

## The Best of 2017: Top 50 — *Finalists Round One*

### Authors and Readers

*All authors and readers of the  
Electronic Journal of Geotechnical Engineering  
Worldwide, led by Mete Öner*

#### Bund 1

[\[2017.0004\]](#) George Fernandes Azevedo, Hernán Eduardo Martínez Carvajal, Juan Felix Rodriguez Rebolledo, Newton Moreira de Souza, and André Pacheco de Assis: “Landslide Susceptibility Mapping Using GIS and Probabilistic Methods”

[\[2017.0005\]](#) Eleyas Assefa, Dr. Li Jian Lin, Dr. Costas I. Sachpazis, Dr. Deng Hua Feng, Dr. Sun Xu Shu, and Xiaoliang Xu: “Slope Stability Evaluation for the New Railway Embankment using Stochastic Finite Element and Finite Difference Methods”

[\[2017.0012\]](#) Rahman Daraei and Shokrollah Zare Guochen Liu, Lei Wang, Lin Jia, and Ling Jiang: “Influence of Water Content on Hazard Warning Levels in the Tunnels Excavated in Weak Rocks”

#### Bund 2

[\[2017.0037\]](#) Adnan Zainorabidin and Habib Musa Mohamad: “Engineering Properties of Integrated Tropical Peat Soil in Malaysia”

[\[2017.0048\]](#) Zengqiang Yang, Zheng Zheng, Chang Liu, Yongqiang Zhao, Hengzhong Zhu: “Coal Pillar Inducing Rock Burst in L-Shaped Zone and Prevention Technology”

[\[2017.0051\]](#) Dr. Xinggao Li: “Using Least Squares Support Vector Machine to Predict the Maximum Ground Surface Settlement Caused by Shield Tunneling”

### **Bund 3**

[\[2017.0066\]](#) Rejane Albuquerque: “Temporal evolution of occupation and land use in an area of risk slope's in the city of Jabotão dos Guararapes – Brazil”

[\[2017.0076\]](#) Li Ke: “Continuous Structure in the Application of the Diagonal Bracing Composite Supporting Structure”

### **Bund 4**

[\[2017.0096\]](#) Wang Shui-jiang, Yang Kui: ‘Stabilization of Pile Foundation in Water-Rich Cobble Ground with Curtain Grouting’

[\[2017.0098\]](#) Aristófanés Matias Gomes da Silva, Yêda Vieira Póvoas Tavares: “Gypsum Plaster Mortar Projection: Rheological Analysis”

[\[2017.0099\]](#) Xu Jiang-bo, Changgen Yan, Hang Yuan, Guanjun Jiang, Faquan Wu, Yongli Xie: “The Blasting Vibration of Deep Buried Soft Rock Tunnel”

### **Bund 5**

[\[2017.0131\]](#) Na Xiao: “An Investigation of CO<sub>2</sub>-Water-Rock Interactions during CO<sub>2</sub> Flooding”

[\[2017.0149\]](#) Wang Chengzhi: “A Mesoscopic Damage Model of the Geogrid-Reinforced Wall”

### **Bund 6**

[\[2017.0164\]](#) Dr. Xu Mengtang                    c 3/21 pp 1703-1716 p 3/27/2017:2 i++ xmtcumt@126.com  
Fracture Development Evolution Mechanism of Overlying Strata on Exploitation of Close Distance Coal Seams

### **Bund 7**

[\[2017.0192\]](#) Jiaguo Xia                            c 4.16 pp 2411-2426 P 4/17 i+ jgxia@mail.iggcas.ac.cn  
Influence of Strength Difference between Block and Matrix on the Mechanical Property of Block-in-Matrix Soils: An Experimental Study

[\[2017.0212\]](#) Dr Liu Hui: “Application of Curtain Grouting in the Pile Foundation Construction in Watery Strata”

## **Bund 8**

[\[2017.0221\]](#) Liu Zhenping: “Application of Digital Image Deformation Measurement Technology into Face Rockfill Dam Shaking Table Model Test”

[\[2017.0216\]](#) Yingying Wang: “Control of Overburden Deformation by Paste-Like Roadway Backfill Mining”

[\[2017.0226\]](#) Yulan Wang: “The application of anti-slide pile with anchor cable in the protection of a World Cultural Heritage Site of Ming-Jing Tai”

## **Bund 9**

[\[2017.0265\]](#) Dr Jafar Rahnamarad: “Integration of Multi-Criteria Decision Matrix and Geographical Information System to Site Selection for an Underground Dam”

[\[2017.0264\]](#) Reza Jamshidi Chenari: “Tire Shreds and Tire Crumbs Inclusion: Contrast Effects on Bearing Capacity of Sand”

[\[2017.0269\]](#) Edy Purwanto: “Design of Landfill Structure Using Geosynthetic Clay Liner (GCLs) Based on Laboratory Study”

[\[2017.0270\]](#) Edy Purwanto: “Geotechnical Aspects of Bored Pile Construction on Clayshale”

## **Bund 10**

[\[2017.0282\]](#) Carlos J. Sainea-Vargas: “Numerical and Probabilistic Analyses of Deep Excavations in Soft Soils” by Carlos J. Sainea-Vargas and Mario C. Torres-Suárez

[\[2017.0304\]](#) Surender Singh: “Soil Nailing for Stability of Slopes”

[\[2017.0285\]](#) Ramin Ram: “Numerical Study on the Effect of Convex Corner on the Behavior of Deep Excavation” by Hasan Imeni, Ali Ghanbari, Farshad Rashidi, and Hadi Shahir

[\[2017.0288\]](#) Nureddin Usama Koguna, Khiruddin A., Moh’d Nawawi, and Amin E.K.: “Magnetic Survey for the Delineation of Concrete Pillars for Site Characterization”

## **Bund 11**

[\[2017.0333\]](#) Samad Nazari: “Dynamic Analysis of Stability and Liquefaction in Dams in Unsaturated Soil Mode”

[\[2017.0336\]](#) Seyyed Mosayeb Eftekhari, Dr. Mohsen Etemadi, Dr. Seyyed Mahmoud Hoseini: “The Impact of the Ground Geometry on Dynamic Applied Load over Buried Pipelines”

[\[2017.0324\]](#) Desiani & Rahardjo: “Characterization of Bandung Soft Clay (by Characterization of Bandung Soft Clay)”

## **Bund 12**

[\[2017.0363\]](#) Donald Chimobi: “Reliability Assessment of Supports in Pad Foundation Column-Flat Plate Connection using Finite Element Analysis”

[\[2017.0361\]](#) Charles Chinwuba Ike: “Variational Formulation of the Mindlin Plate on Winkler Foundation Problem”

## **Bund 13**

[\[2017.0368\]](#) Dr. Raju Sarkar: “Application of Soil Nailing for Landslide Mitigation in Bhutan: A Case Study at Sorchen Bypass”

[\[2017.0379\]](#) Reza Jamshidi Chenari: “Dynamic Properties of Sand-Tire Crumb Mixtures with Large Cyclic Direct Shear Apparatus”

## **Bund 14**

[\[2017.0410\]](#) Jia Zhenzhen, Ye Qing, Lu Yi: “Numerical Simulation of Fracture Evolution Characteristics of Overlying Strata in the Fully Mechanized Collapsing Working Face with Large Mining Depth and Dip”

[\[2017.0413\]](#) Wen-hui Zhao et al.: “Experimental Study on the Frost Resistance of Cast-in-situ Foamed Concrete”

[\[2017.0416\]](#) Maliheh Salari and Abdollah Yazdi: “Engineering Classification of Genou Limestone Mass”

[\[2017.0417\]](#) Zhen-Feng Qiu, Shen-Chuan Tang, He-Jun Chai, Jun-Jie Wang : “Deformation Modulus of a Thick Alluvium Layer from in-situ Load Test”

[\[2017.0421\]](#) Søren Dam Nielsen: “Effect on the Grain Size Distribution when Preparing Sand Using Poker Vibrators”

[\[2017.0400\]](#) Stephanus Aleksander, Indrasurya B. Mochtar, and Widya Utama: “The Measurements of Water Intrusion through Cracks Propagation Inside Slopes to Explain the Cause of Slope Failure—Case Study of Embankment in the Sanggu-Buntok Airport, Central Kalimantan, Indonesia”

## **Bund 15**

[\[2017.0430\]](#) Yuan-chao Ou, Ping-song Zhang, Rongxin Wu: “Dynamic Testing Applications for the Damage Height in Overburden Rock under Mining Conditions”

[\[2017.0431\]](#) Morteza Mirzai, Eisa Mataji, Mohammad Reza Nora and Kazem Shabani Gorji: “Architecture Elements Analysis of the Fluvial Sediment in Dez and Karkheh Rivers, Khuzestan, Iran”

[\[2017.0432\]](#) Morteza Mirzai, Eisa Mataji, Mohammad Reza Nora and Kazem Shabani Gorji: “Mineralogy, Geochemistry and Provenance of Alluvial Placers of Karkheh and Dez Rivers in Khuzestan Province, Iran”

[\[2017.0434\]](#) Sun Wen-biao: “Hydration and Hardness Features of Green Concrete”

[\[2017.0435\]](#) Supandi, Z Zakaria, E Sukiyah, A Sudrajat: “Empirical Relations of Sandstone Exposure Time and Mechanical Properties at Kusan Blok, South Borneo Indonesia”

[\[2017.0436\]](#) Namjun Cho, Junkee Rhee, and Hyun-Ki Kim: “Evaluation of the Seismic Hazard for New City Development Planning”

[\[2017.0438\]](#) Aleksej Aniskin, Khrystyna Moskalova, and Željko Kos: “Wall Friction Angle of Grain Material With Respect to Dominant Particle Orientation”

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