

LIST OF PAPERS BY MEMBERS OF Engineering for Resilient Society Research Group (ERS)

Yong Yang, Kazuto Matsukawa, Ho Choi, Yoshiaki Nakano: Experimental study on the residual axial load-carrying capacity of shear-damaged RC columns, *Journal of Advanced Concrete Technology*, volume 16, Japan Concrete Institute, pp.97-109, February 2018
DOI10.3151/jact.16.97

Tatsuya Asai, Gary K. Chock, Yoshiaki Nakano, Ian N. Robertson: Tsunami Resilient Designs of Vertical Evacuation Buildings in Japan and the USA, *Proceedings of the Twenty-eighth (2018) International Ocean and Polar Engineering Conference*, Sapporo, Japan, pp.686-693 June 2018.

Yong Yang, Kazuto Matsukawa, Ho Choi and Yoshiaki Nakano: Study of the residual axial capacities of shear-damaged reinforced concrete columns: Part I- development of an evaluation model *Advances in Structural Engineering*, SAGE JOURNALS, July 2018.
DOI10.1177/1369433218787714

Kazuto Matsukawa and Masaki Maeda: Methodology to evaluate the collapse limit state of R/C frames based on the seismic response spectrum, *Japan Architectural Review*, Wiley, August 2018.
DOI10.1002/2475-8876.12058

Yong Yang, Kazuto Matsukawa, Ho Choi and Yoshiaki Nakano: Study of the residual axial capacities of shear-damaged reinforced concrete columns: Part 2—experimental verification of an evaluation model *Advances in Structural Engineering*, SAGE JOURNALS, August 2018 .
DOI: 10.1177/1369433218790770

Alberto, Y., Kyokawa, H., Otsubo, M., Kiyota, T. and Towhata, I. (2018): Reconnaissance of the 2017 Central Mexico Earthquake, *JSCE Disaster Reports*, FS2018-E-0001.

Alberto, Y., Otsubo, M., Kyokawa, H., Kiyota, T. and Towhata, I. (2018): Reconnaissance of the 2017 Puebla, Mexico earthquake, *Soils and Foundations*, Vol. 58, No. 5, pp. 1073-1092.

Kiyota, T. and Chiehyu, W. (2018): Evaluation of liquefaction resistance from in situ and laboratory-measured shear wave velocity, Proc. of 5th Geotechnical Earthquake Engineering and Soil Dynamics Conference, doi.org/10.1061/9780784481455.023.

Chiaro, G., Umar, M., Kiyota, T. and Massey, C. (2018): The Takanodai Landslide, Kumamoto, Japan: Insights from Post-Earthquake Field Observations, Laboratory Tests, and Numerical Analyses, Proc. of 5th Geotechnical Earthquake Engineering and Soil Dynamics Conference, doi.org/10.1061/9780784481486.011.

Umar, M., Chiaro, G., Kiyota, T. and Miyamoto, H. (2018): Monotonic and cyclic undrained behavior of Kumamoto Aso pumice soil by triaxial and torsional shear tests, Proc. of 16th European Conference on Earthquake Engineering, ID: 11577.

Kiyota, T., Kajihara, K. and Okuda, H. (2018): A hazard map for liquefaction-induced road subsidence, Proc. of 16th European Conference on Earthquake Engineering, ID: 11567.

Xu, Z., Munoz, H., Oloya, A. R. and Kiyota, T. (2018): Cell-size effect on the pullout resistance of square-shaped geocells embedded in gravel, Proc. of 11th International Conference on Geosynthetics, ID: S10-04.

K. Kawaguchi, T. Sato, X. Yang and N. Seo: Development of a Deployable Geodesic Full Sphere, Journal of the International Association for Shell and Spatial Structures, Vol.60 No.1,, 2019.3, pp.35-46

L. Wang, K. Kawaguchi, J. Xu and Q. Han: Effects of transverse constraints on the longitudinal compressive strength of unidirectional CFRP pultruded plates and rods, Composite Structures, Vol.207, 2019.1, pp.740-751

J. Hu, K. Kawaguchi and J. Ma: Retractable membrane ceilings for indoor thermal environment of residential buildings, Building and Environment, Vol.146, 2018.12, pp.289-298

T. Zhang, K. Kawaguchi and M. Wu: A folding analysis method for origami based on the frame with kinematic indeterminacy, Mechanical Sciences, Vol.146-147, 2018.12, pp.234-248.

K. Kawaguchi, K. Mizutani, J. Fujiwara, K. Imai and K. Honma: Report of design and construction of tower and truncated tensegrity skeletons (Part2: Manual pretensioning of tower

tensegrity), AIJ J. Technol. Des., Vol.24 No.58, 2018.10, pp.1005-1010.

T. Zhang, K. Kawaguchi and M. Wu: A folding analysis method of the origami structure for the construction control, Proceeding of the 7th World Conference on Structural Control and Monitoring, Qingdao, China, July 2018, 7pp. USB.

K. Kawaguchi, X. Yang and T. Sone: Deployable 10m arch and 2m sphere, Proceedings of the International Association for Shell and Spatial Structures (IASS) Symposium 2018, Boston, USA, July 2018, 4pp., USB.

P. Wang and K. Kawaguchi: Application of deep learning with convolutional neural networks to detect damages of ceilings in large rooms, Proceedings of the International Association for Shell and Spatial Structures (IASS) Symposium 2018, Boston, USA, July 2018, 4pp., USB.

K. Kawaguchi and K. Mizutani: Tensegrity skeletons and prestressing process, Proceedings of the International Association for Shell and Spatial Structures (IASS) Symposium 2018, Boston, USA, July 2018, 5pp., USB.

S. Arimoto and K. Kawaguchi: Preliminary Study of Application of Force Density Method to the Morphology of Root System and Supporting Structure, Summaries of Technical Papers of Annual Meeting, AIJ, Tohoku, Japan, July 2018, No. 20469, pp. 937-938, DVD-ROM.

T. Iizuka, K. Kawaguchi and Y. Nakaso: Preliminary Study of Mechanism of Safety Net as Prevention for the Failure of Non-structural Components Part5: Comparison of Dynamic Response Analysis and Foregoing Experiments, Summaries of Technical Papers of Annual Meeting, AIJ, Tohoku, Japan, July 2018, No. 20502, pp. 1003-1004, DVD-ROM.

K. Kida, K. Kawaguchi and Y. Nakaso: Fundamental study of unit of safety net as prevention for the failure of ceiling, Summaries of Technical Papers of Annual Meeting, AIJ, Tohoku, Japan, July 2018, No. 20503, pp. 1005-1006, DVD-ROM.

Y. Nakaso, K. Yuge and K. Kawaguchi: Fundamental research on the damage evaluation against falling objects using a human head FE model Part1: Simulation of a dynamic loading test to vertex of a cadaver, Summaries of Technical Papers of Annual Meeting, AIJ, Tohoku, Japan, July 2018, No. 20508, pp. 1015-1016, DVD-ROM.

T. Enoki and K. Kawaguchi: Preliminary Survey of the Underground Shelters in the World and

Histories, Summaries of Technical Papers of Annual Meeting, AIJ, Tohoku, Japan, July 2018, No. 20524, pp. 1047-1048, DVD-ROM.

J. Kanai and K. Kawaguchi: Preliminary Study on Inundation Analysis of Underground Space by Pound Model, Summaries of Technical Papers of Annual Meeting, AIJ, Tohoku, Japan, July 2018, No. 20525, pp. 1049-1050, DVD-ROM.

T. Inokuchi and K. Kawaguchi: Preliminary study of personal tsunami shelter with inflatable membrane structure, Summaries of Technical Papers of Annual Meeting, AIJ, Tohoku, Japan, July 2018, No. 20526, pp. 1051-1052, DVD-ROM.

Y. Takahashi, K. Kawaguchi and R. Takahama: Fundamental function of Gauge Pendulums, Summaries of Technical Papers of Annual Meeting, AIJ, Tohoku, Japan, July 2018, No. 21479, pp. 957-958, DVD-ROM.

T. Kimura, Y. Tsumura, K. Kawasaki, K. Oka, K. Kawaguchi, Y. Oba, Y. Nakaso, and K. Uemura: Collapse of suspended ceiling of the auditorium in Kudan Kaikan (Part2: Historical background and identification of construction of the ceiling), AIJ J. Technol. Des., Vol.24 No.57, 2018.6, pp.855-860.

K. Kawaguchi, K. Mizutani, J. Fujiwara, K. Imai and K. Honma: Report of design and construction of tower and truncated tensegrity skeletons (Part1: Manual pretensioning and construction scheme), AIJ J. Technol. Des., Vol.24 No.57, 2018.6, pp.591-596.

T. Hiraki, K. Kawaguchi, K. Nishizaki and S. Oya: Preliminary Study on Shock Absorbers Using Wire Clips for Safety Nets Prepared for Accidental Collapse of Ceiling Panels, AIJ J. Technol. Des., Vol.24 No.57, 2018.6, pp.597-600.