

PAPERS ABOUT GRS TECHNOLOGY BY TATSUOKA ET AL.

1. Properties of geosynthetic reinforcement and backfill for GRS structures:

- 1-1 Greenwood, J.H., Jones, C.J.F.P. and Tatsuoka, F. (2001): Residual strength and its application to design of reinforced soil in seismic areas, *Proc. of IS Kyushu* (Ochia et al. eds.), Balkema, Vol.1, pp.37-42.
- 1-2 Hirakawa, D., Kongkitkul, W., Tatsuoka, F. & Uchimura, T. 2003. Time-dependent stress-strain behavior due to viscous property of geosynthetic reinforcement, *Geosynthetics International*, Vo.10, No.6, pp.176-199.
- 1-3 Kongkitkul, W., Hirakawa, D., Tatsuoka, F. & Uchimura, T. 2004. Viscous deformation of geogrid reinforcement under cyclic loading conditions and its model simulation, *Geosynthetics International*, Vol.11, No.2, pp.73-99.
- 1-4 Kongkitkul, W., Tatsuoka, F. and Hirakawa, D. 2007. Creep rupture curve for simultaneous creep deformation and degradation of geosynthetic reinforcement, *Geosynthetics International*, Vol.14, No.4, pp.1-12. pp.189-200.
- 1-5 Kongkitkul, W., Tatsuoka, F. and Hirakawa, D. 2007. Rate-dependent load-strain behaviour of geogrid arranged in sand under plane strain compression, *Soils and Foundations*, Vol.47, No.3, pp.473-491.
- 1-6 Kongkitkul, W. and Tatsuoka, F. 2007. A theoretical framework to analyse the behaviour of polymer geosynthetic reinforcement in temperature-accelerated creep tests, *Geosynthetics International*, Vol.14, No.1, pp.23-38.
- 1-7 Kongkitkul, W., Hirakawa, D. and Tatsuoka, F. 2007. Viscous behaviour of geogrids; experiment and simulation, *Soils and Foundations*, Vol.47, No.2, pp.265-283.
- 1-8 Kongkitkul, W., Tabsombut, W., Jaturapitakkul, C. and Tatsuoka, F. 2012. Effects of temperature on the rupture strength and elastic stiffness of geogrids, *Geosynthetics International*, Vol.19, No.2 pp.106-123.
- 1-9 Ling, H. I., Wu, J. T. H. and Tatsuoka, F. 1992. Short-term strength and deformation characteristics of geotextiles under typical operational conditions, *Geotextiles and Geomembranes*, Vol.11, No.2, pp.185-219.
- 1-10 Ling, H. I., Tatsuoka, F., Wu, J.T.H. and Nishimura, J. 1993. Hydraulic conductivity of geotextiles under typical operational conditions, *Geotextiles and Geomembranes*, Vol.12, No.6, pp.509-542.
- 1-11 Ling, H. I., Leshchinsky, D. and Tatsuoka, F. 1997. Stress-confinement effect of nonwoven geotextile on design of reinforced soil retaining wall, *Soils and Foundations*, Vol.37, No.4, pp.121-126.
- 1-12 Tatsuoka, F., Hirakawa, D., Shinoda, M., Kongkitkul, W. & Uchimura, T. 2004. An old but new issue; viscous properties of polymer geosynthetic reinforcement and geosynthetic-reinforced soil structures, Keynote lecture, *Proc. GeoAsia04, Seoul*, pp.29-77.
- 1-13 Tatsuoka, F., Kongkitkul, W. and Hirakawa, D. 2006. Viscous property and time-dependent degradation of geosynthetic reinforcement, *Proc. 8th International Conference on Geosynthetics*, Yokohama Vol.4, pp.1587-1590.

- 1-14 Tatsuoka, F., Furusawa, S., Kataoka, T., Watanabe, K. & Lohani, T. N. 2017. Strength and stiffness of compacted cement-mixed gravelly soil controlled by the degree of saturation, *Proc. 19th ICSMGE*, Seoul, pp. 1253-1256.
- 1-15 Watanabe, K., Tateyama, M., Uchimura, T., Yonezawa, T. and Aoki, H. 2006. Pullout tests of geogrid embedded in cement-mixed gravel, *Proc. of 8th International Conference on Geosynthetics*, Yokohama, Vol.4, pp.1467-1470.

2. Laboratory model tests of GRS RWs and fills:

- 2-1 Hirakawa, D., Nojiri, M., Aizawa, H., Tatsuoka, F., Sumiyoshi, T. and Uchimura, T. 2006. Behaviour of geosynthetic-reinforced soil retaining wall subjected to forced cyclic horizontal displacement at wall face, *Proc. 8th International Conference on Geosynthetics*, Yokohama, 1075-1078.
- 2-2 Hirakawa, D., Nojiri, M., Aizawa, H., Tatsuoka, F., Sumiyoshi, T. and Uchimura, T. 2007. Residual earth pressure on a retaining wall with sand backfill subjected to forced cyclic lateral displacements, Soil Stress-Strain Behavior: Measurement, Modeling and Analysis, *Proc. of Geotechnical Symposium in Roma, March 16 & 17, 2006* (Ling et al., eds.), pp.865-874.
- 2-3 Huang, C-C. and Tatsuoka, F. 1990. Bearing capacity of reinforced horizontal sandy ground, *Geotextiles and Geomembranes*, Vol.9, No.1, pp.51-82.
- 2-4 Murata,O, Tateyama,M. and Tatsuoka,F. (1994), "Shaking table tests on a large geosynthetic-reinforced soil retaining wall model", *Proc. of Int. Symposium Recent Case Histories of Permanent Geosynthetic-Reinforced Soil Retaining Walls* (Leshchinsky et al. eds.), Balkema, pp.259-264.
- 2-5 Tatsuoka, F., Tateyama, M. & Murata, O. 1989. Earth retaining wall with a short geotextile and a rigid facing, *Proc. 12th Int. Conf. on SMFE*, Rio de Janeiro, Vol.12, No.2, pp.1311-1314.
- 2-6 Watanabe, K., Munaf, Y., Koseki, J., Tateyama, M. and Kojima, K. 2003. Behaviors of several types of model retaining walls subjected to irregular excitation, *Soils and Foundations*, Vol.43, No.5, pp.13-27.
- 2-7 Watanabe, K. Matsumaru, T. and Tateyama, M. 2011. Soft ground improvement method for railway embankment using cement-mixed gravel and geosynthetic, *Proc. of 1st International Symposium on Railway Geotechnical Engineering (Georail 2011)*, Paris, pp.389-396.

3. Full-scale model tests of GRS RWs:

- 3-1 Murata, O., Tateyama, M, and Tatsuoka, F., Nakamura, K. and Tamura, Y. (1991): A reinforcing method for earth retaining walls using short reinforcing members and a continuous rigid facing, *Proc. of the ASCE Geotechnical Engineering Congress 1991, Boulder, Geotechnical Special Publication Vol.27*, pp.935-946.
- 3-2 Tamura, Y., Nakamura, K., Tateyama, M., Murata, O., Tatsuoka, F. and Nakaya, T. (1994): Full-scale lateral loading tests of column foundations in geosynthetic-reinforced soil retaining walls, *Proc. of Int. Symposium Recent Case Histories of Permanent Geosynthetic-Reinforced Soil Retaining Walls* (Tatsuoka and Leshchinsky eds.), Balkema, pp.277-286.
- 3-3 Tateyama, M., Murata, O., Tamura, Y., Tatsuoka, F. and Nakaya, T. (1994): Lateral loading tests on columns on the facing of geosynthetic-reinforced soil retaining wall, *Proc. of Int. Symposium Recent Case Histories of Permanent Geosynthetic-Reinforced Soil Retaining Walls* (Leshchinsky et al. eds.), Balkema, pp.287-294.
- 3-4 Tatsuoka, F. & Yamauchi, H. 1986. A reinforcing method for steep clay slopes using a non-woven geotextile, *Geotextiles and Geomembranes (Journal of IGS)*, Vol.4, No.3/4, pp.241-268.

- 3-5 Tatsuoka, F., Nakamura, K., Iwasaki, K., Tamura, Y. and Yamauchi, H. 1987. Behavior of steep clay embankments reinforced with a non-woven geotextile having various face structures, *Proc. of Post Vienna on Geotextiles, Singapore*, pp.387-403.
- 3-6 Tatsuoka, F., Murata, O., Tateyama, M., Nakamura, K., Tamura, Y., Ling, H-I., Iwasaki, K. & Yamauchi, H. 1990. Reinforcing steep clay slopes with a non-woven geotextile, *Proc. Int. Reinforced Soil Conference*, Glasgow, September 1990, pp.141-146.
- 3-7 Tatsuoka, F., Tateyama, M., Tamura, Y. & Yamauchi, H. 2000. Lessons from the failure of full-scale models and recent geosynthetic-reinforced soil retaining walls, *Proc. the second Asian Geosynthetics Conference, GeoAsia 2000*, Kuala Lumpur, Vol.1, pp.23-53.
- 3-8 Yamauchi, H., Tatsuoka, F., Nakamura, K., Tamura, Y. and Iwasaki, K. 1987. Stability of steep clay embankments reinforced with a non-woven geotextile, *Proc. of Post Vienna on Geotextiles*, Singapore, pp.370-386.

4. Over-view, principle and design of GRS structures:

- 4.1 Horii, K., Kishida, H. Tateyama, M., and Tatsuoka. F. 1994. Computerized design method for geosynthetic-reinforced soil retaining walls for railway embankments, *Proc. of Int. Symposium Recent Case Histories of Permanent Geosynthetic-Reinforced Soil Retaining Walls (Tatsuoka and Leshchinsky eds.)*, Balkema, pp.205-218.
- 4-2 Leshchinsky, D. and Tatsuoka, F. 2013. Geosynthetics reinforced walls in the public sector, Performance, design, and redundancy, *Geosynthetics Magazine*, June-July, pp.12-21.
- 4-3 Tatsuoka, F. 1992. Roles of facing rigidity in soil reinforcing, Keynote Lecture, *Proc. Earth Reinforcement Practice (IS-Kyushu '92)*, Vol.1, pp.831-870.
- 4-4 Tatsuoka, F. 2008. Geosynthetic-reinforced soil structures. 2008. A cost-effective solution combining two engineering disciplines, *19th Carrillo Lecture, Mexican Society for Soil Mechanics*, Aguascalientes, 29 November 2008.
- 4-5 Tatsuoka, F. 2008. Geosynthetics Engineering, combining two engineering disciplines, Special Lecture, *Proc. GeoSyntheticsAsia*, Shanghai, Vol. 2, pp.1-35.
- 4.6 Tatsuoka, F. 2018. Geosynthetic-reinforced soil technology in railway applications – from walls to bridges, Prestigious Lecture, *Proc. 11ICG*, Seoul.
- 4-7 Tatsuoka, F., Tateyama, M., Murata, O. and Tamura, Y. 1994. Geosynthetic-reinforced soil retaining wall structures with short reinforcement and a rigid facing (closure), *Proc. of Int. Symposium Recent Case Histories of Permanent Geosynthetic-Reinforced Soil Retaining Walls (Tatsuoka and Leshchinsky eds.)*, Balkema, pp.323-342.
- 4-8 Tatsuoka, F., Tateyama, M, Uchimura, T. & Koseki, J. 1997. Geosynthetic-reinforced soil retaining walls as important permanent structures, 1996-1997 Mercer Lecture, *Geosynthetic International*, Vol.4, No.2, pp.81-136.
- 4.9 Tatsuoka, F., Koseki, J. and Tateyama, M. 2010. Introduction to Japanese codes for reinforced soil design, Panel Discussion on Reinforced Soil Design Standards, *Proc. 9th International Conference on Geosynthetics, Brazil*, pp.245-255.
- 4-10 Watanabe, K. and Tateyama, M. 2016. General overview of experimental studies on seismic stability of geosynthetic reinforced soil structures and recent research activity, *Keynote Lecture of 6th Asian Regional*

5. Behaviour during earthquakes and floods, tsunami of GRS structures:

- 5.1 Huang, C.C., Chou, L. H. and Tatsuoka, F. 2003. Seismic displacements of geosynthetic-reinforced soil modular block walls, *Geosynthetics International*, Vol.10, No.1., pp.2-23.
- 5.2 Kato, N., Huang, C.-C., Tateyama, M., Tatsuoka, F. and Koseki, J. 2002. Seismic stability of several types of retaining walls on sand slope, *Proc. of 7th International Conference on Geosynthetics*, Nice, Vol.1, pp.237-240.
- 5.3 Koseki, J., Munaf, Y., Tatsuoka, F., Tateyama, M., Kojima, K. and Sato, T. 1998. Shaking and tilt table tests of geosynthetic-reinforced soil and conventional type retaining walls, *Geosynthetics International*, Vol. 5, Nos. 1-2. pp.73-95.
- 5.4 Matsushima, M., Yamazaki, S., Mohri, Y., Hori, T., Ariyoshi, M. and Tatsuoka, F. 2007. Large-scale overflow failure tests on embankments using soil bags anchored with geosynthetic reinforcement, *Proc. of 5th Int. Sym. on Earth Reinforcement (IS Kyushu 2007)*, pp.881-888.
- 5.5 Mohri, Y., Matsushima, K., Yamazaki, S., Lohani, T. N., Tatsuoka, F. and Tanaka, T. (2009): New direction of earth reinforcement - Disaster prevention for earth fill dam -, *Gesynthetics International*, IS Kyushu 2007 Special Issue, Vol.16, No.4, pp.246-273.
- 5.6 Shindo, Y. and Tatsuoka, F. 2017. Restoration of Sanriku Railway by utilizing reinforced soil structures to enhance earthquake-and-tsunami-resistance, *Journal of Japanese Society for Civil Engineers*, Vol.5, pp.10-26.
- 5.7 Tatsuoka, F., Tateyama, M. and Koseki, J. 1996. Performance of soil retaining walls for railway embankments, *Soils and Foundations*, Special Issue for the 1995 Hyogoken-Nambu Earthquake, pp.311-324.
- 5.8 Tatsuoka, F., Koseki, J. & Tateyama, M. 1997. Performance of earth reinforcement structures during the Great Hanshin Earthquake, *Special Lecture, Proc. Int. Sym. on Earth Reinforcement, IS Kyushu '96* (Ochiai et al., eds.), *Balkema*, Vol.2, pp.973-1008.
- 5.9 Tatsuoka, F., Koseki, J., Tateyama, M., Munaf, Y. & Horii, N. 1998. Seismic stability against high seismic loads of geosynthetic-reinforced soil retaining structures, Keynote Lecture, *Proc. 6th Int. Conf. on Geosynthetics, Atlanta*, Vol.1, 103-142.
- 5.10 Tatsuoka, F., Tateyama, M., Mohri, Y. and Matsushima, K. 2007. Remedial treatment of soil structures using geosynthetic-reinforcing technology, *Geotextiles and Geomembranes*, Vol.25, Nos. 4 & 5, pp.204-220.
- 5.11 Tatsuoka, F., Tateyama, M. and Koseki, J. 2012. Recent applications of GRS technology to mitigate natural disasters in Japan. *Proc. International Symposium on Sustainable Geosynthetics and Green Technology for Climate Change (SGCC2012)*, June 2012, Bangkok, Thailand
- 5.12 Tatsuoka, F., Koseki, J. & Kuwano, J. 2014. Natural disasters mitigation by using construction methods with geosynthetics (earthquakes), Keynote Lecture, *Proc. 10th International Conference on Geosynthetics, Berlin*, September.
- 5.13 Yamaguchi, S., Yanagisawa, M., Kawabe, S., Tatsuoka, F. and Nihei, Y. 2013. Evaluation of the stability of various types of coastal dyke against over-flowing tsunami current, *Proc. International Symposium on Design and Practice of Geosynthetic-Reinforced Soil Structures, Oct. 2013, Bologna* (Ling et al., eds.), pp.572-581.

5.14 Watanabe, K., Nakajima, S., Fujiwara, T. Yoshii, K. and G. Venkatappa Rao. 2021. Construction and field measurement of high-speed railway test embankment built on Indian expansive soil "Black Cotton Soil", *Soils and Foundations*, Vol. 61, No. 1, pp.218-238.

6. GRS bridge abutment and GRS Integral bridge:

- 6-1 Hirakawa, D., Nojiri, M., Aizawa, H., Nishikiori, H., Tatsuoka, F., Tateyama, M. and Watanabe, K. 2007. Effects of the tensile resistance of reinforcement in the backfill on the seismic stability of GRS integral bridge, *Proc. of 5th Int. Sym. on Earth Reinforcement (IS Kyushu 2007)*, 811-817.
- 6-2 Kawabe, S., Tatsuoka, F., Kuroda, T., Yamaguchi, S., Matsumaru, T., Watanabe, K. and Koda, M. 2013. Seismic stability of geosynthetic-reinforced soil integral bridge evaluated by shaking table test, *Proc. International Symposium on Design and Practice of Geosynthetic-Reinforced Soil Structures, Oct. 2013*, Bologna (Ling et al., eds.), pp.126-133.
- 6-3 Kawabe, S., Kikuchi, Y., Watanabe, K. & Tatsuoka, F. 2015. Model tests on the stability of GRS integral bridge against tsunami load, *Proc. 15th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering*, Fukuoka.
- 6-4 Koda, M., Nonaka, T., Suga, M., Kuriyama, R., Tateyama, M. & Tatsuoka, F. 2013. Lateral cyclic loading tests of a full-scale GRS integral bridge model, *Proc. International Symposium on Design and Practice of Geosynthetic-Reinforced Soil Structures*, Oct. 2013, Bologna (Ling et al., eds.), pp.157-174.
- 6-5 Koda, M., Nonaka, T., Suga, M., Kuriyama, R., Tateyama, M. & Tatsuoka, F. 2018. Lateral cyclic loading tests of a full-scale GRS integral bridge model, *Proc. IIICG*, Seoul.
- 6-6 Munoz, H., Tatsuoka, F., Hirakawa, D., Nishikiori, H., Soma, R., Tateyama, M. & Watanabe, K. 2012. Dynamic stability of geosynthetic-reinforced soil integral bridge, *Gesynthetics International*, Vol.19, No.1, pp.11-38.
- 6-7 Nakarai, K., Uchimura, T., Tatsuoka, F., Shinoda, M., Watanabe, K. and Tateyama, M. (2002): Seismic stability of geosynthetic-reinforced soil bridge abutment (model experiments), Proc. of 7th International Conference on Geosynthetics, Nice, Vol.1, pp.249-252.
- 6-8 Shinoda, M., Uchimura, T. & Tatsuoka, F. 2003a. Increasing the stiffness of mechanically reinforced backfill by preloading and prestressing, *Soils and Foundations*, Vo.43, No.1, pp.75-92.
- 6-9 Shinoda, M., Uchimura, T & Tatsuoka, F. 2003. Improving the dynamic performance of preloaded and prestressed mechanically reinforced backfill by using a ratchet connection, *Soils and Foundations*, Vol.43, No.2, pp.33-54.
- 6-10 Tatsuoka, F., Uchimura, T. and Tateyama, M. 1997. Preloaded and prestressed reinforced soil, *Soils and Foundations*, Vol.37, No.3, pp.79-94.
- 6-11 Tatsuoka, F., Tateyama, M., Aoki, H. & Watanabe, K. 2005. Bridge abutment made of cement-mixed gravel backfill, *Ground Improvement, Case Histories, Elsevier Geo-Engineering Book Series*, Vol. 3 (Indraratna & Chu eds.), pp.829-873.
- 6-12 Tatsuoka, F., Hirakawa, D., Nojiri, M., Aizawa, H., Nishikiori, H., Soma, R., Tateyama, M. & Watanabe, K. 2009. A new type of integral bridge comprising geosynthetic-reinforced soil walls, *Gesynthetics International*, Vol.16, No.4, pp.301-326.
- 6-13 Tatsuoka, F., Hirakawa, D., Nojiri, M., Aizawa, H., Nishikiori, H., Soma, R., Tateyama, M. & Watanabe, K. 2010. Closure to Discussion on "A new type of integral bridge comprising geosynthetic-reinforced soil

walls”, *Gesynthetics International*, Vol.17, No.4, pp.1-12.

- 6-14 Tatsuoka, F., Munoz, H., Kuroda, T., Nishikiori, H., Soma, R., Kiyota, T., Tateyama, M. & Watanabe, K. 2012. Stability of existing bridges improved by structural integration and nailing, *Soils and Foundations*, Vol.52, No.3, pp.430-448.
- 6-15 Tatsuoka, F., Tateyama, M., Koda, M. Kojima, K., Yonezawa, T., Shindo, Y. and Tamai, S. 2015. Recent research and practice of GRS integral bridges for railways in Japan, *Proceedings of 15th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering*, Fukuoka.
- 6-16 Tatsuoka, F., Tateyama, M., Koda, M., Kojima, K., Yonezawa, T., Shindo, Y. and Tamai, S. 2016. Research and construction of geosynthetic-reinforced soil integral bridges, *Transportation Geotechnics*, Vol.8, pp.4-25
- 6-17 Tatsuoka, F., Soma, R., Nishikiori, H., Watanabe, K. & Hirakawa, D. 2018. High seismic performance of GRS integral bridge with approach fills of geogrid-reinforced cement-mixed gravelly soil, *Proc. IIICG*, Seoul.
- 6-18 Uchimura, T., Tateyama, M., Tanaka, I., & Tatsuoka, F. 2003. Performance of a preloaded-prestressed geogrid-reinforced soil pier for a railway bridge, *Soils and Foundations*, Vol.43, No.6, pp.33-50.
- 6-19 Uchimura, T., Tamura, Y., Tateyama, M., Tanaka, I. & Tatsuoka, F. 2005. Vertical and horizontal loading tests on full-scale preloaded and prestressed geogrid-reinforced soil structures, *Soils and Foundations*, Vo.45, No. 6, pp.75-88.
- 6-20 Watanabe, K., Tateyama, M., Yonezawa, T., Aoki, H., Tatsuoka, F. and Koseki, J. 2002. Shaking table tests on a new type bridge abutment with geogrid-reinforced cement treated backfill, Proc. of 7th International Conference on Geosynthetics, Nice, Vol.1, pp.119-122.
- 6-21 Yazaki, S., Tatsuoka, F., Tateyama, M., Koda, M., Watanabe, K. & Duttine, A. 2013. Seismic design of GRS integral bridge, *Proc. International Symposium on Design and Practice of Geosynthetic-Reinforced Soil Structures*, Oct. 2013, Bologna (Ling et al., eds.), pp.142-156.
- ## 7. Construction case histories of GRS structures:
- 7.1 Kanazawa, Y., Ikeda, K., Murata, O., Tateyama, M. and Tatsuoka, F. 1994. Geosynthetic-reinforced retaining walls for reconstructing railway embankment at Amagasaki, *Proc. of Int. Symposium Recent Case Histories of Permanent Geosynthetic-Reinforced Soil Retaining Walls* (Leshchinsky et al. eds.), Balkema, pp.233-242.
- 7.2 Kongkitkul, W., Tatsuoka, F., Hirakawa, D., Sugimoto, T., Kawahata, S. and Ito, M. 2010. Time histories of tensile force in geogrid arranged in two full-scale high walls, *Geosynthetics International*, Vol.17, No.1, pp.12-33.
- 7.3 Soga, D., Takano, Y., Yonezawa, T., Koda, H., Tateyama, M. & Tatsuoka, F. 2018. Design and construction of various type GRS structures for a new high-speed railway, *Proc. IIICG*, Seoul.
- 7.4 Sugimoto, T., Kawahata, S., Yoshida, T., Itoh, M. and Tatsuoka, F. 2010. Post-construction behaviour of two high geogrid-reinforced soil retaining walls for Fujisan-Shizuoka airport, *Proc. 9th International Conference on Geosynthetics*, Brazil, pp.1709-1714.
- 7.5 Tateyama, M., Murata, O., Watanabe, K. and Tatsuoka, F. 1994. Geosynthetic-reinforced retaining walls for bullet train yard in Nagoya, Proc. of Int. Symposium Recent Case Histories of Permanent Geosynthetic-Reinforced Soil Retaining Walls (Leshchinsky et al. eds.), Balkema, pp.141-150.
- 7.6 Tatsuoka, F., Tateyama, M. and Koseki, J. 2012. GRS structures recently developed and constructed for

railways and roads in Japan, Keynote lecture, *Proc. Second International Conference on Transportation Geotechnics (IS-Hokkaido 2012)* (Miura et al., eds.): 63-84.

- 7.7 Tatsuoka, F., Tateyama, M., Koseki, J. & Yonezawa, T. 2014. Geosynthetic-reinforced soil structures for railways in Japan, *Transportation Infrastructure Geotechnology*, Springer, Vol.1, No.1, pp.3-53.
- 7.8 Tatsuoka, F. & Watanabe, K. 2015. Design, construction and performance of GRS structures for railways in Japan, *Ground Improvement Case Histories- Compaction, Grouting and Geosynthetics* (Buddhima Indraratna et al., eds.), Elsevier, pp.657-692.
- 7.9 Yonezawa, T., Yamazaki, T., Tateyama, M. & Tatsuoka, F. 2014. Design and construction of geosynthetic-reinforced soil structures for Hokkaido high-speed train line, *Transportation Geotechnics*, Elsevier, Vol.1, No.1, pp.3-20.