

**LIST OF PAPERS BY MEMBERS OF
EARTHQUAKE RESISTANT STRUCTURE RESEARCH CENTER**

SEISAN-KENKYU : Monthly Journal of the Institute of Industrial Science,
The University of Tokyo

JSCE : The Japan Society of Civil Engineers

JSME : The Japan Society of Mechanical Engineers

AIJ : The Architectural Institute of Japan

JCI : Japan Concrete Institute

JSSC : The Japan Society of Steel Construction

JGS : The Japanese Geotechnical Society

JAEE : The Japan Association for Earthquake Engineering

* : Written in Japanese

Towhata, I., Maruyama, S., Kasuda, K., Koseki, J., Wakamatsu, K., Kiku, H., Kiyota, T., Yasuda, S., Taguchi, Y., Aoyama, S. and Hayashida, T. (2014): Liquefaction in the Kanto region during the 2011 off Pacific coast of Tohoku earthquake, *Soils and Foundations*, Vol. 54, No. 4, pp. 859-873.

Kiyota, T., Tani, K., Matsushita, K., Hashimoto, T., Yamamoto, A., Takeuchi H., Noda, T., Kiku, H. and Obayashi, J. (2014): Mitigation of liquefaction-induced damage to residential houses by shallow ground improvement, *Soil Liquefaction during Recent Large-Scale Earthquakes*, pp. 157-166.

Han, X., Kiyota, T. and Tatsuoka, F. (2014): Comparison of pullout behaviors between geogrid and a newly-developed geocell, *Proc. of International Conference on Geosynthetics*, Paper ID: 330, CD-ROM.

Chiaro, G., Kiyota, T. & Koseki, J. (2014): Large-strain behavior of liquefiable sandy sloped ground evaluated by undrained cyclic torsional shear tests, *Proc of the International Symposium on Geohazards, Science, Engineering and Management*, Nov. 20-21, Kathmandu, Nepal, pp. 51-61.

Pokhrel, R.M., Kiyota, T., Kuwano, J. (2014): Effects of microtopography for liquefaction potential zoning: a study based on GIS and geotechnical data, *Proc of the International*

Symposium on Geohazards, Science, Engineering and Management, Nov. 20-21, Kathmandu, Nepal, pp 139-145.

Mera, T., Han, X., Kiyota, T. and Katagiri, T. (2014): Comparison of geogrid and square-shaped geocell as tensile reinforcement in backfills of geosynthetic-reinforced soil retaining walls, Proc of the International Symposium on Geohazards, Science, Engineering and Management, Nov. 20-21, Kathmandu, Nepal, pp 287-295.

Koseki, J., Mikami, T. and Sato, T.: Deformation characteristics of granular materials in cyclic one-dimensional loading tests, *Transportation Infrastructure Geotechnology*, 1(1), 54-67, 2014.

Koseki, J. and Shibuya, S.: Mitigation of disasters by earthquakes, tsunamis and rains by means of geosynthetic-reinforced soil retaining walls and embankments, Keynote Lecture of International Symposium on Design and Practice of Geosynthetic-Reinforced Soil Structures, Bologna, Italy, *Transportation Infrastructure Geotechnology*, 1(3-4), 231-261, 2014.

Lenart, S., Koseki, J., Miyashita, Y. and Sato, T.: Large-scale triaxial tests of dense gravel material at low confining pressure, *Soils and Foundations*, 54(1), 45-55, 2014.

De Silva, L.I.N, Koseki, J., Wahyudi, S. and Sato, T.: Stress-dilatancy relationships of sand in the simulation of volumetric behavior during cyclic torsional shear loadings, *Soils and Foundations*, 54(4), 845-858, 2014.

Wang, H., Koseki, J. and Nishimura, T.: SWCC measurement of two types of iron ores, Proc. of the 6th International Conference on unsaturated soils, Unsat2014, Sydney, 973-979, 2014.

Wahyudi, S. and Koseki, J.: Development of stacked-ring shear apparatus in the investigation on characteristics of re-liquefied sand, Proc. of 16th International Summer Symposium, International Activities Committee, JSCE, 2014.

Fauzi, U.J. and Koseki, J.: Effect of silt layer in segregated specimen on liquefaction behavior of Katori sand, Proc. of 16th International Summer Symposium, International Activities Committee, JSCE, 2014.

Fauzi, U.J. and Koseki, J.: Evaluation of re-liquefaction behavior of segregated and uniform specimens in hollow cylindrical torsional shear tests, Proc. of GEOMATE2014, Fourth

International Conference on Geotechnique, Construction Materials and Environment, Brisbane, Australia, 2014.

Fauzi, U.J., Koseki, J. and Sato, T.: Liquefaction behavior of uniform and segregated Katori sand specimens, Proc. of 14th Japan Earthquake Engineering Symposium, Chiba, Japan, 2014.

Deng, J.L., Qiang, X., Longzhu, C., Wenya, Y. and Koseki, J.: A procedure for comprehensive analysis of slope failure during and post mainshock, Engineering Geology for Society and Territory, Lollino et al. (eds.), Springer, 2, 743-746, 2015.

Chiaro, G., Koseki, J. and Kiyota, T.: An investigation on the liquefaction behavior of sandy sloped ground during the 1964 Niigata Earthquake, Proc. of 6th Japan-Taiwan Workshop on Geotechnical Hazards from Large Earthquakes and Heavy Rainfall, Fukuoka, Japan, 2014.

Kuwano, R., Kuwano, J., Saito, Y., Subsurface cavity beneath a buried sewer pipe supported by piles, Proc. 13th International symposium on new technologies for urban safety of mega cities in Asia, USMCA, Yangon, November 2014, CD-ROM.

Sera, R., Koike, Y., Hironaka, Y., Nakamura, H. and Kuwano, R., Actual condition and trend of cavity occurrence under Japanese roads in recent years, Proc. 13th International symposium on new technologies for urban safety of mega cities in Asia, USMCA, Yangon, November 2014, CD-ROM.

Kuwano, R., Kuwano, J. and Saito, Y., Road cave-ins along a buried sewer pipe supported by piles, Proceeding of International Symposium on Geohazards: Science, Engineering and Management, November 2014, Kathmandu, Nepal, 549-556, 2014.

Kuwano, J., Kuwano, R. and Taira, S. and Houfuku, T., Sand eruption from the liquefied ground through the gap of pavement, Proceeding of International Symposium on Geohazards: Science, Engineering and Management, November 2014, Kathmandu, Nepal, 44-50.

Sato, M. and Kuwano, R., Effects of internal erosion on soil stiffness and volumetric changes, Proc. of International Symposium of Scour and Erosion, Sydney, 2014.

Yang, Y. and Kuwano, R., Evaluation of mechanical properties of sand loosened due to piping, Proc. of International Symposium of Scour and Erosion, Sydney, 2014.

Suhelmidawati ETRI, Muneyoshi NUMADA, Kimiro MEGURO: In-Plane Diagonal Compression Test of Masonry Wall Retrofitted by Natural Fiber Reinforced Cement Mortar, *Seisan Kenkyu (Bimonthly Journal of Institute of Industrial Science)*, Vol. 66, No. 6 pp. 555-560, 2014.

Suhelmidawati ETRI, Muneyoshi NUMADA and Kimiro MEGURO: In-plane diagonal compression test of masonry walls retrofitted by natural fiber reinforced cement mortar, *Seisan Kenkyu (Bimonthly Journal of Institute of Industrial Science)*, Vol. 66, No.6, p. 101-106, 2014.

Suhelmidawati ETRI, Muneyoshi NUMADA, Kimiro MEGURO: In-plane behavior of un-reinforced masonry walls retrofitted with natural fiber reinforced cement mortar, *Proceedings of the 3rd International Conference on Urban Disaster Reduction (ICUDR) Sustainable Disaster Recovery; Addressing Risks and Uncertainty (Track 1: Breakout #4)*, September 28 - October 1, 2014, Boulder, Colorado, USA.

Shanthanu RAJASEKHARAN, Muneyoshi NUMADA and Kimiro MEGURO: Simplified collapse analysis of structures using the Extended Distinct Element Method and Finite Element mapped spring network, *Proceedings of the 3rd International Conference on Urban Disaster Reduction, Earthquake Engineering Research Institute, Boulder, CO, USA, Track 3: Breakout #3*, September 29th, 2014.

Muneyoshi NUMADA: The Role of Mass Media during disaster from experiences of the 2011 Great East Japan Earthquake, *Proceedings of the 3rd International Conference on Urban Disaster Reduction, Earthquake Engineering Research Institute, Boulder, CO, USA, Track 2: Breakout #3*, September 30th, 2014.

Muneyoshi NUMADA, Kimiro MEGURO: Analysis of the initial response of Yabuki Town during the 2011 Great East Japan Earthquake and proposal of disaster response process, *Proceedings of the 14th Japan Earthquake Engineering Symposium, (GO20-Thu-9)*, pp.1293-1300, Makuhari Messe, Chiba, Japan, December 4 – 6, 2014.

Shanthanu RAJASEKHARAN, Muneyoshi NUMADA, Kimiro MEGURO: Application of Finite Element mapped spring network system in the Extended Distinct Element Method, *Proceedings of the 14th Japan Earthquake Engineering Symposium, (OS13-Thu-AM-8)*, pp.128-136, Makuhari Messe, Chiba, Japan, December 4 – 6, 2014.

Suhelmidawati ETRI, Muneyoshi NUMADA, Kimiro MEGURO: In-plane and out-of-plane static failure test of masonry wallet retrofitted by Abaca fiber reinforced cement composites, Proceedings of the 14th Japan Earthquake Engineering Symposium (OS13-Thu-AM-2), p. 73-81, Makuhari Messe, Chiba, Japan, December 4 – 6, 2014.

Kenjiro YAMAMOTO, Muneyoshi NUMADA and Kimiro MEGURO: Experimental study on seismic retrofitting of masonry with special fiber paint, Proceedings of the 13th International symposium on new technologies for urban safety of mega cities in Asia, Yangon Technological University, 4, Nov., 2014.

Muneyoshi Numada and Kimiro Meguro: Role of news media from experiences of the 2011 Great East Japan earthquake, Proceedings of the 13th International Symposium on New Technologies for Urban Safety of Mega Cities in Asia, Yangon Technological University, 4, Nov., 2014.

Adnan Mahmood DAR, Saleem M.UMAIR, Muneyoshi NUMADA and Kimiro MEGURO: Experiment Study on Reduction of PP-Band Mesh Connectivity for Retrofitting of Masonry Structure, Bulletin of Earthquake Resistant Structure, No.47, pp. 67-80, Mar. 2014.

K. Matsukawa and M. Maeda: Practical Collapse Assessment for Reinforced Concrete Structures Based on Seismic Response Spectrum, Bulletin of Earthquake Resistant Structure Research Center, No.47, Institute of Industrial Science, The University of Tokyo, pp.47-56, March, 2014.

KW. Jin, H. Choi, K. Matsukawa, and Y. Nakano: Simplified Backbone Curve Estimation Method of URM Wall Infilled RC Frame, Bulletin of Earthquake Resistant Structure Research Center, No.47, Institute of Industrial Science, The University of Tokyo, pp.57-66, March, 2014.

H. Choi, Y. Sanada, Y. Watanabe, and Y. Nakano: Feasibility Study on Seismic Response Estimation of Damaged R/C Buildings Based on Observation Data and Numerical Analysis, 10th U.S. National Conference on Earthquake Engineering, Anchorage, Alaska, USA, DVD-ROM, July 21-25, 2014.

K. Matsukawa and M. Maeda: Practical Collapse Assessment for Reinforced Concrete Structures Based on Seismic Response Spectrum, 10th U.S. National Conference on Earthquake

Engineering, Anchorage, Alaska, USA, DVD-ROM, July 21-25, 2014.

H. Choi, KW. Jin, K. Matsukawa, and Y. Nakano: Evaluation of Equivalent Diagonal Strut Mechanism and Shear Strength of URM Wall Infilled R/C Frame, 2nd European Conference on Earthquake Engineering and Seismology, Istanbul, Turkey, DVD-ROM, Aug. 25-29, 2014.

H. Choi and Y. Nakano: Response Characteristics of Typical Tsunami Evacuation Buildings for Tsunami Load and Impulsive Force of Tsunami Drifting Objects, 6th International Conference of Asian Concrete Federation, Seoul, Korea, DVD-ROM, Sept. 21-24, 2014.