

CURRICULUM VITAE

Gwo-Fong LIN

Distinguished Professor

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Education:

Ph.D., Civil Engineering, December, 1982. University of Pittsburgh, PA, USA.

M.Sc., Water Resources Engineering, April, 1978. Asian Institute of Technology, Thailand.

B.Sc., Agricultural Engineering, June, 1976. National Taiwan University, Taipei, Taiwan.

Field of expertise:

Stochastic Hydrology and Hydraulics, Hydroinformatics, Computational Hydraulics, Risk and Reliability Analysis, ANN

Professional experience (selected):

Chairman, Department of Civil Engineering, National Taiwan University (2001-2004)

Director, Hydrotech Research Institute, National Taiwan University (1997-2000)

Editor-in-Chief (2006-2010), Editor-in-Charge (1990-1998), Journal of the Chinese Institute of Civil and Hydraulic Engineering

Editorial Board Member, Stochastic Hydrology and Hydraulics (1990-1998)

Associate Editor (2010~), Editorial Board Member (2006-2010), Journal of Hydroinformatics

Editor-in-Chief, Hydrological Science Volume, Advances in Geosciences, World Scientific Publishing Company (since 2010)

Honors (selected):

Fellow, Chinese Institute of Civil and Hydraulic Engineering (2009)

Outstanding Teaching Award, Ministry of Education, Taiwan (1992)

Industry-Academy Cooperation Award, Ministry of Education, Taiwan (2003)

Excellent Research Awards, National Science Council, Taiwan (1990~1994)

Paper Awards, Chinese Institute of Civil and Hydraulic Engineering, Taiwan (1990, 1997)

Outstanding Research Award, Tai-tjing Foundation, Taiwan (2001)

Chi Epsilon, the National Civil Engineering Honor Society, USA (1980)

PUBLICATIONS

(A) Refereed Journal papers

1. C.L. Chiu, G.F. Lin, 1983, "Computation of 3-D Flow and Shear in Open Channel," *Journal of Hydraulic Engineering*, ASCE, Vol. 109, No. 11, pp. 1424-1440. **(SCI)**
2. P.S. Lin, B.L. Chu, G.F. Lin, 1984, "Study on the Failure of Mountain Bridge Foundation," *Journal of Civil and Hydraulic Engineering*, Vol. 11, No. 1, pp. 63-71.
3. G.F. Lin*, Y.K. Ng, 1985, "Application of Markov Lag-1 Model on Generating Streamflow Series," *Journal of Science and Engineering of National Chung-Hsing University*, Vol. 22, pp. 285-308.
4. G.F. Lin*, J.Y. Chen, 1985, "Study on Future Water Requirements of Nantou County," *Journal of Chinese Agricultural Engineering*, Vol. 47, No. 2, pp. 25-34.
5. G.F. Lin*, F.C. Lee, 1986, "Application of Disaggregation Model to Cho-Shui River Watershed," *Journal of Chinese Agricultural Engineering*, Vol. 32, No. 4, pp. 13-21.
6. G.F. Lin*, F.C. Lee, 1990, "Study on the Parameter Matrix of the Random Component of Multivariate Time-Series Models," *Journal of the Chinese Institute of Engineers*, Vol. 13, No. 1, pp. 35-43. **(EI)**
7. G.F. Lin*, 1990, "Corrected Parameter Estimates for Staged Disaggregation," *Journal of the Chinese Institute of Engineers*, Vol. 13, No. 4, pp. 405-416. **(EI)**
8. G.F. Lin*, 1990, "Parameter Estimation for Seasonal to Subseasonal Disaggregation," *Journal of Hydrology*, Vol. 120, Issues 1-4, pp. 65-77. **(SCI)**
9. J.T. Kuo, G.F. Lin, 1992, "Review and Future of Drought Problems in Taiwan Area," *Journal of Civil and Hydraulic Engineering*, Vol. 18, No. 4, pp. 33-37.
10. F.C. Lee, G.F. Lin*, 1992, "Relationship between Disaggregation and Aggregation Approaches in Hydrologic Time-Series Simulations," *Journal of the Chinese Institute of Civil and Hydraulic Engineering*, Vol. 4, No. 2, pp. 139-145.
11. G.F. Lin*, F.C. Lee, 1992, "Multistage Disaggregation Process in Stochastic Hydrology," *Water Resources Management*, Vol. 6, No. 2, pp. 101-115. **(EI)**
12. G.F. Lin*, F.C. Lee, 1992, "An Aggregation-Disaggregation Approach for Hydrologic Time Series Modelling," *Journal of Hydrology*, Vol. 138, Issues 3-4,

pp. 543-557. (SCI)

13. C.L. Chiu, G.F. Lin, J.M. Lu, 1993, "Application of Probability and Entropy Concepts in Pipe Flow Study," *Journal of Hydraulic Engineering*, ASCE, Vol. 119, No. 6, pp. 742-756. (SCI)
14. G.F. Lin*, 1993, "Study on Rainfall Patterns in Taiwan," *Communications on Disaster Mitigation Technology*, Vol. 10, No. 4, pp. 1-4.
15. P.H. Lin, G.F. Lin*, M.H. Hsu, R.Y. Wang, 1994, "Effects of Tidal Stage on Storm Sewer System Modeling," *Journal of Chinese Agricultural Engineering*, Vol. 40, No. 3, pp. 1-14.
16. G.F. Lin*, F.C. Lee, 1994, "Assessment of Aggregated Hydrologic Time Series Modelling," *Journal of Hydrology*, Vol. 156, Issues 1-4, pp. 447-458. (SCI)
17. G.F. Lin*, Y.M. Wang, 1996, "General Stochastic Instantaneous Unit Hydrograph," *Journal of Hydrology*, Vol. 182, Issues 1-4, pp. 227-238. (SCI)
18. G.F. Lin*, Y.M. Wang, P.K. Lin, 1996, "Stochastic Analysis of Unsteady One-Dimensional Flow in an Unconfined Aquifer," *Journal of the Chinese Institute of Civil and Hydraulic Engineering*, Vol. 8, No. 3, pp. 387-395.
19. G.F. Lin*, P.C. Ho, 1999, "Reliability Analysis of Breakwaters during Typhoon Period," *Journal of Chinese Agricultural Engineering*, Vol. 45, No. 2, pp. 11-20.
20. G.F. Lin*, 1999, "Water Resources Engineering Technology for the Twenty-first Century," *Journal of Civil and Hydraulic Engineering*, 26(2).
21. G.F. Lin*, H.C. Wu, Y.M. Wang, 1999, "Stochastic Modeling of Annual Storm-Floods," *Journal of the Chinese Institute of Civil and Hydraulic Engineering*, Vol. 11, No. 3, pp. 175-180.
22. F.C. Lee, G.F. Lin*, 1999, "Preservation of Historical Annual Covariances by the Aggregated ARMA(1,1) Model," *Journal of the Chinese Institute of Civil and Hydraulic Engineering*, Vol. 11, No. 4, pp. 175-181.
23. J.S. Lai, G.F. Lin*, W.C. Liu, W.D. Guo, 2000, "Sediment Silting and Flushing Experiments at Steep Sloped Stream after Dam Construction," *Journal of Taiwan Water Conservancy*, Vol. 48, No. 4, pp. 70-78.
24. G.F. Lin*, L.H. Chen, M.C. Chen, 2000, "Analysis of Rain Gage Network for the Hillslope Area of Taipei City," *Journal of Taiwan Water Conservancy*, Vol. 48, No. 4, pp. 34-40.
25. G.F. Lin*, Y.R. Chen, M.H. Hsu, R.Y. Wang, 2001, "Modeling of Storm Sewer System with Dividing Flow," *Journal of Taiwan Water Conservancy*, Vol. 49,

No. 2, pp. 9-18.

26. G.F. Lin*, L.H. Chen, Y.C. Huang, 2001, "Study on Rainfall Depth-Area-Duration Relationships," *Journal of Chinese Agricultural Engineering*, Vol. 47, No. 2, pp. 40-51.
27. G.F. Lin*, L.H. Chen, M.C. Chen, 2001, "Study on the Design of Rainfall Network," *Journal of Chinese Soil and Water Conservation*, Vol. 32, No. 2, pp. 87-95.
28. G.F. Lin*, J.S. Lai, Y.R. Lin, 2001, "Modeling Vertical Two-Dimensional Suspended Sediment Transport," *Journal of the Chinese Institute of Civil and Hydraulic Engineering*, Vol. 13, No. 2, pp. 175-180.
29. Y.C. Chang, C.E. Kan, G.F. Lin*, Y.C. Lee, C.L. Chiu, 2001, "Potential Benefits of Increased Application of Water to Paddy Fields in Taiwan," *Hydrological Processes*. Vol. 15, Issue 8, pp. 1515-1524. **(SCI)**
30. D.C.F. Shih, G.F. Lin, 2001, "Uncertainty Analysis for Corrosion Depth of Nuclear Spent Fuel Canister," *INER Quarterly*, No. 41, pp. 117-121.
31. J.S. Lai, G.F. Lin*, S.J. Tsorng, 2002, "A Physical Model Study on Flushing Sediment near the Intake in a Reservoir," *Taiwan Water Conservancy*, Vol. 50, No. 1, pp. 24-33.
32. W.C. Liu, G.F. Lin*, G.R. Chen, M.C. Wu, 2002, "Establishment of Database of Water Resources Models," *Journal of Taiwan Water Conservancy*, Vol. 50, No. 4, pp. 24-35.
33. D.C.F. Shih, G.F. Lin, 2002, "Spectral Analysis of Water Level Fluctuations in Aquifers," *Stochastic Environmental Research and Risk Assessment*, Vol. 16, No. 5, pp. 374-398. **(SCI)**
34. D.C.F. Shih, G.F. Lin, I.S. Wang, 2002, "Contaminant Transport in a Single Fractured Media: Analytical Solution and Sensitivity for Considering Pulse, Dirac Delta and Single Sinusoid Input Sources," *Hydrological Processes*, Vol. 16, Issue 16, pp. 3265-3278. **(SCI)**
35. G.F. Lin*, J.S. Lai, W.D. Guo, 2003, "Finite-volume Component-wise TVD Schemes for 2D Shallow Water Equations," *Advances in Water Resources*, Vol. 26, Issue 8, pp. 861-873. **(SCI)**
36. G.F. Lin*, L.H. Chen, 2003, "A Reliability-based Selective Index for Regional Flood Frequency Analysis Methods," *Hydrological Processes*, Vol. 17, Issue 13, pp. 2653-2663. **(SCI)**

37. G.F. Lin*, L.H. Chen, 2004, "A Spatial Interpolation Method Based on Radial Basis Function Networks Incorporating a Semivariogram Model," *Journal of Hydrology*, Vol. 288, Issues 3-4, pp. 288-298. **(SCI)**
38. G.F. Lin*, L.H. Chen, 2004, "A Non-linear Rainfall-runoff Model Using Radial Basis Function Network," *Journal of Hydrology*, Vol. 289, Issues 1-4, pp. 1-8. **(SCI)**
39. G.F. Lin*, C.M. Chen, 2004, "Stochastic Analysis of Spatial Variability in Unconfined Groundwater flow," *Stochastic Environmental Research and Risk Assessment*, Vol. 18, No. 2, pp. 100-108. **(SCI)**
40. C.T. Chen, C.E Kan, G.F. Lin*, 2004, "An Irrigation Water Distribution Model for Area of Mixed Cultivation," *Journal of the Chinese Institute of Engineers*, Vol. 27, No. 3, pp. 343-356. **(SCI)**
41. D.C.F. Shih, G.F. Lin, 2004, "Application of Spectral Analysis to Determine Hydraulic Diffusivity of a Sandy Aquifer (Pintung County, Taiwan)," *Hydrological Processes*, Vol. 18, Issue 9, pp. 1655-1669. **(SCI)**
42. G.F. Lin*, L.H. Chen, J.N. Lai, 2004, "Reliability-Based Delineation of Debris-Flow Deposition Areas," *Natural Hazards*, Vol. 32, Issue 3, pp. 395-412. **(SCI)**
43. G.F. Lin*, C.M. Wang, S.C. Kao, 2004, "Establishment and Application of Regional Design Hyetographs," *Bulletin of the College of Engineering, National Taiwan University*, No. 92, pp. 1-9.
44. G.F. Lin*, L.H. Chen, S.C. Kao, 2005, "Development of Regional Design Hyetographs," *Hydrological Processes*, Vol. 19, Issue 4, pp. 937-946. **(SCI)**
45. G.F. Lin*, G.R. Chen, 2005, "Determination of Aquifer Parameters Using Radial Basis Function Network Approach," *Journal of the Chinese Institute of Engineers*, Vol. 28, No. 2, pp. 241-249. **(SCI)**
46. G.F. Lin*, J.S. Lai, W.D. Guo, 2005, "Reply to comment by R. Artebrant on Finite-volume Component-wise TVD Schemes for 2D Shallow Water Equations," *Advances in Water Resources*, Vol. 28, Issue 4, pp. 427. **(SCI)**
47. G.F. Lin*, L.H. Chen, 2005, "Application of Artificial Neural Network to Typhoon Rainfall Forecasting," *Hydrological Processes*, Vol. 19, Issue 9, pp. 1825-1837. **(SCI)**
48. J.S. Lai, G.F. Lin*, W.D. Guo, 2005, "Simulation of Hydraulic Shock Waves by Hybrid Flux-splitting Schemes in Finite Volume Method," *Journal of Mechanics*, Vol. 21, No. 2, pp. 85-101. **(SCI)**

49. G.F. Lin*, L.H. Chen, 2005, "Time Series Forecasting by Combining the Radial Basis Function Network and the Self-organizing Map," *Hydrological Processes*, Vol. 19, Issue 10, pp. 1925-1937. **(SCI)**
50. G.F. Lin*, G.R. Chen, 2005, "Quantifying Uncertainty of the Semivariogram of Transmissivity of an Existing Groundwater Monitoring Network," *Hydrological Processes*, Vol. 19, Issue 10, pp. 2023-2034. **(SCI)**
51. J.S. Lai, G.F. Lin*, W.D. Guo, 2005, "An Upstream Flux-splitting Finite-volume Scheme for 2D Shallow Water Equations," *International Journal for Numerical Methods in Fluids*, Vol. 48, Issue 10, pp. 1149-1174. **(SCI)**
52. G.F. Lin*, J.S. Lai, W.D. Guo, 2005, "High-resolution TVD Schemes in Finite Volume Method for Hydraulic Shock Wave Modeling," *Journal of Hydraulic Research*, Vol. 43, No. 4, pp. 376-389. **(SCI)**
53. G.F. Lin*, J.S. Lai, W.D. Guo, 2005, "Performance of High-resolution TVD Schemes for 1D Dam-break Simulations," *Journal of the Chinese Institute of Engineers*, Vol. 28, No. 5, pp. 771-781. **(SCI)**
54. G.F. Lin*, G.R. Chen, 2006, "An Improved Neural Network Approach to the Determination of Aquifer Parameters," *Journal of Hydrology*, Vol. 316, Issues 1-4, pp. 281-289. **(SCI)**
55. D.C.F. Shih, G.F. Lin, 2006, "Uncertainty and Importance Assessment Using Differential Analysis: An Illustration of Corrosion Depth of Nuclear Spent Fuel Canister," *Stochastic Environmental Research and Risk Assessment*, Vol. 20, No. 4, pp. 291-295. **(SCI)**
56. G.F. Lin*, L.H. Chen, 2006, "Identification of Homogeneous Regions for Regional Frequency Analysis Using the Self-organizing Map," *Journal of Hydrology*, Vol. 324, Issues 1-4, pp. 1-9. **(SCI)**
57. G.F. Lin*, L.H. Chen, J.N. Lai, 2006, "Assessment of Risk due to Debris Flow Events: A Case Study in Central Taiwan," *Natural Hazards*, Vol. 39, Issue 1, pp. 1-14. **(SCI)**
58. G.F. Lin*, C.M. Wang, 2006, "Performing Cluster Analysis and Discrimination Analysis of Hydrological Factors in One Step," *Advances in Water Resources*, Vol. 29, Issue 11, pp 1573-1585. **(SCI)**
59. K.H. Chen, P.C. Lu, G.F. Lin, 2006, "Using Fuzzy Inference System to the Prediction of Debris Flow Inducement in Hualien," *Journal of Chinese Soil and Water Conservation*, Vol. 37, No. 1, pp. 23-32.
60. G.F. Lin*, 2006, "Study on Radial Basis Function Network in Hydrosystem

(1/3),” *Engineering Science and Technology Bulletin*, NSC, No. 86, pp. 7-12.

61. G.F. Lin*, M.C. Wu, 2007, “A SOM-based Approach to Estimating Design Hyetographs of Ungauged Sites,” *Journal of Hydrology*, Vol. 339, Issues 3-4, pp. 216-226. **(SCI)**
62. G.F. Lin*, C.M. Wang, 2007, “A Nonlinear Rainfall-runoff Model Embedded with an Automated Calibration Method. Part 1. The Model,” *Journal of Hydrology*, Vol. 341, Issues 3-4, pp 186-195. **(SCI)**
63. G.F. Lin*, C.M. Wang, 2007, “A Nonlinear Rainfall-runoff Model Embedded with an Automated Calibration Method. Part 2. The Automated Calibration Method,” *Journal of Hydrology*, Vol. 341, Issues 3-4, pp 196-206. **(SCI)**
64. W.D. Guo, J.S. Lai, G.F. Lin*, 2007, “Hybrid Flux-Splitting Finite-Volume Scheme for the Shallow Water Flow Simulations with Source Terms,” *Journal of Mechanics*, Vol. 23, No. 4, pp. 269-282. **(SCI)**
65. G.F. Lin*, P.Y. Huang, M.C. Wu, G.R. Chen, 2008, “Risk Evaluation of the Water Supply of the Shihmen Reservoir,” *Journal of Engineering Environment*, No. 20, pp. 1-17.
66. D.C.F. Shih, Y.M. Wu, G.F. Lin, J.C. Hu, Y.G. Chen, C.H. Chang, 2008, “Assessment of Long-term Variation in Displacement for a GPS Site Adjacent to a Transition Zone between Collision and Subduction,” *Stochastic Environmental Research and Risk Assessment*, Vol. 22, No. 3, pp. 401-410. **(SCI)**
67. W.D. Guo, J.S. Lai, G.F. Lin, 2008, “Finite-volume Multi-stage Schemes for Shallow-water Flow Simulations,” *International Journal for Numerical Methods in Fluids*, Vol. 57, Issue 2, pp. 177-204. **(SCI)**
68. D.C.F. Shih, G.F. Lin, Y.P. Jia, Y.G. Chen, Y.M. Wu, 2008, “Spectral Decomposition of Periodic Groundwater Fluctuation in a Coastal Aquifer,” *Hydrological Processes*, Vol. 22, Issue 12, pp.1755-1765. **(SCI)**
69. G.F. Lin*, G.R. Chen, 2008, “A Systematic Approach to the Input Determination for Neural Network Rainfall-Runoff Models,” *Hydrological Processes*, Vol. 22, Issue 14, pp.2524-2530. **(SCI)**
70. G.F. Lin*, G.R. Chen, P.Y. Huang, Y.C. Chou, 2009, “Support Vector Machine-based Models for Hourly Reservoir Inflow Forecasting during Typhoon-Warning Periods,” *Journal of Hydrology*, Vol. 372, Issues 1-4, pp. 17-29. **(SCI)**
71. D.C.F. Shih, Y.G. Chen, G.F. Lin, Y.M. Wu, 2009, “Uncertainty Propagation of Hydrodispersive Transfer in an Aquifer: An Illustration of One-dimensional

- Contaminant,” *Stochastic Environmental Research and Risk Assessment*, Vol. 23, No. 5, pp. 613-620. **(SCI)**
72. G.F. Lin*, G.R. Chen, M.C. Wu, Y.C. Chou, 2009, “Effective Forecasting of Hourly Typhoon Rainfall Using Support Vector Machines,” *Water Resources Research*, Vol. 45, Article Number W08440. doi: 10.1029/2009WR007911. **(SCI)**
 73. G.F. Lin*, M.C. Wu, 2009, “A Hybrid Neural Network Model for Typhoon-Rainfall Forecasting,” *Journal of Hydrology*, Vol. 375, Issues 3-4, pp. 450-458. **(SCI)**
 74. C.Y. Ku, S.M. Hsu, L.B. Chiou, G.F. Lin, 2009, “An Empirical Model for Estimating Hydraulic Conductivity of Highly Disturbed Clastic Sedimentary Rocks in Taiwan,” *Engineering Geology*, Vol. 109, Issues 3-4, pp. 213-223. **(SCI)**
 75. G.F. Lin*, M.C. Wu, G.R. Chen, F.Y. Tsai, 2009, “An RBF-based Model with an Information Processor for Forecasting Hourly Reservoir Inflow during Typhoons,” *Hydrological Processes*, Vol. 23, Issue 25, pp. 3598-3609. **(SCI)**
 76. G.F. Lin*, P.Y. Huang, G.R. Chen, 2010, “Using Typhoon Characteristics to Improve the Long Lead-time Flood Forecasting of a Small Watershed,” *Journal of Hydrology*, Vol. 380, Issues 3-4, pp. 450-459. **(SCI)**
 77. D.C.F. Shih, Y.G. Chen, G.F. Lin, Y.M. Wu, Y.P. Jia, C.M. Ma, 2010, “Sea Level Fluctuations on the East Coast of Taiwan that Overlie Continental Shelf Break,” *Stochastic Environmental Research and Risk Assessment*, Vol. 24, No. 1, pp. 29-46. **(SCI)**
 78. G.F. Lin*, M.C. Wu, G.R. Chen, S.J. Liu, 2010, “Construction of Design Hyetographs for Locations without Observed Data,” *Hydrological Processes*, Vol. 24, Issue 4, pp. 481-491. **(SCI)**
 79. J.S. Lai, W.D. Guo, G.F. Lin, Y.C. Tan, 2010, “A Well-balanced Upstream Flux-splitting Finite-volume Scheme for Shallow-water Flow Simulations with Irregular Bed Topography,” *International Journal for Numerical Methods in Fluids*, Vol. 62, Issue 8, pp. 927-944. **(SCI)**
 80. S.M. Hsu, L.B. Chiou, G.F. Lin, C.H. Chao, H.Y. Wen, C.Y. Ku, 2010, “Applications of Simulation Technique on Debris-flow Hazard Zone Delineation: A Case Study in Hualien County, Taiwan,” *Natural Hazards and Earth System Sciences*, Vol. 10, No. 3, pp. 535-545. **(SCI)**
 81. W.D. Guo, J.S. Lai, Y.C. Kuo, G.F. Lin, W.Y. Chang, T.J. Hu, 2010, “A

Finite-volume Upstream-flux-splitting Scheme for Flow Simulations in the Pool-type Fishways,” *Journal of the Chinese Institute of Civil and Hydraulic Engineering*, Vol. 22, No. 2, pp. 167-177. **(EI)**

82. G.F. Lin*, G.R. Chen, P.Y. Huang, 2010, “Effective Typhoon Characteristics and Their Effects on Hourly Reservoir Inflow Forecasting,” *Advances in Water Resources*, Vol. 33, Issue 8, pp. 887-898. **(SCI)**
83. W.D. Guo, J.S. Lai, G.F. Lin, F.Z. Lee, Y.C. Tan “Finite-volume Multi-stage Scheme for Advection-diffusion Modeling in Shallow-water Flows,” *Journal of Mechanics*. **(SCI)** (in press)
84. L.H. Chen, G.F. Lin, “Development of Design Hyetographs for Ungauged Sites Using an Approach Combining PCA, SOM and Kriging Methods,” *Water Resources Management*. **(SCI)** (accepted)

(B) Conference papers after 2004/01 (out of a career total over 180 papers)

1. G.F. Lin, L.H. Chen, 2004, “Application of RBFN Model Established by Fully Supervised Training Rule for Flood Forecasting,” Proceedings of the 2003 Annual Water Resources Management Conference, pp. 6-23~6-34.
2. G.F. Lin, G.R. Chen, K.L. Tu, 2004, “Effects of Field Groundwater Recharge on Saline Water Intrusion in Coastal Areas (1),” Proceedings of the Annual Symposium of the 2003 Agricultural Water Resources Research Projects, Council of Agriculture.
3. G.F. Lin, C.M. Wang, D.R. Chiang, 2004, “Optimization and Feed-Back Algorithm for the Rainfall-Runoff Forecast Model,” Proceedings of the Annual Symposium of the 2003 Agricultural Water Resources Research Projects, Council of Agriculture.
4. G.F. Lin, L.H. Chen, 2004, “Combining the Radial Basis Function Network with the Self-Organizing Map for Time Series Forecasting,” Proceedings of the 6th International Conference on Hydroinformatics, Singapore, Vol. 2, pp. 1425-1432.
5. G.F. Lin, L.H. Chen, 2004, “Application of Improved RBFN Model to Spatial Interpolation,” Proceedings of the 14th Hydraulic Engineering Conference, pp. G50-G57.
6. G.F. Lin, C.M. Wang, 2004, “Automated Calibration Method for the Parameters of the Conceptual Rainfall-Runoff Model,” Proceedings of the 14th Hydraulic Engineering Conference, pp. G126-G133.
7. G.F. Lin, L.H. Chen, 2004, “Typhoon Rainfall Forecasting based on

- Back-Propagation Neural Network Incorporating the Semivariogram Method,” Proceedings of the 2004 Annual Conference of the Taiwan Agricultural Engineers Society, pp. 567-578.
8. G.F. Lin, K.L. Tu, G.R. Chen, 2004, “Effects of Field Groundwater Recharge on Saline Water Intrusion in Coastal Areas,” Proceedings of the 2004 Annual Conference of the Taiwan Agricultural Engineers Society, pp. 1625-1636.
 9. G.F. Lin, G.R. Chen, 2004, “Development of Radial Basis Function Networks for Determining Aquifer Parameters,” Proceedings of the 17th KKCNN symposium on Civil Engineering, Thailand, pp. 563-568.
 10. G.F. Lin, C.M. Wang, 2005, “A Simple Method of Cluster Analysis Using Self-organizing Map,” The Asia Oceania Geosciences Society Second Annual Meeting (AOGS 2005), Singapore.
 11. G.F. Lin, K.L. Tu, G.R. Chen, 2005, “Effects of Field Groundwater Recharge on Saline Water Intrusion in Coastal Areas (2),” Proceedings of the Annual Symposium of the 2004 Agricultural Water Resources Research Projects, Council of Agriculture.
 12. G.F. Lin, L.H. Chen, T.C. Wang, 2005, “Application of Artificial Neural Networks to Typhoon Rainfall Forecasting (1),” Proceedings of the Annual Symposium of the 2004 Agricultural Water Resources Research Projects, Council of Agriculture.
 13. G.F. Lin, M.C. Wu, L.H. Chen, 2005, “Estimation of the Time-variable Parameters of a Rainfall-Runoff Model,” Proceedings of the 2005 Annual Conference of the Taiwan Agricultural Engineers Society, pp. 27-1~27-9.
 14. G.F. Lin, P.Y. Huang, M.C. Wu, L.H. Chen, 2005, “Hydrologic Uncertainty Analysis of the Annual Sedimentation of Shihmen Reservoir,” Proceedings of the 2005 Annual Conference of the Taiwan Agricultural Engineers Society, pp. 33-1~33-9.
 15. G.F. Lin, J.S. Lai, K.L. Tu, L.H. Chen, 2005, “Flow Simulation before/after Dam Construction in Mountain Area,” Proceedings of the 2005 Annual Conference of the Taiwan Agricultural Engineers Society, pp. 100-1~100-6.
 16. G.F. Lin, J.S. Lai, K.L. Tu, W.T. Wang, W.H. Hsu, 2005, “Study on the Hydraulic Model Tests of Fong-Ping River Hydropower Station,” The 9th Cross-Strait Symposium on Hydraulic Technology Exchange, pp. 188-198.
 17. G.F. Lin, M.C. Wu, 2006, “Application of a Clustering Method to Improve the Typhoon Rainfall Forecasting,” The Asia Oceania Geosciences Society Third

Annual Meeting (AOGS 2006), Singapore.

18. G.F. Lin, C.M. Wang, 2006, "Estimate the Fitness of an Automated Calibration Method by the Genetic Algorithms-Based Model," Proceedings of the 15th Hydraulic Engineering Conference, pp. D43-D47.
19. G.F. Lin, T.C. Wang, J.A. Chen, 2006, "Estimate the Capacity of the Detention pond by the combination of two kinds of Hydrograph," Proceedings of the 15th Hydraulic Engineering Conference, pp. D94-D100.
20. G.F. Lin, K.L. Tu, G.R. Chen, 2006, "Effects of Field Groundwater Recharge on Saline Water Intrusion in Coastal Areas (3)," Proceedings of the Annual Symposium of the 2005 Agricultural Water Resources Research Projects, Council of Agriculture.
21. G.F. Lin, L.H. Chen, T.C. Wang, 2006, "Application of Artificial Neural Networks to Typhoon Rainfall Forecasting (2)," Proceedings of the Annual Symposium of the 2005 Agricultural Water Resources Research Projects, Council of Agriculture.
22. G.F. Lin, F.Y. Tsai, M.C. Wu, 2006, "Study on Artificial Neural Networks to Typhoon Rainfall and Flood Forecasting," Proceedings of the 2006 Annual Conference of the Taiwan Agricultural Engineers Society, pp. 1201-1212.
23. S.C. Lee, L.B. Chiou, G.F. Lin, 2007, "A Case Study of Tunnel Excavation Adjacent to a Steep Slope," *Underground Space - The 4th Dimension of Metropolises*, Proceedings of the 33rd ITA-AITES World Tunnel Congress, Prague, Czech Republic, Vol. 1, pp. 539-544.
24. G.F. Lin, C.M. Wang, M.C. Wu, G.R. Chen, 2007, "A Nonlinear Computational Units Cascaded Model for Flood Forecasting," The Asia Oceania Geosciences Society 4th Annual Meeting (AOGS 2007), Bangkok, Thailand.
25. G.F. Lin, P.Y. Huang, G.R. Chen, 2007, "The Influence of Typhoon Characteristics on Flood Forecasting," Proceedings of the 2007 Annual Conference of the Taiwan Agricultural Engineers Society, pp. 248-259.
26. G.F. Lin, G.R. Chen, P.Y. Huang, K.L. Tu, 2007, "Effects of Field Groundwater Recharge on Saline Water Intrusion in Coastal Areas," Proceedings of the Annual Symposium of the 2006 the Agricultural Water Resources Research Projects, pp. 25-35.
27. G.F. Lin, L.H. Chen, G.R. Chen, P.Y. Huang, 2007, "Application of Artificial Neural Networks to Typhoon Rainfall Forecasting," Proceedings of the Annual Symposium of the 2006 Agricultural Water Resources Research Projects,

- Council of Agriculture, pp. 36-46.
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Grants received as PI after 2004/01 (out of a career total over 150 grants)

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