

## ANNUAL REPORT 2018

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The Civil Engineering Journal published by Czech Technical University in Prague, Faculty of Civil Engineering presents the latest progress in research and development in civil engineering.

### PERFORMANCE OVERVIEW

Statistics shows more than 10.000 unique visits to the [civilengineeringjournal.cz](http://civilengineeringjournal.cz) since the webpage launch. We were experiencing large visit increase from far east (e.g. China), smaller from south asia (e.g. India, Pakistan) and near eastern countries (e.g. Iran, Turkey). Visits from Czech Republic and other European countries show similar trends as during previous years.

### 2018 CONTENT REPORT

In 2018 the Civil Engineering Journal has published four issues with 49 original manuscripts, 26 manuscripts have been withdrawn. It can be derived that the 35% of articles were withdrawn. Most authors come from China and the Czech Republic, there have also been published three manuscripts from India, two from Egypt and one from Belarus, Pakistan, Turkey and Iran. Number of manuscripts in issue varied from nine in issue 2 to 16 in issue 3, average number of articles per issue is 12.

A list of published manuscripts with authors and their affiliation follows:

Volume	Manuscript title	Author(s)	Country
1	Uncertainty of qualitative results of chemical analyses in fire safety	Otto Dvořák	Czech Republic
1	Experimental study on the seismic behavior of a shear wall with concrete-filled steel tubular frames and slits	Qing Han, Zeyu Gao, Yaohong Wang, Xin Wang, Zimo Bai	China
1	Stabilization of expansive soil using potassium chloride	Rajesh Prasad Shukla, Niraj Singh Parihar, Ashok Kumar Gupta	India
1	Post tensioning the connection region of precast-posttension bridge girders for continuity	Yanmin Jia, Mutaz M. M. Taha, Yanmin Jia	China
1	Metric survey documentation as a basis for understanding the development of rural architecture	Zdeněk Poloprutsky	Czech Republic
1	Laboratory Evaluation on Performance of Glass Fiber Reinforced Plastic Mortar Pipe Culverts	Huawang Shi, Lianyu Wei	China
1	Experimental study on the stability of surrounding rock in tunnel blasting construction	Hongxian Fu, Hong Kong, Jinke Wu	China
1	Pseudo-dynamic test of CFST bridge pier under different ground excitations	Raghavendra Yadav, Raghavendra Yadav, Baochun Chen, Huihui Yuan, Zhibin Lian	China

1	Searching Unground Fan induced Recirculation in a Complicated Mine Ventilation Network	Lidong Wang	China
1	Seismic Response Analysis of Long-span Cable-stayed Bridge with Nonlinear Viscous Dampers under Different Periodic Seismic Waves	Chen Baiben, Feng Zhongren, You Huimin	China
1	A study on seismic vulnerability analysis of concrete gravity dam with strain rate effect	Hai-tao Wang, Jiayu Shen, Feng Wu, Zhiqiang An, Tianyun Liu	China
1	Modelling And Analysis Of An Irregular Railway Track System For Computation Of Critical Velocity For Limiting Vertical Acceleration	Akshay Gupta, Puja Deka, Nirmalendu Debnath	India
2	Seismic liquefaction analysis of capital region of Andhra Pradesh state, India	G.V. Rama Subba Rao, B. Usha Sai	India
2	Monitoring dynamic global deflection of a bridge by monocular digital photography system	Guojian Zhang, Guangli Guo, Chengxin Yu, Long Li	China
2	Double size fulljet field rainfall simulator for complex interdrill and rill erosion studies	Petr Kavka, Luděk Strouhal, Barbora Jáchymová, Josef Krása, Markéta Báčová, Tomáš Laburda, Tomáš Dostál, Jan Devátý and Miroslav Bauer	Czech Republic
2	Nonlinear finite element analysis of insulated FRP strenghtened reinforced concrete columnd subjected to fire	Osama El-Mahdy, Gehan Hamdy, Mohamed Hisham	Egypt
2	Discrete element modeling of strength properties and failure modes of QH-E lunar soil simulant at low confining stresses	Li Yun-LiLi Yun-Li, Zou Wei-Lie, Wu Wen-Ping, Chen Lun	China
2	To simplified models of column web panel in shear	Marta Kuříková, František Wald, Kamila Cábová	Czech Republic
2	Impact of Creep on Flange Clamping Force	Jan Plášek, Tomáš Ridoško, Jan Ekr, Jiří Kytýr, Roman Gratza	Czech Republic
2	Periodically repeating sound as a disruptive agent in building acousic	Jaroslav Hejl	Czech Republic
2	Numerical Simulation of Stress Wave Propagation inSAP Concrete	Zhenqun Sang, Zhiping Deng, Jianglin Xi, Huibin Yao, Jiang Wu	China
3	Non-destructive testing and roentgen diffraction analysis of high-temperature degraded concrete	Richard Dvořák, Zdeněk Chobola	Czech Republic
3	Bond performance of deformed rebar in steel fiber reinforced lightweight - aggregate concrete affected by multifactors	Mingshuang Zhao, Xiaoyan Zhang, Kai Yan, Teng Fei, Shunbo Zhao	China
3	Temperature Analysis of High Latitudes and Low Altitude Island Permafrost during the Construction of CFG Pile	Liu Jin-liang, Jia Yan-min	China
3	The effect of pore distribution in historic masonry on the grouting method and	Jiří Witzany, Radek Zigler, Klára Kroftová, Tomáš Čejka, Jan Kubát, Milan	Czech Republic

	grouting mix selection	Holický, Jiří Karas	
3	Study on the seismic performance of recycled aggregate concrete-filled lightweight steel tube frame with different assembly joints	Liu Wenchao, Cao Wanlin, Qiao Qiyun, Ren Lele, Wang Ruwei	China
3	Study on the Effect of Three Kinds of Filter Aid on the Dehydration Performance of Microcystis Aeruginosa	YANG Zong-zheng, ZHANG Meng-yao, CAO Jing-guo, LIU Honglei, HAN Chao-xi, TIAN Xin	China
3	The effect of gamma-ray irradiation on mechanical properties of early-age cement mortar	Yuliia Khmurovska, Petr Štemberk, Svyatoslav Sikorin, Yuliya Kaladkevich, Eryk Pavalanski and Viktor Fatseyeu	Czech Republic, Belarus
3	Study on A New Design of Grouting Pump for Managing Water Inrush in Karst Tunnels	Li Shucaï, Li Mengtian, Zhang Xiao, Zhang Qingsong	China
3	Evaluation of Flexural Capacity and Ductility on High-strength Concrete Beams Reinforced with FRP Rebar and Steel Fiber	Jinzhang Li	China
3	Paraloid B72 nanodispersion preparation technology and its possibilities for use in the monument care	David Škoda, Renata Pučálíková, Ivo Kuřitka, Klára Kroftová	Czech Republic
3	The Research on the Method of Risk Classification of Major Hazard in Production is Suitable for Supervision	Hao Yu, Sun Chaolun	China
3	Reliability Evaluation in Construction Quality Based on Integrated Vague Set and Fuzzy Language Operator Hybrid Method	Xiaoping Bai, Hongyue Zhao	China
3	Historical orthophotos – base for Rural transformation exploration	Jindřich Hodač, Anna Zemánková	Czech Republic
3	The effect of axial compression ratio on seismic behavior of infilled RC frames with profield steel sheet bracing	FENG Ningning, WU Changsheng, MA Junyue, MAO Xiaotian	China
3	In-service condition assessment of long-span bridges based on traffic load effects using monitoring data	Rui-feng Nie, Yi-jie Huang, Song-hui Li	China
3	Optimization of reclaimed asphalt and FT paraffin for permanent deformation and moisture damage of asphalt mixes	Fazal Haq, Arshad Hussain, Muhammad Bilal Khurshid	Pakistan
4	Study on the settlement of tunnel bottom and rock mass pressure based on curved beam on elastic foundation theory	Haobo Fan, Siyue He, Dongping Zhao <sup>1</sup> , Xiuling Wang, Hao Wang, Hao Ding	China
4	Application of geostatistics in the estimation of Sujishan graphite deposits, Mongolia	Huang Song, Huaming An	China
4	Examination of the usability of basalt aggregate in sifcon	Metin İpek	Turkey
4	Application of machine vision	Qingzhe Zhang, Zhi Qin	China

	technology in road detection		
4	Parametric analysis of dynamic behavior of RC columns with confinement effect of overlapping hoops subjected to lateral rapid loadings	Xiang Zeng, Bin Xu	China
4	Investigating the seismic parameters of RC frames rehabilitated by eccentrically bracing with vertical link	Faramarz Noruzi, Heydar Dashti Naserabadi, Hosein Nematian Jelodar, Hosein Dorvar	Iran
4	Numerical study of the wake flow of wind turbines with consideration of the inflow turbulence	Xiaoyu Luo, Shengyu Lu	China
4	Influence of Vibration on Performance of Recycled Concrete	Hong-quan Li, Li-min Wei, Sheng-yang Feng, Zhi Chen	China
4	Numerical Investigation of The Performance Of Insulated FRP-Strengthened Reinforced Concrete Beams in FIRE	Osama El-Mahdy, Gehan Hamdy, Moustafa Abdullah	Egypt
4	Influence of vibration on performance of recycled concrete	Ergang Xiong, Tian Li, Sheliang Wang, Yujiang Fan	China
4	Diffusion characteristics of grout in layered fault medium	Li Peng, Zhang Xiao, Wang Qian, Zhang Qingsong	China
4	3D dynamic time-history response analysis of an island platform metro station in loess area	Wang Ke, Siyue He, Guanglong Zhang	China

## CONCLUSION

The fourth year of the new Civil Engineering Journal has been very successful. The journal's awareness worldwide is constantly growing and there are more website visits than ever before. The number of articles has risen to 49 (5 more than in previous year) and it can be said, that Civil Engineering Journal has strengthened its position among authors from China.

## ACKNOWLEDGEMENT

The Civil Engineering Journal editorial staff would like to thank all members of the editorial board for their support as well as to members of the National Technical Library - Lenka Němečková and Iva Adlerová - for their time and all the information and work provided. The editorial staff would also like to thank Lucie Bubníková for language corrections.