of Soils and Structures During Earthquakes, Uncertain Models, Uncertain Parameters and Theory of Probability). Институт за Испитивање Материјала Србије и Грађевински Факултет Универзитета у Београду, Београд, Србија, 16-ти Децембар, 2016, Institute for Testing of Materials, and Civil Engineering Faculty of the University of Belgrade, Belgrade, Serbia, 16th December 2016. (PDF)

118. Boris Jeremić. On Modeling Uncertainty in Earthquake Soil Structure Interaction Analysis. Seventh Kwang-Hua Forum on Innovations and Implementations in Earthquake Engineering Research Area, State Key Laboratory of Disaster Prevention in Civil Engineering, International Laboratory for Earthquake Engineering (ILEE), Tongji University, Shanghai, China, 9 December, 2016. (PDF)
   (not for public distribution)

   Washington DC, 12 May, 2016.  
   (not for public distribution)

   (not for public distribution)

114. Boris Jeremić. Inelastic Earthquake Soil Structure Interaction Modeling and Simulations at UCD and LBNL.  
   IAEA, UN, Vienna. Austria, 24 February, 2016.  
   (not for public distribution)

   Series, University of California, Davis, California, 16 February, 2016.(PDF)

112. Boris Jeremić. Uncertainties in Modelling and Simulation of Earthquake Soils Structures Interaction. Earth-  
   quake Engineering Institute, University of Tokyo, Tokyo, Japan, 25 January, 2016.(PDF)

111. Boris Jeremić. Modelling and Simulation of Static and Dynamic Soils Structures Interaction Under Uncer-  
   tainty. Technical Seminar Series, Géodynamique et Structure, Bagneux, France, 23 November 2015.(PDF)

110. Boris Jeremić. Wavelet Based Synthetic Earthquake Sources for Path and Soil Structure Interaction Modeling:  
   Hazard Assessment of Nuclear Installations (BestPSHANI), 8 IAEA Headquarters, Vienna, Austria, 18-20 November 2015.(PDF)

   International Scientific Collaboration Meeting, Southwest Jiaotong University, Chengdu, China, 12-13 October 2015.(PDF)

   Soil Structure Interaction Behavior of NPPs). Structural Mechanics in Reactor Technology (SMiRT) 23 Conference,  
   Manchester, UK, 10-14 August, 2015.(PDF)

   Technology (SMiRT) 23 Conference, Manchester, UK, 10-14 August, 2015.(PDF)

   UC Pacific Rim Forum, Earthquake Resilience of Nuclear Facilities, University of California, Berkeley, California,  
   8-9 June 2015.(PDF)

105. Boris Jeremić. Dynamics of Soils and Structures under Uncertainty. 5th International Conference on  
   Computational Methods in Structural Dynamics and Earthquake Engineering (CompDyn2015), Crete Island,  
   Greece, 25-27 May 2015.(PDF)

104. Boris Jeremić. Earthquake Soil Structure Interaction Modeling and Simulation. Southern California Earth-  
   quake Center (SCEC), Workshop on Integration of 3D Nonlinear Site Effects in Physics-Based Ground Motion Simulations,  
   SCEC Headquarters, University of Southern California, Los Angeles, CA, U.S.A. 5th May 2015.(PDF)

   Energy Research and Development Working Group, USA-Japan (CNerdwG), meeting, Argonne National  
   Laboratory, Argonne II. U.S.A. 27th-29th January, 2015.(PDF)


98. Boris Jeremić. PRENOLIN Meeting Presentation. PRENOLIN 3rd Workshop, Nice, France, April 7th-8th, 2013.(PDF)

97. Boris Jeremić. INL SSI Steering Committee Meeting. Idaho Falls, Idaho, USA, January 15th-16th, 2013.(PDF)


95. Boris Jeremić. PRENOLIN Meeting Presentation. PRENOLIN 2nd Workshop, Nice, France, November 4th-5th 2013. 2013.(PDF)


84. Boris Jeremić, Nima Tafazzoli, Nebojša Orbović and Andrei Blahoianu. Amplification of Seismic Input due to 1D, 2D and 3D effects, and their Importance for NPP Structures. 21st Structural Mechanics in Reactor Technology (SMiRT) Conference, New Delhi, India, November 6-11, 2011. (PDF)

83. Boris Jeremić, Nima Tafazzoli, Nebojša Orbović and Andrei Blahoianu. 3D Analysis of the Influence of Varying Rock/Soil Profiles on Seismic NPP Response. 21st Structural Mechanics in Reactor Technology (SMiRT) Conference, New Delhi, India, November 6-11, 2011. (PDF)


81. Boris Jeremić, Annie Kammerer, Nima Tafazzoli and Babak Kamrani. The NRC ESSI Simulator. 21st Structural Mechanics in Reactor Technology (SMiRT) Conference, New Delhi, India, November 6-11, 2011. (PDF)


74. Boris Jeremić. Factors of Safety for 3D vs 2D for Curved Section of the Wolf Creek Dam. Wolf Creek Dam Foundation Remediation Project. Wolf Creek Dam site, Kentucky, 19 – 21 April 2010, (not for public distribution)


69. Boris Jeremić, Kallol Sett, Lev Kavvas and Suzana Koprivica. Решение эласто-пластичного проблема у простру вероватноа и примена на практиче проблеме (Solution for the probabilistic elastic–plastic problem and its application to practical problems) UNION University, Belgrade, Serbia, 29th June, 2009.(PDF)


65. Boris Jeremić. Verification and Validation in Computational Geomechanics, GheoMat: Deformation and Failure of Geomaterials, a Multidisciplinary Scientific Workshop, Masseria Salamina, Brindisi, Italy, 14-19 June 2009.(PDF)

64. Boris Jeremić. High Fidelity, Large Scale Modeling and Simulation, GheoMat: Deformation and Failure of Geomaterials, a Multidisciplinary Scientific Workshop, Masseria Salamina, Brindisi, Italy, 14-19 June 2009.(PDF)


59. Boris Jeremić. Soil Uncertainty and Seismic Ground Motion Fourth Geotechnical Earthquake Engineering and Soil Dynamics Conference, Sacramento, California, May 19-22st, 2008.(PDF)


53. Boris Jeremić. Параалелна рачунарска метода прорацна интеракције земљотреса, тла и конструкцио. (Parallel Computational Method for Simulations of Earthquake, Soil and Structures), University of Belgrade, Faculty of Civil Engineering Seminar Series, Belgrade, Serbia, June 5th 2007. (PDF)


34. Boris Jeremić. Interakcija konstrukcije i tla u toku zemljotresa: numerička analiza. (Structure-soil interaction during earthquakes: numerical analysis) Građevinski Fakultet Univerziteta u Beogradu, Decembar, 2003 (Civil Engineering Faculty of the University of Belgrade, December 2003). (PDF)


