

Selected Publications by A.T.C. Goh

- 1) BROMS, B. B., PANDEY, P. C. and **GOH, A. T. C.** (1987) The lateral displacement of piles from embankment loads. *Journal of the Japan Society of Civil Engineers*, Japan, No.388/III- 8, pp. 1-11, December.
- 2) **GOH, A. T. C.** (1990) Assessment of the stability of braced excavation systems using the finite element method. *Computer and Geotechnics Journal*, U.K., vol. 10, 325-338.
- 3) **GOH, A. T. C.** (1991) Potential applications of expert systems in geotechnical engineering. *Australian Geomechanics Journal*, Australia, vol. 20, 49-53.
- 4) TAY, J. H. and **GOH, A. T. C.** (1991) Engineering properties of incinerator residue. *Journal of the Environmental Engineering Division, American Society of Civil Engineers*, USA, vol. 117 (2), 224-235.
- 5) **GOH, A. T. C.** (1992) A knowledge-based system approach for flexible pavement design. *Road & Transport Research Journal*, Australian Road Research, Australia, vol. 1 (3), 20-29.
- 6) **GOH, A. T. C.** (1993) Advisory expert system for flexible pavement design. *Journal of Artificial Intelligence in Engineering*, Computational Mechanics Publications, U.K., vol. 8 (1), 47-56.
- 7) **GOH, A. T. C.** and TAY, J. H. (1993) Municipal solid waste incinerator fly ash for geotechnical applications. *Journal of Geotechnical Engineering, American Society of Civil Engineers*, USA, vol. 119 (5), 811-825.
- 8) **GOH, A. T. C.** (1993) Behavior of cantilever retaining walls. *Journal of Geotechnical Engineering, American Society of Civil Engineers*, USA, vol. 119 (11), 1751-1770.
- 9) **GOH, A. T. C.** (1994) Estimating basal-heave stability for braced excavations in soft clay. *Journal of Geotechnical Engineering, American Society of Civil Engineers*, USA, vol. 120 (8), 1430-1436.
- 10) **GOH, A. T. C.** (1994) Seismic liquefaction potential assessed by neural networks. *Journal of Geotechnical Engineering, American Society of Civil Engineers*, USA, vol. 120 (9), 1467-1480.
- 11) **GOH, A. T. C.** (1994) Comparison of methods for determining retaining wall earth pressures from surface line loads. *Australian Geomechanics Journal*, Australia, vol. 25, 87-91.
- 12) **GOH, A. T. C.** (1994) Some civil engineering applications of neural networks. *Structures and Building Journal, Institution of Civil Engineers*, U.K., vol. 104(10), 463-469.
- 13) **GOH, A. T. C.** (1994) Nonlinear modelling in geotechnical engineering using neural networks. *Civil Engineering Transactions, The Institution of Engineers*, Australia, vol. 36(4), 293-297.
- 14) **GOH, A. T. C.** and McMANUS, K. J. (1994) Development of an intelligent pavement management database system. *Robotics and Computer-Integrated Manufacturing Journal*, Pergamon Press, U.K., vol. 11(3), 213-220.
- 15) **GOH, A. T. C.** (1994) Overview of neural network modelling. *Australian Geomechanics Journal*, Australia, vol. 26, 11-16.
- 16) **GOH, A. T. C.** (1995) Neural networks for evaluating CPT calibration chamber test data. *International Journal of Microcomputers in Civil Engineering*, Elsevier Applied Science, U.K., vol. 10(2), 47-51.
- 17) **GOH, A. T. C.** (1995) Behavior of cantilever retaining walls - Closure. *Journal of Geotechnical Engineering, American Society of Civil Engineers*, USA, vol. 121(2), 237-238.
- 18) **GOH, A. T. C.** (1995) Prediction of ultimate shear strength of deep beams using neural networks. *American Concrete Institute Journal*, USA, vol. 92(1), 28-32.
- 19) **GOH, A. T. C.** (1995) Empirical design in geotechnics using neural networks. *Geotechnique*. Institution of Civil Engineers, U.K., vol. XLV(4), 709-714.
- 20) **GOH, A. T. C.** (1995) Modeling soil correlations using neural networks. *Journal of Computing in Civil Engineering, American Society of Civil Engineers*, USA, vol. 9(4), 275-278.
- 21) **GOH, A. T. C.** (1995) Experiments with neural networks as a design-support tool for complex engineering systems.

Civil Engineering Systems Journal, U.K., vol. 12, 327-342.

- 22) **GOH, A. T. C.**, WONG, K. S. and BROMS, B. B. (1995) Estimation of lateral wall movements in braced excavations using neural networks. *Canadian Geotechnical Journal*, Canada, vol. 32(6), 1059-1064.
- 23) **GOH, A. T. C.** (1995) Back propagation neural networks for modeling complex systems. *Journal of Artificial Intelligence in Engineering*, Elsevier Applied Science, U.K., vol. 9(3), 143-151.
- 24) **GOH, A. T. C.** (1996) Neural network modeling of CPT seismic liquefaction data. *Journal of Geotechnical Engineering, American Society of Civil Engineers*, USA, vol. 122(1), 70-73.
- 25) **GOH, A. T. C.** (1996) Pile driving records reanalyzed using neural networks. *Journal of Geotechnical Engineering, American Society of Civil Engineers*, USA, vol. 122(6), 492-495.
- 26) **GOH, A. T. C.** (1996) Seismic liquefaction potential assessed by neural networks - Closure. *Journal of the Geotechnical and Geoenvironmental Engineering Division, American Society of Civil Engineers*, USA., vol. 122(4), 325-326.
- 27) **GOH, A. T. C.**, TEH, C. I. and WONG, K. S. (1997) Analysis of piles subjected to embankment induced lateral soil movements. *Journal of Geotechnical and Geoenvironmental Engineering, American Society of Civil Engineers*, USA., vol. 123(9), 792-801.
- 28) TEH, C. I., WONG, K. S., **GOH, A. T. C.** and JARITNGAM, S. (1997) Prediction of pile capacity using neural networks. *Journal of the Computing in Civil Engineering, American Society of Civil Engineers*, USA, vol. 11(2), 129-138.
- 29) **GOH, A. T. C.** (1997) Modeling soil correlations using neural networks - Closure. *Journal of Computing in Civil Engineering, American Society of Civil Engineers*, USA, vol. 11(1), pg. 79.
- 30) **GOH, A. T. C.** (1997) A hybrid neural network based pavement management system. *Road & Transport Research Journal, Australian Road Research Board*, Australia, vol. 6(4), 62-71.
- 31) CHUANG, P. H., **GOH, A. T. C.** and WU, X.(1998) Modeling the capacity of pin-ended slender reinforced concrete columns using neural networks. *Journal of Structural Engineering, American Society of Civil Engineers*, USA, vol. 124(7), 830-838.
- 32) **GOH, A. T. C.**, TEH, C. I. and WONG, K. S. (1999) Analysis of piles subjected to embankment induced lateral soil movements - Closure. *Journal of Geotechnical and Geoenvironmental Engineering, American Society of Civil Engineers*, USA., vol. 125(5), 427.
- 33) **GOH, A. T. C.** (1999) Genetic algorithm search for critical slip surface in multi-wedge stability analysis. *Canadian Geotechnical Journal*, Canada, vol. 36(4), 382-391.
- 34) **GOH, A. T. C.** (1999) Soil laboratory data interpretation using generalized regression neural network. *Civil Engineering and Environmental Systems*, U.K., vol. 16, 175-195.
- 35) **GOH, A. T. C.** (2000) Search for critical slip circle using genetic algorithms. *Civil Engineering and Environmental Systems*, U.K., vol. 17, 181-211.
- 36) PAN, J. L., **GOH, A. T. C.**, WONG, K. S. and TEH, C. I. (2000) Model tests on single piles in soft clay. *Canadian Geotechnical Journal*, Canada, vol. 37(4), 890-897.
- 37) **GOH, A. T. C.**, and WONG K. S. (2000) Pile responses caused by tunneling - Discussion. *Journal of Geotechnical and Geoenvironmental Engineering, American Society of Civil Engineers*, USA., vol. 126(6), 580.
- 38) POH T.Y., **GOH, A. T. C.**, and WONG I.H. (2001) Ground movements associated with wall construction case histories. *Journal of Geotechnical and Geoenvironmental Engineering, American Society of Civil Engineers*, USA. vol. 127(12), 1061-1074.
- 39) **GOH, A. T. C.** (2001) *Invited Contribution* Neural networks applications in geotechnical engineering. Special Issue on Neural Computing in Civil Engineering. *Scientia Iranica International Journal of Science & Technology*, Iran, Vo. 8(1), 1-9.
- 40) PAN, J. L., **GOH, A. T. C.**, WONG, K. S., and SELBY, A. R. (2002) Three-dimensional analysis of pile response to lateral soil movements. *International Journal for Numerical and Analytical Methods in Geomechanics*, USA, vol. 26, 747-748.

- 41) **GOH, A. T. C.** (2002) Probabilistic neural network for evaluating seismic liquefaction potential. *Canadian Geotechnical Journal*, Canada, vol. 39(1) 219-232.
- 42) PAN, J. L., **GOH, A. T. C.**, WONG, K. S., and TEH, C. I. (2002) Ultimate soil pressures for piles subjected to lateral soil movements. *Journal of Geotechnical and Geoenvironmental Engineering, American Society of Civil Engineers*, USA., vol. 128(6), 530-535.
- 43) **GOH, A. T. C.** (2002) Prediction of ultimate shear strength of reinforced-concrete deep beams using neural networks - Discussion. *Journal of Structural Engineering, American Society of Civil Engineers*, USA, vol. 128(12), pp. 1624.
- 44) **GOH, A. T. C.**, WONG, K. S., TEH, C. I., and WEN, D. (2003) Pile response adjacent to braced excavations. *Journal of Geotechnical and Geoenvironmental Engineering, American Society of Civil Engineers*, USA., vol. 129(4), 383-386.
- 45) SHOW, K. Y., TAY, J. H. and **GOH, A. T. C.** (2003) Reuse of incinerator fly ash in soft soil stabilization. *Journal of Materials in Civil Engineering, American Society of Civil Engineers*, USA., vol. 15(4), 335-343.
- 46) CHUA, C. G. and **GOH, A. T. C.** (2003) A hybrid Bayesian neural network approach to multivariate modelling. *International Journal for Numerical and Analytical Methods in Geomechanics*, USA, vol. 27(8), 651-667.
- 47) **GOH, A. T. C.** and KULHAWY, F. H. (2003) Neural network approach to model the limit state surface for reliability analysis. *Canadian Geotechnical Journal*, Canada, vol. 40 (6), 1235-1244.
- 48) **GOH, A. T. C.** and CHUA, C. G. (2004) Nonlinear modeling with confidence estimation using Bayesian neural network. *Electronic Journal of Structural Engineering*, Australia, vol. 1, 108-118.
- 49) **GOH, A. T. C.**, KULHAWY, F. H. and CHUA, C. G. (2005) Bayesian neural network analysis of undrained side resistance of drilled shafts. *Journal of Geotechnical and Geoenvironmental Engineering, American Society of Civil Engineers*, USA, vol. 131 (1), 84-93.
- 50) CHUA, C. G. and **GOH, A. T. C.** (2005) Estimating wall deflections in deep excavations using Bayesian neural networks. *Tunnelling and Underground Sapce Technology*, Elsevier, UK, vol. 20 (4), 400-409.
- 51) **GOH, A. T. C.** and KULHAWY, F. H. (2005) Reliability assessment of serviceability performance of braced retaining walls using a neural network approach. *International Journal for Numerical and Analytical Methods in Geomechanics*, USA, vol. 29 (6), 627-642.
- 52) MIAO, L., **GOH, A. T. C.**, WONG, K. S. and TEH, C. I. (2006) Three-dimensional finite element analyses of passive pile behaviour. *International Journal for Numerical and Analytical Methods in Geomechanics*, USA, vol. 30(9), 599-613.
- 53) **GOH, A. T. C.** and GOH, S. H. (2007) *Invited Contribution* Support vector machines: their use in geotechnical engineering as illustrated using seismic liquefaction data. *Computers and Geotechnics*, 34(5), 410-421.
- 54) **GOH, A. T. C.**, KULHAWY, F. H. and WONG, K. S. (2008) Reliability assessment of basal heave stability for braced excavations in clay. *Journal of Geotechnical and Geoenvironmental Engineering, American Society of Civil Engineers*, USA. vol. 133(2), 145-153.
- 55) **GOH, A. T. C.**, PHOON, K.K. and KULHAWY, F. H. (2009) Reliability analysis of partial safety factor design method for cantilever retaining walls in granular soils. *Journal of Geotechnical and Geoenvironmental Engineering, American Society of Civil Engineers*, USA. vol. 134 (in print).