Contents

ië indicates that online material is available in the electronic edition of BSSA

Articles

Predictive Model and Probabilistic Assessment of Sliding Displacement for Regional Scale Seismic Landslide Hazard Estimation in Iran
   Yaser Jafarian, Ali Lashgari, and Abdolhosein Haddad
   1581

Features of Seismic Sequences Are Similar in Different Crustal Tectonic Regions
   Angela Stallone and Warner Marzocchi
   1594

Forecasting Earthquakes by Hybrid Model of Pattern Informatic and PageRank Methods
   Soghra Rezaei, Hanieh Moghaddasi, Amir Hossein Darooneh, and Mehdi Zare
   1605

Injection-Induced Seismicity and Fault-Slip Potential in the Fort Worth Basin, Texas
   Peter H. Hennings, Jens-Erik Lund Snee, Johnathon L. Osmond, Heather R. DeShon, Robin Dommesse, Elizabeth Horne, Casee Lemons, and Mark D. Zoback
   1615

Stress Drops and Directivity of Induced Earthquakes in the Western Canada Sedimentary Basin
   Joanna M. Holmgren, Gail M. Atkinson, and Hadi Ghofrani
   1635

Microseismic Focal Mechanisms and Implications for Changes in Stress during the 2014 Newberry EGS Stimulation
   Ana C. Aguiar and Stephen C. Myers
   1653

On the Portability of $M_L$–$M_c$ as a Depth Discriminant for Small Seismic Events Recorded at Local Distances
   Monique M. Holt, Keith D. Koper, William Yeck, Sebastiano D’Amico, Zongsan Li, J. Mark Hale, and Relu Burlacu
   1661

Generating Drift-Free, Consistent, and Perfectly Spectrum-Compatible Time Histories
   Lanlan Yang, Wei-Chau Xie, Weiya Xu, and Binh-Le Ly
   1674

Separating Signal from Noise and from Other Signal Using Nonlinear Thresholding and Scale-Time Windowing of Continuous Wavelet Transforms
   Charles A. Langston and Seyed Mostafa Mousavi
   1691

Earthquake-Scaling Relationships from Geodetically Derived Slip Distributions
   Clayton M. J. Brengman, William D. Barnhart, Emma H. Mankin, and Cody N. Miller
   1701

An Adjoint Technique for Estimation of Interstation Phase and Group Dispersion from Ambient Noise Cross Correlations
   Rhys Hawkins and Malcolm Sambridge
   1716

Model Misfit Minimization
   Yuanyuan Fang, Ying Zhou, and Zhenxing Yao
   1729

Kinematic Source Modeling for the Synthesis of Broadband Ground Motion Using the f-k Approach
   Zelin Cao, Xiaxin Tao, Zhengru Tao, and Aiping Tang
   1738
A Parametric Investigation of Near-Fault Ground Strains and Rotations Using Finite-Fault Simulations  
Yenan Cao and George P. Mavroeidis  

1758 ©

Pore Water Pressure Response of Fully Saturated Soil Beds during Earthquake–Tsunami Multi-Hazards  
Yingqing Qiu and Henry Benjamin Mason  

1785 ©

Energy Flux Approach for Dynamic Analysis of Structures  
N. Merve Çağlar and Erdal Şafak  

1797 ©

Evaluation of Building Collapse Risk and Drift Demands by Nonlinear Structural Analyses Using Conventional Hazard Analysis versus Direct Simulation with CyberShake Seismograms  
Nenad Bijelić, Ting Lin, and Gregory G. Deierlein  

1812 ©

Parametric Study on the Interpretation of Wave Velocity Obtained by Seismic Interferometry in Beam-Like Buildings  
Philippe Guéguen, E. Diego Mercerrat, and Felipe Alarcon  

1829 ©

Site Classification Method Based on Geomorphological and Geological Characteristics and Its Application in China  
Xiaojian Li, Bingbing Jing, Chen Liu, and Jianming Yin  

1843 ©

An Examination of Amplification and Attenuation Effects in the Atlantic and Gulf Coastal Plain Using Spectral Ratios  
Zhen Guo and Martin C. Chapman  

1855 ©

$r_0$ and Broadband Site Spectra in Southern California from Source Model-Constrained Inversion  
Alexis Klimasewski, Valerie Sahakian, Annemarie Baltay, John Boatwright, Jon B. Fletcher, and Lawrence M. Baker  

1878 ©

The Wilmington Blind-Thrust Fault: An Active Concealed Earthquake Source beneath Los Angeles, California  
Franklin D. Wolfe, John H. Shaw, Andreas Plesch, Daniel J. Ponti, James F. Dolan, and Mark R. Legg  

1890 ©

Rupture Branching Structure of the 2014 $M_w$ 6.0 South Napa, California, Earthquake Inferred from Explosion-Generated Fault-Zone Trapped Waves  
Yong-Gang Li, Rufus D. Catchings, and Mark R. Goldman  

1907 ©

Joint Body- and Surface-Wave Tomography of Yucca Flat, Nevada, Using a Novel Seismic Source  
Liam D. Toney, Robert E. Abbott, Leiph A. Preston, David G. Tang, Tori Finlay, and Kristin Phillips-Alonge  

1922 ©

Azimuthally Dependent Seismic-Wave Coherence at the Source Physics Experiment Large-N Array  
Andréa Darrh, Christian Poppeliers, and Leiph Preston  

1935 ©

Spectral Characteristics of Daily to Seasonal Ground Motion at the Piñon Flats Observatory from Coherence of Seismic Data  
Lei Qin, Frank L. Vernon, Christopher W. Johnson, and Yehuda Ben-Zion  

1948 ©

Upper-Crustal Anisotropy of the Conjugate Strike-Slip Fault Zone in Central Tibet Analyzed Using Local Earthquakes and Shear-Wave Splitting  
Chenglong Wu, Xiaobo Tian, Tao Xu, Xiaofeng Liang, Yan Chen, Gaohua Zhu, Jose Badal, Zhiming Bai, Guiping Yu, and Jiwen Teng  

1968 ©

The Crustal Seismicity of the Western Andean Thrust (Central Chile, 33°–34° S): Implications for Regional Tectonics and Seismic Hazard in the Santiago Area  
Jean-Baptiste Ammirati, Gabriel Vargas, Sofia Rebolledo, Rachel Abrahami, Bertrand Potin, Felipe Leyton, and Sergio Ruiz  

1985 ©
<table>
<thead>
<tr>
<th>Title</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seismicity of the Arctic in the Early Twentieth Century: Relocation of the 1904–1920 Earthquakes</td>
<td>2000</td>
</tr>
<tr>
<td>Dynamic Rupture Simulations of the 1920 $M_s$ 8.5 Haiyuan Earthquake in China</td>
<td>2009</td>
</tr>
<tr>
<td>An Earthquake Nest in Cascadia</td>
<td>2021</td>
</tr>
<tr>
<td>A Regionalized Seismicity Model for Subduction Zones Based on Geodetic Strain Rates, Geomechanical Parameters, and Earthquake-Catalog Data</td>
<td>2036</td>
</tr>
<tr>
<td>Probabilistic Seismic Hazard Analysis of Victoria, British Columbia: Considering an Active Fault Zone in the Nearby Leech River Valley</td>
<td>2050</td>
</tr>
<tr>
<td>Efficient Propagation of Epistemic Uncertainty in the Median Ground-Motion Model in Probabilistic Hazard Calculations</td>
<td>2063</td>
</tr>
<tr>
<td>Assessing Predictive Capability of Ground-Motion Models for Probabilistic Seismic Hazard in Iran</td>
<td>2073</td>
</tr>
<tr>
<td>Summary of the BA18 Ground-Motion Model for Fourier Amplitude Spectra for Crustal Earthquakes in California</td>
<td>2088</td>
</tr>
<tr>
<td>On the Ground-Motion Models for Chinese Seismic Hazard Mapping</td>
<td>2106</td>
</tr>
<tr>
<td>Short Notes</td>
<td></td>
</tr>
<tr>
<td>Dynamic Analysis of a Large Freestanding Rock Tower (Castleton Tower, Utah)</td>
<td>2125</td>
</tr>
<tr>
<td>Improved Implementation of Rupture Location Uncertainty in Fault Displacement Hazard Assessment</td>
<td>2132</td>
</tr>
<tr>
<td>Comment and Reply</td>
<td></td>
</tr>
<tr>
<td>Comment on “Broadband Ground-Motion Simulation of the 2011 $M_w$ 6.2 Christchurch, New Zealand, Earthquake” by H. N. T. Razafindrakoto, B. A. Bradley, and R. W. Graves</td>
<td>2138</td>
</tr>
<tr>
<td>Reply to “Comment on ‘Broadband Ground-Motion Simulation of the 2011 $M_w$ 6.2 Christchurch, New Zealand, Earthquake’ by H. N. T. Razafindrakoto, B. A. Bradley, and R. W. Graves” by Guidotti et al.</td>
<td>2139</td>
</tr>
<tr>
<td>Errata</td>
<td></td>
</tr>
<tr>
<td>Rayleigh-Wave H/V via Noise Cross Correlation in Southern California</td>
<td>2140</td>
</tr>
<tr>
<td>A Waveform Detector that Targets Template-Decorrelated Signals and Achieves Its Predicted Performance, Part I: Demonstration with IMS Data</td>
<td>2142</td>
</tr>
</tbody>
</table>