ACADEMIC SHORT CV

Department of Civil and Environmental Engineering
The University of Tokushima
2-1 Minami-josanjima-cho, Tokushima 770-8506, Japan

NAME: **Jing-Cai JIANG**

CURRENT POSITION: **Associate Professor of Geotechnical Engineering**

Academic Qualifications:

1997 D.E. Geotechnical Engineering, The University of Tokushima

1986 M.E. Geotechnical Engineering, Hohai University (China)

1983 B.E. Engineering Geology and hydrogeology, Hohai University (China)

Membership and Committees:

2007 Japan Association for Earthquake Engineering

2000 The Japan Landslide Society

1994 International Society for Soil Mechanics and Geotechnical Engineering

1994 Japan Society of Civil Engineers

The Japanese Geotechnical Society

Present and recent interests of research:

- Risk assessment of earthquake-induced landslides
- Seismic instability evaluation of large scale cut/rock slopes
- Characteristics of slip surfaces and ground water of landslides in fissure soils
- Static/dynamic shear strengths of landslide soils and slope stabilization design
- Rockfall numerical simulation using DEM and DDA

Research Publications:

Refereed Journal Articles:

K. Zhang, Q. Yang and J.-C. Jiang: Numerical simulation of 2D crack growth with frictional contact in brittle materials, International Journal of GEOMATE (Geotechnique, Construction Materials and Environment), Vol. 3, No. 1&2, pp. 339-342, 2012.

B. Zhou, X. Y. Xie, Y. B. Yang and J.-C. Jiang: A novel vibration-based structure health monitoring approach for the shallow buried tunnel, International Journal of Computer Modeling in Engineering and Science (CMES), Vol. 86 (4), pp. 321-348, 2012.

T. Nian, J.-C. Jiang, S. Wan and M.T. Luan: Strength reduction FE analysis of the stability of bank slopes subjected to transient unsaturated seepage, The Electronic Journal of Geotechnical Engineering, Bundle A, Vol. 16, pp. 165-177, 2011.

J.-C. Jiang, Y. Kanda and S. Nakano: A limit equilibrium-base seismic stability analysis and design of embankment slopes with a sheet pile, National Symposium on Earthquake Engineering, JAEE, pp. 3449-3454, 2010.(in Japanese)

J.-C. Jiang, T. Yamagami and V. B. Nguyen: Case studies for earthquake-induced permanent displacements of embankment slopes, National Symposium on Earthquake Engineering, JAEE, pp. 149-155, 2009.(in Japanese)

J.-C. Jiang, K. Yokino & T. Yamagami: Identification of DEM parameters for rockfall simulation analysis, Chinese Journal of Rock Mechanics and Engineering (accepted for publication in Jul., 2008).

J.-C. Jiang & T. Yamagami: A new back analysis of strength parameters from single slips, Computers and Geotechnics, 35 (3), 286-291, 2008.

J.-C. Jiang & T. Yamagami: Charts for estimating strength parameters from slips in homogeneous slopes, Computers and Geotechnics, 33 (6-7), 294-304, 2006.

Papers in Refereed Conference Proceedings:

J.-C. Jiang and S. Nakano: A comparison of predicted and observed slope failures due to the 2004 Niigata-Ken Chuetsu Earthquake, Proceedings of the International Symposium on Earthquake-Induced Landslides, pp. 791-797, Nov. 2012.

J.-C. Jiang, T. Yamagami and Q. Yang: Seismic instability assessment of rock slopes in a large area based on planar sliding mode, Proceedings of the 12th ISRM International Congress on Rock Mechanics, pp. 1927-1930, Oct., 2011.

K. Zhang, Q. Yang and J.-C. Jiang: Experimental and numerical research on crack propagation in rock under uniaxial compression, Proceedings of the 12th ISRM International Congress on Rock Mechanics, pp. 915- 920, Oct., 2011.

K. Onishi, J.-C. Jiang, T. Yamagami and S. Yamabe: Progressive failure analysis and design of nail-reinforced slopes. Proceedings of the 4th Sino-Japan Symposium on Geotechnical Engineering, pp. 325-330, Apr. 2010.

T. Furuya and J.-C. Jiang: Strength parameters back analyzed from a failed cut slope, Proceedings of the 4th Sino-Japan Symposium on Geotechnical Engineering, pp. 162-167, Apr. 2010.

J.-C. Jiang & T. Yamagami: Strength parameters from back analysis of slips in two-layer slopes, Proceedings of the 10th International Symposium on Landslides and Engineered Slopes, 747-753, Jul. 2008.

J.-C. Jiang & T. Yamagami: Failure patterns of the ground surrounding rigid piles in sand subjected to lateral soil movements, Proceedings of the 3rd Sino-Japan Symposium on Geotechnical Engineering, 213-222, Nov. 2007.

J.-C. Jiang, T. Yamagami & S. Yamabe: Simplified design method for reinforced slopes considering progressive failure, Proceedings of the 5th International Symposium on Earth Reinforcement, 551-557, Nov. 2007.

J.-C. Jiang & T. Yamagami: Conventional and modified design methods for landslide stabilizing piles: a comparison of results, Proceedings of the 10th Australia New Zealand Conference on Geomechanics, 2, 638-643, Oct. 2007.

J.-C. Jiang & T. Yamagami: Anchor forces needed to increase slope stability: a comparison of conventional and modified procedures, Proceedings of An International Conference on Geotechnical Engineering, 103-110, Dec. 2006.

J.-C. Jiang & T. Yamagami: Regional seismic slope instability assessment using Newmark's method and geographical information system, Proceedings of the 4th Asian Joint Symposium on Geotechnical and Geo-Environmental Engineering, 247-252, Nov. 2006.