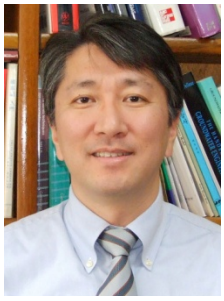
CURRICULUM VITAE



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Education

2, 1989 Bachelor, Civil Engineering, Seoul National University, Korea

6, 1991 Master, Civil & Environmental Engineering, University of Cincinnati, USA

8, 1996 Ph.D., Civil & Environmental Engineering, University of Washington, USA

Positions Held

9, 1996 - 6, 1997 Visiting Scientist, University of Washington, USA

7, 1997 - 2, 1999 Research Associate, Global Hydrology and Climate Center, NASA, USA

3, 1999 - 3, 2002 Senior Lecturer, School of Civil, Urban & Geosystem Engineering,
Seoul National University, Korea

4, 2002 - Present Assistant Professor, Associate Professor, and Professor,
Department of Civil & Environmental Engineering,
Seoul National University, Korea

1, 2006 - 12, 2006 Visiting Professor, Cornell University, USA

12, 2009 - 12, 2012 Principal Investigator,
Project of 'Climate Change Projection & Analysis for Hydrology in Korea'
Ministry of Transportation, Land, and Marine, Korea

7, 2012 - 7, 2014 Associate Dean for Student Affairs, Seoul National University, Korea

1, 2015 - 12, 2015 Visiting Professor, University of Stuttgart, Germany

International Activities

5, 2015 - Present Chair, Water Resources Management Committee, International Association
for Hydro-Environment Engineering and Research (IAHR)

9, 2014	Keynote Speaker, 19th IAHR-APD Congress
1, 2012 - 12, 2014	Associate Editor, Journal of Hydro-Environment Research (JHER)
1, 2012 - 12, 2014	Associate Editor, Journal of Korean Society of Civil Engineering (KSCE)
7, 2011 - Present	Member, Working Group on Climate Change, IAHR
7, 2009 - 5, 2015	Vice-Chair, Water Resources Management Committee, IAHR

Classes Taught

Undergraduate: Hydrology, Statistics for Civil & Environmental Engineers,
Water Resource Engineering,
Climate Change Adaptation for Civil & Environmental Planning.

Graduate: Statistical Hydrology, Water Resources Systems Engineering,
Disaster & Risk Management.

Research Interests

Hydrologic Forecasting, Water Resources Systems Analysis, Climate Change Assessments and Adaptation, Drought & Flood Risk Analysis.

Publications

/International Journals/

1. Kim, Y.-O., and Palmer, R. N. (1997). "Value of seasonal flow forecasts in Bayesian stochastic programming." ***Journal of Water Resources Planning and Management***, vol. 123, no. 6, pp. 327-335.

2. Kim, Y.-O., Jeong, D. I., Kim, H. S., and Lee, K. S. (2001). "Improving water supply outlooks in Korea with ensemble streamflow prediction." ***Water International***, vol. 26, no. 4, pp. 563-568.

3. Jeong, D. I., and Kim, Y.-O. (2005). "Rainfall-runoff models using artificial neural networks for ensemble streamflow prediction." ***Hydrological Processes***, vol. 19, pp. 3819-3835.

4. Kim, Y.-O., Seo, Y., Lee, D.-R., and Yoo, C. (2005). "Potential effect of global warming on a water resources system in Korea." ***Water International***, vol. 30, no. 3, pp. 400-405.

5. Kim, Y.-O., Jeong, D. I., and Ko, I. H. (2006). "Combining rainfall-runoff model outputs for improving ensemble streamflow prediction." ***Journal of Hydrologic Engineering***, vol. 11, no. 6, pp. 578-588.

6. Kang, B. S., Lee, S.-J., Kang, D.-H., and Kim, Y.-O. (2007). "A flood risk projection for Yongdam dam against future climate change." ***Journal of Hydro-environmental Research***, vol. 1, pp. 118-125.

7. Kim, Y.-O., Eum, H.-I., Kim, S. U., and Lee, K. S. (2007). "Monthly joint operations for the Nakdong multi-reservoir system in Korea." ***Water International***, vol. 32, no. 3, pp. 416-427.

8. Kim, Y.-O., Eum, H.-I., Lee, E.-G., and Ko, I. H. (2007). "Optimizing operational policies of a Korean multi-reservoir system using sampling stochastic dynamic programming with ensemble streamflow prediction." ***Journal of Water Resources Planning and Management***,

vol. 131, no. 1, pp. 4-14.

9. Lee, K. S., Chung, E. S., and Kim, Y.-O. (2008). "Integrated watershed management for mitigating streamflow depletion in an urbanized watershed in Korea." ***Physics and Chemistry of the Earth,*** vol. 33, pp. 382-394.

10. Ryu, J. H., Palmer, R. N., Jeong, S., Lee, J. H., and Kim, Y.-O. (2009). "Sustainable water resources management in a conflict resolution framework." ***Journal of the American Water Resources Association***, vol. 45, no. 2, pp. 485-499.

11. Jeong, D. I., and Kim, Y.-O. (2009). "Combining single-value streamflow forecasts - A review and guidelines for selecting techniques." ***Journal of Hydrology***, vol. 377, pp. 284-299.

12. Kim, Y.-O., and Lee, J.-K. (2010). "Addressing heterogeneities in climate change studies for water resources in Korea." ***Current Science,*** vol. 98, no. 8, pp. 1077-1083.

13. Stedinger, J. R. and Kim, Y.-O. (2010). "Probabilities for ensemble forecasts reflecting climate information." ***Journal of Hydrology***, vol. 391, no.1-2, pp. 9-23.

14. Eum, H.-I., Simonovic, S. P., and Kim, Y.-O. (2010). "Climate change impact assessment using K-nearest neighbor weather generator: Case study of the Nakdong River Basin in Korea." ***Journal of Hydrologic Engineering***, vol.15, no. 10, pp. 772-785.

15. Kang, T.-H., Kim, Y.-O., and Hong, I.-P. (2010). "Comparison of pre- and post-processors for ensemble streamflow prediction." ***Atmospheric Science Letters***, vol. 45, no. 2, pp. 153-159.

16. Eum, H.-I., and Kim, Y.-O. (2010). "The value of updating ensemble streamflow prediction in reservoir operations." ***Hydrological Processes***, vol. 24, no. 20, pp. 2888-2899.

17. Jeon, J.-J., Kim, Y.-O., and Kim, Y. (2011). "Expected probability weighted moment estimator for censored flood data." ***Advances in Water Resources***, vol. 34, no. 8, pp. 933-945.

18. Eum, H.-I., Kim, Y.-O., and Palmer, R. N. (2011). "Optimal drought management using sampling stochastic dynamic programming with a hedging rule." ***Journal of Water Resources Planning and Management***, vol. 137, no. 1, pp. 113-122.

19. Kim, Y.-O., Lee, J.-K., and Palmer, R. N. (2012). "A drought outlook study in Korea." ***Hydrological Sciences Journal***, vol. 57, no. 6, pp. 1141-1153.

20. Kim, Y.-O., Seo, S. B., and Jang O.-J. (2012). "Flood risk assessment using regional regression analysis." ***Natural Hazards***, vol. 63, no. 6, pp. 1203-1217.

21 Ahn, K.-H., Kim, Y.-O., and Ahn, S. J. (2012). "Manipulating large scale qualitative meteorological information for drought outlook." ***Monthly Weather Review***, vol. 140, no. 10, pp. 3250-3258.

22. Seo, Y., Ahn, J., and Kim, Y.-O. (2013). "The impact of climate change on the benefit of a rain barrel sharing network." ***Resources, Conservation and Recycling***, vol. 74, pp. 66-74.

23. Seo, Y., Seo, Y.-H., and Kim, Y.-O. (2015). "Behavior of a Fully-Looped Drainage Network and the Corresponding Dendritic Networks." ***Water,*** vol. 7,
pp. 1291-1305.

24. Seo, Y., Park, S. Y., and Kim, Y.-O. (2015). "Potential benefits from sharing rainwater storages depending on characteristics in demand." ***Water,*** vol. 7, pp. 1013-1029.

25. Seo, S. B., Kim, Y.-O., and Kim, C.-R. (2015). "A new way for incorporating GCM information into water shortage projections." ***Water,*** vol. 7, no. 5, pp. 2435-2450.

26. Kim, Y., Kim, Y.-O., Kim, J., Kim, W., and Ohn, I. (2016). "Scaled ridge estimator and its application to multimodel ensemble approaches for climate prediction." ***Journal of the Korean Statistical Society***, vol. 45, pp. 307-313.

27. Lee, J.-K., Kim, Y.-O., and Kim, Y. (2016). "A new uncertainty analysis in the climate change impact assessment." ***International Journal of Climatology***, vol. 37, pp. 3837-3846, DOI: 10.1002/joc.4957.

28. Kim, K.-J., Kim, Y.-O., and Kang, T.-H. (2017). "Application of time-lagged ensemble approach with autoregressive processors to reduce uncertainties in peak discharge and timing." ***Journal of Hydrology: Regional Studies***, vol. 9, pp. 140-148.

29. Ryu, Y. Kim, Y.-O., Seo, S. B., and Seo, I. W. (2017). "Application of real option analysis for planning under climate change uncertainty: a case study for evaluation of flood mitigation plans in korea." ***Mitigation and Adaptation Strategies for Global Change***, vol. 22, DOI: 10.1007/s11027-017-9760-1.

30. Lee, J-K. and Kim, Y.-O. (2017). "Selection of representative GCM scenarios preserving uncertainties." ***Journal of Water and Climate Change***, vol. 9, pp. 1-11.

31. Tegegne, G., Park, D. K., and Kim, Y.-O. (2017). "Comparison of hydrological models for the assessment of water resources in a data-scarce region, the Upper Blue Nile River Basin." ***Journal of Hydrology: Regional Studies***, vol. 14, pp. 49-66.

32. Tegegne, G., Park, D. K., Kim, Y., and Kim, Y.-O. (2017). "Selecting hydrological modelling approaches for water resource assessment in the Yongdam watershed." ***Journal of Hydrology (New Zealand)***, vol. 56, pp. 155-164.

33. Kim, Y., Kim, W., Ohn, I., and Kim, Y.-O. (2017). "Leave-one-out Bayesian model averaging for probabilistic ensemble forecasting." ***Communications for Statistical Applications and Methods***, vol. 24, no. 1, pp. 67-80.

34. Seo, S. B., Kim, Y.-O., Kim, Y., and Eum, H.-I. (2018). "Selecting climate change scenarios for regional hydrologic impact studies based on climate extreme indices." ***Climate Dynamics***, DOI:10.1007/s00382-018-4210-7.

35. Sung, J. H., Kim, Y.-O., and Jeon, J.-J. (2018). "Application of distribution-free nonstationary regional frequency analysis based on L-moments." ***Theoretical and Applied Climatology***, vol. 133, pp. 1219-1233, DOI: 10.1007/s00704-017-2249-8.

36. Tegegne, G., and Kim, Y.-O. (2018). "Modeling ungauged catchments using the catchment runoff response similarity." ***Journal of Hydrology***, vol. 564, pp. 452-466.

37. Seo, S. B., and Kim, Y.-O. (2018). "Impact of spatial aggregation level of climate indicators on a national-level selection for representative climate change scenarios." ***Sustainability***, vol. 10, no. 7, pp. 2409, DOI: 10.3390/su10072409.

38. Park, K., Lee, K. S., and Kim, Y.-O. (2018). "Use of instream structure technique for aquatic habitat formation in ecological stream restoration." ***Sustainability***, vol. 10, no. 11, pp. 4032, DOI:10.3390/su10114032.

39. Seo, S. B., Kim, Y.-O., Kang, S.-U., and Chun, G. I. (2018). "Improvement in long-range streamflow forecasting accuracy using the Bayesian method." ***Hydrology Research***, (in press).

40. Tegegne, G., Kim, Y.-O., Seo, S. B., and Kim, Y. (2018). "Hydrological modelling uncertainty analysis for different flow quantiles: a case study in two hydro-geographically different watersheds." ***Hydrological Sciences Journal***, (in press).

/Book Chapters/

1. Kim, Y.-O., and Chung, E. S. (2017). "Chapter 8. Adaptation to climate change: decision-making." In: Kolokytha et al. (eds), ***Sustainable Water Resources Planning and Management Under Climate Change***, Springer, pp. 189-221.

/International Conferences/

1. Kim, Y.-O., and Palmer, R. N. (1997). "The value of hydrologic information in hydropower system operations." *Proceedings of the 24th Annual Water Resources Planning and Management Conference*, ASCE, Houston, Texas, pp. 532-536.

2. Limaye, A., Kim, Y.-O., Cruise, J. F., Perkey, D. J., Mcneider, R. T., and Boyington, T. M. (1998). "Mesoscale hydrologic modeling of the southern Ohio River basin." *Programs and Abstracts Volume of GCIP Climate Conference*, NASA/NOAA, St Louis, Missouri, pp. 176-176.

3. Kim, Y.-O., and Lee, H. S. (1999). "The influence of El Nino/Southern oscillation on streamflow in Korea." *Proceedings of WEESHE-99 Conference*, *Vol. II: Hydrologic Modeling*, pp. 194-202.

4. Kim, Y.-O., and Lee, H. S. (2000). "Value of ENSO information in reservoir operation in Korea." *ASCE Operation Management,* CD.

5. Kim, Y.-O., Seo, Y., Yoo, C., Lee, D. R., and Kim, S. (2001). "Sensitivity of the Keum River basin to climate change." *XXIX IAHR Congress*, *Theme A*. pp. 265-271.

6. Kim, Y.-O., Jeong, D. I., Kim, H. S., and Lee, K. S. (2001). "Improving water supply outlook in Korea with ensemble streamflow prediction." *Annual Meeting of Japan Society of Hydrology and Water*, JSHW, Yamanashi, Japan.

7. Stedinger, J., and Kim, Y.-O. (2002). "Updating ensemble probabilities based on climate forecasts." *2002 Conference on Water Resources Planning and Management*, ASCE. Roanoke, USA, CD.

8. Kim, Y.-O., Eum, H.-I., Kim, S. U., and Lee, K. S. (2002). "Development of an integrated operation system for the Nak-dong River basin in Korea." *2002 Annual Meeting of Japan*

Society of Hydrology and Water Resources, JSHWR, Sendai, Japan, pp. 270-275.

9. Palmer, R. N., Ryu, J. H., Jeong, S., and Kim, Y.-O. (2002). "An application of water conflict resolution in the Kum River basin." *2002 Conference on Water Resources Planning and Management*, ASCE, Roanoke, USA, CD.

10. Kim, Y.-O., Jeong, D. I., and Yu, S. O. (2003). "Combining deterministic and probabilistic forecasts for ESP." *2003 Annual Meeting of Japan Society of Hydrology and Water Resources*, JSHWR, Japan, CD.

11. Kim, Y.-O., Jeong, D. I., Yu, S. O., and Ko, I. H. (2003). "Combining rainfall-runoff models for ensemble streamflow prediction." *XI World Water Congress*, IWRA, Spain, CD.

12. Kim, Y.-O., Yu, S. O., Jeong, D. I., and Ko, I. H. (2003). "Improving ESP probabilistic forecasts using persistence information." *2003 World Water & Environmental Resources Congress 2003*, ASCE, Philadelphia, USA.

13. Kim, Y.-O., Eum, H.-I., Kim, S. U., and Lee, K. S. (2003). "Sampling stochastic dynamic programming applied to the Nak-dong multi-reservoir system." *2003 2nd International Symposium On Integrated Water Resources Management*, IAHS, South Africa.

14. Rieu, S. Y., Kim, Y.-O., and Lee, D. R. (2003). "Streamflow generation using a multivariate hybrid time series model." *IUGG2003*, IAHS, Japan, 280, pp. 255-259.

15. Kim, Y.-O., and Jeong, D. I. (2004). "Ensemble streamflow prediction using climate forecast information." *ICHWC 2004*, Seoul, Korea.

16. Kim, Y.-O., Eum, H.-I., Lee, E. G., and Ko, I. H. (2004). "Two-stage sampling SDP for a multi-reservoir system in Korea." *Proceeding of workshop on modeling and control for participatory planning and management water system*, IFAC, Venice, Italy.

17. Jeong, D. I., Kim, Y.-O., Kim, N. I., and Ko, I. H. (2004). "An overview of ensemble streamflow prediction studies in Korea." *Proceeding of 2nd Asia Pacific Association of Hydrology and Water Resources Conference*, Singapore.

18. Kim, Y.-O., Lee, J.-K., and Jeong, D. I. (2005). "Using climate information for the extended streamflow prediction in Korea." *XXXI IAHR Congress,* Seoul, Korea.

19. Kim, Y.-O., Lee, J.-K., and Jeong, D. I. (2005). "Use of climate information for improving the extended streamflow prediction." *2005 AOGS 2nd Meeting*, Singapore.

20. Kim, Y.-O., Eum, H.-I., and Ko. I. H. (2005). "Joint operating policies using sampling SDP for the Geum River basin in Korea." *Proceeding of 2005 conference on Water Resources Planning and Management*, ASCE, Anchorage, Alaska, USA.

21. Jeong, D. I., Kim, Y.-O., and Lee, J.-K. (2005). "Ensemble streamflow prediction in Korea: past and future 5 years." *2005 Joint Assembly*, AGU, New Orleans, Louisiana, USA.

22. Kim, Y.-O., and Jeong, D. I. (2006). "Theoretical comparisons between simple and weighted average combining forecasts." *7th International Conference on Hydroinformatics*, Nice, France, pp. 839-846.

23. Kim, Y.-O., Eum, H.-I., and Ko, I.-H. (2006). "Value of updating ensemble streamflow prediction in reservoir operations." *Operations Management 2006*, ASCE, Sacramento, California, USA.

24. Kim, Y.-O., Eum, H.-I., Jeong, D. I., Kang, D.-H., Cha, D.-H., and Lee, D.-K. (2006). "Vulnerability and adaptation to climate change in the Geum river basin, Korea." *3rd International Symposium on Integrated Water Resources Management,* Bochum, Germany.

25. Jeong, D. I., Stedinger, J. R., Kim, Y.-O., and Sung, J. H. (2007). "Bayesian GLS for regionalization of flood characteristics in Korea." Paper 40927-2736, *World Environmental & Water Resources Conference - Restoring our Natural Habitat*, K.C. Kabbes editor, Tampa, Florida, USA.

26. Stedinger, J. R., and Kim, Y.-O. (2007). "Adjusting ensemble forecast probabilities to reflect several climate forecasts." *Qunatification and Reduction of Predictive Uncertainty for Sustainable Water Resources Management*, IAHS, Perugia, Italy, pp. 188-194.

27. Kim, Y.-O., Lee, J.-K., Lee, S.-J., and Choi, S. A. (2008). "Improving calculation of probable maximum flood in Korea." *World Environmental and Water Resources Congress 2008*, ASCE/EWRI, Honolulu, Hawaii, USA.

28. Kim, Y.-O., and Lee, J.-K. (2008). "Multi-model ensemble weighting schemes for climate change assessment." *AOGS 2008*, AOGS, Busan, Korea.

29. Kim, Y.-O., and Sung, J. H. (2008). "Deriving an expected momentrs algorithm for the GEV distribution." *AOGS 2008,* AOGS, Busan, Korea.

30. Kim, Y.-O., Lee, J.-K., and Palmer, R. N. (2008). "A drought outlook study in Korea." *AOGS 2008*, AOGS, Busan, Korea.

31. Kim, Y.-O., and Lee, J.-K. (2008). "Dealing with heterogeneous scenarios for global warming assessments." *International Symposium on Lowland Technology 2008*, Busan, Korea.

32. Jang, O.-J., Lee, M.-K., Kim, Y.-O., and Lee, K.-T. (2009). "Building multi-risk maps in urban areas." *8th IAHS Scientific Assembly & 37th IAH Congress*, Hyderabad, India.

33. Mujumdar, P. P., Dandy, G., Kim, Y.-O., Kojiri, T., Kolokytha, E., Shen, D., Simonovic, S. P., and Van de Geisen, N. (2009). "Implications of climate change for water resources management - case studies." *33rd IAHR Biennial Congress: Water Engineering for a Sustainable Environment*, Vancouver, British Columbia, Canada.

34. Kim, Y.-O., Ahan, K.-H., and Song, D. H. (2010). "Proposing an improved parameter estimator for censored flood data." *10th International Symposium on Stochastic Hydraulics and 5th International Conference on Water Resources and Environment Research,* Quebec, Canada.

35. Eum, H.-I., Kim, Y.-O., and Palmer, R. N. (2009). "Estimating the future carryover storage value for a hedging rule." *World Environmental & Water Resources Congress 2009*, Bankok, Thailand.

36. Ahan, K.-H., Song, D.-H., and Kim, Y.-O. (2010). "Assessment of dam operations for a severe drought in Korea." *World Environmental & Water Resources Congress 2010*, Providence,

Rhode, Island.

37. Jeon, J.-J., Kim, Y.-O., and Kim, Y.-D. (2010). "Expected probability weighted moment estimator for censored flood data." *10th International Symposium on Stochastic Hydraulics and 5th International Conference on Water Resources and Environment Research*, Quebec, Canada.

38. Lee, K.-T., and Kim, Y.-O. (2010). "A study on selecting and combining climate change scenarios." *The 9th International Conference on Hydroinformatics*, Tianjin, China.

39. Kim, K. J., Kim, Y.-O., and Kang, T.-H. (2011). " Applying short-range ensemble streamflow forecasting to Korea." *International Union of Geodesy and Geophysics General Assembly 2011*, Melbourne, Australia.

40. Seo, S.-B., Lee, J.-K., and Kim, Y.-O. (2011). "Projecting water balance for the river basin considering climate change uncertainty." *World Environmental & Water Resources Congress 2011*, California, USA.

41. Park, J.-H., and Kim, Y.-O. (2011). "Developing a future operation alternative to mitigate impact of climate change on water quality." *AGU Fall Meeting 2011*, California, USA.

42. Kang, T.-H., Lee, K.-T., and Kim, Y.-O. (2012). "Characteristics of short-range probabilistic flood prediction in Korea." *European Geosciences Union General Assembly 2012*, Vienna, Austria.

43. Kim, C.-R., Kim, Y.-O., Seo, S. B., and Lee, J.-K. (2012). "Water balance projection reflecting climate change information." *18th Congress of the Asia and Pacific Division of the International Association for Hydro-Environment Engineering and Research*, Je-Ju, Korea.

44. Kim, Y.-O., Seo, Y.-H., and Park, D. K. (2014). "Effects of cross-correlation between ensemeble members on forcasting accuracy." *European Geosciences Union General Assembly 2014*, Vienna, Austria.

45. Ranzi, R., Nalder, G., Abdalla, A.A., Ball, J., De Costa, G.S., Galvão, C., Jia, Y., Kolokytha, E., Kim, Y.-O., Lee, S.I., Nakakita, E., Nguyen, V.T.V., Paquier, A., Patel, P.L., Peviani, M.A., and Teegavarapu, R. (2015). "Summary of recommendations for policymakers on adaption to climate change in water engineering." *Hydrolink*, ISSN: 1388-3445, IAHR, Madrid.

46. Tegegne, G., and Kim, Y.-O. (2015). "Surface water potential assessment of ungauged catchments in Lake Tana basin, Ethiopia." *10th Alexander von Humboldt Conference 2015,* Ethiopia.

47. Kim, Y.-O., Park, D. K., and Tegegne, G. (2015). "Open source library for integrated model for climate change impact and vulnerability assessment – SNU-CAHL." *Open Water symposium and workshops,* Addis Ababa, Ethiopia.

48. Kim, Y.-O., Kang, D.-H., and Park, J. H. (2015). "Re-evaluation of comprehensive flood mangement plan in Yeong San river basin using robust decision making." *E-proceedings of the 36th IAHR World Congress*, Hague, the Netherlands.

49. Kim, Y.-O., Shin, M.-J., and Tegegne, G. (2015). "Regionalization of watersheds for

regional flood frequency analysis in Lake Tana basin, Ethiopia." *26th International Union of Geodesy and Geophysics General Assembly 2015* , Praha, Czech.

50. Kim, Y.-O., and Tegegne, G. (2015). "Comparison of conceptual and distributed rainfall-runoff models for climate change impact assessment." *26th International Union of Geodesy and Geophysics General Assembly 2015* , Praha, Czech.

51. Kim, Y.-O., Shin, M.-J., and Park, D. K. (2015). "An open source software tool for hydrologic climate change assessment (link)." *European Geosciences Union General Assembly 2015*, Vienna, Austria.

52. Kim, Y.-O., Tegegne, G., and Park, D. K. (2016). "Development of an R-library SNU-CAHL for facilitating climate change hydrologic assessment studies." *World Environmental & Water Resources Congress 2016,* West Palm Beach, Florida, USA.

53. Kim, Y.-O., Tegegne, G., Park, D. K., and Kim, Y. (2016). "Comparison of hydrological models for assessment of climate change impact on water resources of the Lake Tana basin, Ethiopia." *The 7th International Conference on Water Resources and Environmental Research 2016,* Kyoto, Japan.

54. Kim, Y.-O., Yoon, H. N., and Ihm, S. H. (2016). "Revisit to real option analysis approach for water resources planning under climate change." *12th International Conference on Hydroinformatics 2016,* Incheon, Korea.

55. Kim, Y.-O., Choi, S. H., and Lee, J.-K. (2016). "Selecting representative GCMs to preserve uncertainties." *56th New Zealand Hydrological Society & 37th Australian Hydrology and Water Resources Symposium*, Queenstown, New Zealand.

56. Tegegne, G., Park, D. K., Kim Y., and Kim, Y.-O. (2016). "Performance of multiple hydrologic models under climate change in the Yongdam catchment, South Korea." *2016 American Geophysical Union Fall Meeting*, San Francisco, USA.

57. Tegegne, G., Park, D. K., Kim, Y., and Kim, Y.-O. (2016). "On the need to improve the Uncertainty of River Flow Projections in the Yongdam Watershed, South Korea." *2016 American Geophysical Union Fall Meeting*, San Francisco, USA.

58. Kim, Y.-O. (2017). "Development of integrated model for climate change impact and vulnerability assessment." *2017 Impressions 4th General Assembly Meeting*, Budapest, Hungary.

59. Kim, Y., Park, D. K., and Kim, Y.-O. (2017). "Climate change impact assessment in South Korea using the simple conceptual model, GR4J." *World Environmental & Water Resources Congress 2017*, Sacramento, USA.

60. Yoon, H. N., Kim, Y.-O., Ihm, S. H., and Choi, S. H. (2017). "Incorporation of robust concept into reservoir operations under climate change." *World Environmental & Water Resources Congress 2017*, Sacramento, USA.

61. Kim, Y.-O., Ihm, S. H., Choi, S. H., Seo, S. B., Yoon, J., Yoon, Y., and Kim, B. (2017). "Adaptive drought mitigation plan under climate change for Chungnam province in Korea."

Water and Society 2017, Seville, Spain.

62. Ihm, S. H., Seo, S. B., and Kim, Y.-O. (2018). "Re-evaluation of Boryeong Dam conduit project's economic feasibility with real options analysis." *AOGS 15th Annual Meeting*, Honolulu, Hawaii.

63. Seo, S. B., Kim, Y.-O., Kim, Y., and Kim, S. J. (2018). "Improvement of drought outlook using a Bayesian inference approach." *HEPEX 2018*, Melbourne, Australia.

64. Kim, Y.-O., and Yoon, H. N. (2018). "A theoretical study on adjustment of reservoir operating rules using ensemble streamflow forecasts." *HEPEX 2018*, Melbourne, Australia.