

OLIVER CRISTIAN SAAVEDRA VALERIANO

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PROFESSIONAL OVERVIEW

- From 2022 Dean of the faculty of engineering and architecture, UPB
- From 2015 Director of civil and environmental research center, UPB
- 6 years' experience as Associate Professor (lecturing, researching in water resources and international project coordinator in Asia and Africa regions).
- 2 years' experience as Adjunct Professor, Egypt-Japan University of Science and Technology. Working experience in Egypt: education, research and projects in water resources management.
- 3 years' experience as Researcher (hydrological modeling development, optimal dam operation, GIS applications and integrated water resources management

ACADEMIC QUALIFICATIONS

Dr. Eng. in Civil Engineering, 2007, University of Tokyo, Japan

M. Sc. in Groundwater, 2002, Eberhard Karl University of Tübingen, Germany

B.Sc. in Civil Engineering, 1998, Bolivian Private University, Bolivia

ACADEMIC EXPERIENCE

Dean

Mar. 2022 to present

Leading nine undergraduate programs in engineering and one in architecture, UNIVERSIDAD PRIVADA BOLIVIANA. Encouraging academic quality in teaching-learning processes. Enhance the quality of final research work of undergraduate students. Achieving certification of quality assurance at regional level with ArcSur. Develop domestic and international collaboration with public and private universities. Moreover, it is promoting STEM activities with local high schools.

Director

Nov. 2015 to present

Leading the research center of civil and environmental engineering, UNIVERSIDAD PRIVADA BOLIVIANA. Promoting research in this institution and specifically in areas related to civil and environmental engineering. Develop domestic and international collaboration. Teaching and researching in applied hydrology, hydrological modeling, and water resources management. <http://www.upb.edu/es/ciica>

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Associate Professor

Jan. 2010 to Sept. 2015

Department of Civil and environmental Engineering, Tokyo institute of technology, Japan. Teaching lectures related to GIS for Hydrology and Water Resources Management. Supervision of undergraduate and graduate students. Research interests but not limited to hydrological processes, structural and non-structural flood management, sediment transport, decision support systems, remote sensing applications in hydrology, international cooperation, trans-boundary issues.

Adjunct Professor

Jan. 2010 to July 2015

Environmental Engineering Department, Egypt-Japan University of Science And Technology, New Borg-El Arab, Egypt. Teaching lectures related to applied hydrology, GIS and remote sensing for hydrology, Groundwater management, Water Resources Management. Transfer of research experience in Japan to come-up with a hybrid system. Co-supervision of Egyptian graduate students about water, land and agriculture issues in Egypt such as sustainability of Nile delta. Research interests in Egypt but not limited to semi-arid, hydrology, sediment transport, re-use of agriculture water, proper allocation of water, effects of climate change, efficient water management at National, basin and community levels.

Researcher

April 2007 to Dec 2009

Department of Civil Engineering, UNIVERSITY OF TOKYO, Japan. Fields of research in applied hydrology and water resources management. Instructing seminars in *hydrological modeling* and applications at graduate and undergraduate students. Developing tools and material to set-up and usage of models/algorithms. Co-supervision of undergraduate and graduate research, contribution to the Asian Water Cycle Initiative (AWCI), and cooperation with 18 countries in Asia under GEOSS to overcome water related issues

Civil Engineering Consultant

2002-2003

Freelance-consultant, Cochabamba, Bolivia. Coordinator of projects in water supply and sanitation for rural communities including sewage and irrigation systems. It was paid special attention to the sustainability from the systems in future in-charged by locals. Both socio-economic and environmental assessments were added to technical feasible options.

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Lecturer

2nd semester 1998 – 1st semester 1999

Department of Civil Engineering, BOLIVIAN PRIVATE UNIVERSITY, Bolivia
Teaching the undergraduate course *Environmental Impact Assessment* where the curricula was developed as an elective subject. Supervision of professional practices of undergraduate students.

Hydraulic Engineer

Nov 1998 – April 2000

HIDROTEC LTDA. Cochabamba, Bolivia.

Director of the hydraulic installations in water supply systems at special buildings. It was accomplished construction projects on schedule with optimization of both human and supply resources. The quality of installation was checked with hydraulic tests and following ASTM standards. Tests were supervised by external consulting company.

INTERNATIONAL ACADEMIC EXCHANGE

Intercampus Doctoral Fellowship

Winter 2004

Department of Hydraulic Engineering, Tsinghua University, China.

Intercampus Bachelor Fellowship (Beca Intercampus)

Spring 1998

International Cooperation Agency of Spain

Department of Civil Engineering, Universidad Politécnica de Madrid, Spain.

LANGUAGES

Spanish (mother tongue)

Fluent in English (speak, read and write)

Communicative level in Japanese, German and Arabic.

RESEARCH GRANTS

“Implementation of Biotechnology in water re-use plant in Tolata”. **Project Coordinator.** Funded by Spanish Development Agency (AECID), Water Sanitation Program, 49,700 Bs. (approx. 7,000 \$US). Period: 2019.01- 2019.03, Bolivia.

“Integrated Water Resources and Environmental Management for Asian and African Megadelta under Climate Change Effects”. **Project Coordinator.** Funded by Japan Society for the

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Promotion of Science (JSPS), Core-to-Core Program, Asia-Africa Science Platforms
6,800,000 Japanese Yen (approx. 68,000 \$US)/year. Period: 2013.04- 2016.03, Japan.

“Application of satellite based precipitation in Asian-African regions for flood risk assessment”. **Principal Investigator**. Funded by Japan Aerospace exploration Agency (JAXA), Precipitation Measuring Mission (PMM), 7th Research Announcement.

2,179,00 Japanese Yen (approx. 30,000 \$US)/year. Period: 2013.04- 2016.03, Japan.

Project title: “Suitable location of new Sanitary Landfill Site for the Municipality of Cochabamba”. **Independent researcher**. Funded by “Liga de Defensa del Medio Ambiente (LIDEMA)”, in English Environmental Protection League (2,000 \$US). Period: 1997.08 – 1998.07, Bolivia

SCHOLARSHIPS

Monbusho Doctoral Scholarship 2004/04 - 2007/03
Ministry of Education of Japan, embassy’s recommendation
Department of Civil Engineering, University of Tokyo

DAAD Graduate Scholarship 2000-2001
German Foreign Exchange Program for Master studies
Faculty of Geosciences, Eberhard Karl University of Tübingen, Germany

INTERCAMPUS Scholarship 1998/03-05
Undergraduate exchange between Spain and Latin America
Ingeniería de Caminos, Canales y Puertos, Universidad Politécnica de Madrid, Spain

PROFESSIONAL MEMBERSHIPS

- ✓ Japan Society of Civil Engineers, JSCE
- ✓ Japan Society of Hydrology and Water Resources, JHWR
- ✓ Bolivian Society Engineers, SIB
- ✓ Bolivian Society Civil Engineers, CIC
- ✓ American Geophysical Union, AGU

RESEARCH STATISTICS

Publications +120

Reads	81,361
Citations	1,173
h-index	18

https://www.researchgate.net/profile/Oliver_Saavedra/

<https://scholar.google.com/citations?hl=en&user=fySNivQAAAAJ>

PEER-REVIEWED JOURNAL PAPERS AND BOOK CHAPTERS PUBLICATIONS

1. Perales, M., F. Soria & O. Saavedra (2024): Multitemporal and spatial analysis of sediment deposited in the San Jacinto reservoir | Análisis multitemporal y espacial del sedimento depositado en el embalse San Jacinto, *Tecnología y Ciencias del Agua*, vol. 15(5), pp. 422–451.
2. Echeverría, I. R. Escalera, O. Saavedra, G. Aliaga & R. Montoya (2024): Integrated assessment of decentralized wastewater treatment plants in a semi-arid region in Bolivia, *Water Practice and Technology*, vol. 19(8), pp. 3125–3141
3. Ureña J., O. Saavedra (2024): Assessment of a downscaling using quantiles mapping with miroc model in Guadalquivir basin, Bolivia, *Revista Geográfica de Chile Terra Australis*, 2024, 60(1), pp. 133–143
4. Tomas, Samuel, O. Saavedra, I. Espinoza (2023): Predicción del ciclo solar 25 mediante modelos ARIMA y redes neuronales LSTM, *Revista de la Academia colombiana de ciencias exactas, físicas y naturales*, Vol. 47 (183) pags 400-411, DOI: 10.18257/issn.0370-3908
5. Saavedra, O. & Jhonatan Ureña (2022). Generation of Combined Daily Satellite-Based Precipitation Products over Bolivia. *Remote Sensing*. 14. 4195. 10.3390/rs14174195.
6. Acha, Nicolas, O. Saavedra & J. Ureña (2022). Modelación hidrológica en la cuenca del río rocha incorporando lineamientos de caudal ecológico, *Investigación & Desarrollo*, Vol. 22, No. 1. DOI: 10.23881/idupbo.022.1-5i
7. Echeverría I., O. Saavedra, R. Escalera, G. Heredia, C. Yoshimura & R. Montoya (2022): Small scale operation of an integrated Anaerobic Baffled Reactor and Biofilter: Factors Affecting its Performance, *ASCE's Journal of Environmental Engineering*, Vol 48, No 11. DOI: 10.1061/(ASCE)EE.1943-7870.0002047
8. Ureña J., O. Saavedra & T. Kubota (2021): The Development of a Combined Satellite-Based Precipitation Dataset across Bolivia from 2000 to 2015, *Remote Sensing*, 13, 2 931. <https://doi.org/10.3390/rs13152931>
9. Echeverría I., C. Escalante, O. Saavedra, R. Escalera, G. Heredia & R. Montoya (2021):

- Evaluación de una planta de tratamiento de aguas residuales municipales basada en lagunas de estabilización acopladas a un reactor anaerobio compartimentado, *Investigación & Desarrollo*, Vol. 21, No. 1: pp 37-45 ISSN 2518-4431. DOI: 10.23881/idupbo.021.1-3i
10. Echeverría I., O. Saavedra, R. Escalera, G. Heredia & R. Montoya (2020): Diseño, construcción y evaluación de un sistema de Contactador Biológico Rotatorio (CBR) para el tratamiento de aguas residuales municipales a escala piloto, *Investigación & Desarrollo*, Vol. 20, No. 1: pp 23-31
ISSN 2518-4431.
 11. Rosales L., O. Saavedra & W. Soruco (2020): Modelación hidrogeológica en un abanico aluvial de Cochabamba-Bolivia, *Investigación & Desarrollo*, Vol. 20, No. 1: pp 51-66.
ISSN 2518-4431
 12. Ureña J., O. Saavedra, & M. Perales (2020): Estimación de sedimentos en la cuenca Pilcomayo usando un producto de precipitación combinado con sensores abordo de satélites, *Investigación & Desarrollo*, Vol. 20, No. 1: pp. 51-64. ISSN 2518-4431
 13. Saavedra T., L. Rosales & O. Saavedra (2020): Groundwater modeling in the cochabamba valley using MODFLOW, *Investigación & Desarrollo*, Vol. 20, No. 1: pp. 65-72. ISSN 2518-4431
 14. Ureña J. & O. Saavedra (2020): Evaluation of satellite based precipitation products at key basins in Bolivia, *Asia-Pacific Journal of Atmospheric Sciences*, DOI 10.1007/s13143-020-00184-4
 15. Heredia G, B. Orellana, O. Saavedra, I. Echeverría (2019): Evaluación del costo anual equivalente de las plantas de tratamiento de aguas residuales de los municipios de Cliza y Tolata, *Investigación & Desarrollo*, Vol. 19, (2): pp. 75-82
 16. Saavedra O., R. Escalera, G. Heredia, R. Montoya, I. Echeverría, A. Villarroel, L. Brito (2019): Evaluation of a domestic wastewater treatment plant at an intermediate city in Cochabamba, Bolivia, *Water Practice and Technology*, Vol. 14 (4), pp. 908-920, <https://doi.org/10.2166/wpt.2019.071>
 17. Shuangshuang L., S. Heng, S. Siev, C. Yoshimura, O. Saavedra & S. Ly (2019): Multivariate interpolation and information entropy for optimizing raingauge network in the Mekong River Basin, *Hydrological Sciences Journal*, Vol. 64 (12), pp. 1439-1452
DOI: 10.1080/02626667.2019.1646426
 18. Echeverría I., L. Machicado, O. Saavedra, R. Escalera, G. Heredia & R. Montoya (2019): Aguas residuales domésticas tratadas con reactores anaeróbicos y filtros de grava como recurso para ser usadas en agricultura, *Investigación & Desarrollo*, Vol. 19, (1): pp. 63 – 72
 19. Okada S., R. Khanal, C. Yoshimura, O. Saavedra, M. Ryo (2019): Monitoring land cover change of a river-floodplain system using high resolution satellite images, *Landscape and Ecological Engineering*, Vol. 15(1), pp 63–74

20. Galal Eltarabily M., A M. Negm, C. Yoshimura, S. Abdel-Fattah, O. C. Saavedra (2018): Quality assessment of southeast Nile delta groundwater for irrigation, *Water Resources* 45, 975–991. <https://doi.org/10.1134/S0097807818060118>
21. Hossen H., M. G. Ibrahim, W. Mahmood, A. Negm, K. Nadaoka, O. Saavedra (2018): Forecasting future changes in manzala lake surface area by considering variations in land use and land cover using remote sensing approach, *Arabian Journal of Geosciences*, 11: 93, DOI:10.1007/s12517-018-3416-7
22. Ureña J., A. Vallejos, O. C. Saavedra, A. C. Escalera (2018): Evaluación de la precipitación distribuida en la cuenca Katari basado en tecnología satelital y productos derivados, *Investigación & Desarrollo*, Vol. 18, No. 1: 35 – 51, DOI: 10.23881/idupbo.018.1-3i
23. Angulo M. & O. Saavedra (2018): Modelación hidrológica de la cuenca Maylanco utilizando HEC-HMS, *Investigación & Desarrollo*, Vol. 18, No. 1: 53 – 67, DOI: 10.23881/idupbo.018.1-4i
24. Mohamed H., A. Negm, M. Zahran, O. C. Saavedra (2018): Assessment of ensemble classifiers using bagging technique for improved land cover classification of multispectral satellite images. *International Arab Journal of Information Technology* (Accepted)
25. Suif Z, C. Yoshimura, O. C. Saavedra Valeriano, N. Ahmad, S. Hul (2017): Suspended Sediment Dynamics Changes In Mekong River Basin: Possible Impacts Of Dams And Climate Change. *International Journal of GEOMATE* 12(34):140-145, DOI: 10.21660/2017.34.2688
26. Gandarillas V., O. Saavedra, R. Escalera, R. Montoya (2017):
Revisión de las experiencias en el tratamiento de aguas residuales domésticas mediante reactores UASB en Cochabamba- Bolivia comparadas con las de Latinoamérica, India Y Europa
Experiences review in domestic wastewater treatment through UASB reactors in Cochabamba-Bolivia compared to Latinamerica, India and Europe
Investigación & Desarrollo, No. 17, Vol. 1, pág. 83 – 98, 2017.
27. Negm, A., O. C. Saavedra, A. El-Adawy (2016): Nile Delta Biography: Challenges and Opportunities, **book chapter** in “The Handbook of Environmental Chemistry” ISSN: 1867-979X, **Publisher Springer** Berlin Heidelberg, DOI 10.1007/698_2016_62. http://link.springer.com/chapter/10.1007%2F698_2016_62
28. Shibuo Y., E. Ikoma, O. Saavedra, L. Wang, P. Lawford, M. Kitsuregawa, T. Koike (2016): Implementation of real-time flood prediction and its application to dam operations by data integration analysis system. *Journal of Disaster Research* Vol. 11 No. 6: 1-10.
29. Galal M. A. Eltarabily, A. Negm, C. Yoshimura, O. C. Saavedra Valeriano, Sommer Abdel-Fattahd (2017): Quality Assessment of Southeast Nile Delta Groundwater for Irrigation. (accepted for publication in "Water Resources" journal in Springer.

30. Galal M. A. Eltarabily, A. Negm, C. Yoshimura, O. C. Saavedra Valeriano (2016): Modeling the impact of nitrate fertilizers on groundwater quality in the southern part of the Nile Delta, Egypt, *Water Science and Technology: Water Supply*, IWA publisher, doi: 10.2166/ws.2016.162
31. Vallejos A, S. Ancalle, C. Escalera, O. Saavedra (2016): Analyzing Areal Precipitation at Key Basins in Cochabamba using Satellite-Based Precipitation. *Investigación & Desarrollo*, Revista técnica de la Universidad Privada Boliviana No. 16, Vol. 1: 25 – 38, 2016, ISSN 2518-4431
32. Armanuos AM, A. Negm, C. Yoshimura, O. C. Saavedra Valeriano (2016): Application of WetSpas model to estimate groundwater recharge variability in the Nile Delta aquifer. *Arabian Journal of Geosciences* 07/2016; 9(10). DOI:10.1007/s12517-016-2580-x
33. Suif Z, A. Fleifle, C. Yoshimura, O. C. Saavedra Valeriano(2016): Spatio-temporal patterns of soil erosion and suspended sediment dynamics in the Mekong River Basin *Science of the Total Environment* Volume 568, pp 933-945. doi:10.1016/j.scitotenv.2015.12.134
34. Toan T. Q., Thang T. D., Hung L. M. and O. Saavedra (2016): Impact of upstream development scenarios on flow regimes, environmental quality, and socio-economic development in the Mekong delta of Vietnam. *International Water Technology Journal* 6(2): 119-129.
35. Armanuos AM, A Negm A, C. Yoshimura, O. C. Saavedra Valeriano (2016): Estimation of bed and bank levels of an irrigation canal network towards accurate groundwater modeling of the Nile delta aquifer. *International Water Technology Journal* 6(1): 74-83.
36. Mohamed H., A. Negm, M. Zahran, O. C. Saavedra Valeriano (2016): Bathymetry Determination from High Resolution Satellite Imagery Using Ensemble Learning Algorithms in Shallow Lakes: Case Study El-Burullus Lake. *International Journal of Environmental Science and Development*, 7 (4), 295-301.
37. Takido K., O. C. Saavedra Valeriano, M. Ryo, K. Tanuma, T. Ushio, and T. Kubota (2016): Spatiotemporal evaluation of the gauge adjusted Global Satellite Mapping of Precipitation at the basin scale, *Journal of the Meteorological Society of Japan*, 94(2), doi:10.2151/jmsj.2016-010.
38. Mohamed H., A. Negm, M. Zahran, and Oliver C. Saavedra Valeriano (2015): Assessment of Artificial Neural Network For Bathymetry Estimation Using High Resolution Satellite Imagery In Shallow Lakes: Case Study El Burullus Lake, *International Water Technology Journal*, 5(4), 248-259.
39. Galal M. A. Eltarabily, A. Negm, O. C. Saavedra Valeriano, K. E. Gafar (2015): Effects of di-ammonium phosphate on hydraulic, compaction, and shear strength characteristic of sand and clay soils, *Arabian Journal of Geosciences*, DOI 10.1007/s12517-015-1959-4

40. Negm A, A. Masria, M. Iskander, O. C. Saavedra Valeriano (2015): Towards a Sustainable Stability of Coastal Zone at Rosetta Promontory/Mouth, Egypt. *Oceanography* 3:132. doi: 10.4172/2332-2632.1000132
41. Masria A. K. Nadaoka, A. M. Negm, M. Iskander, and O. C. Saavedra Valeriano (2015): Numerical Modeling of Coastal Nourishment at Rosetta Outlet, Egypt, *International Water Technology Journal*, 4(3), 190-207.
42. Ryo M., Y. Iwasaki, C. Yoshimura and O. C. Saavedra Valeriano (2015): Evaluation of Spatial Pattern of Altered Flow Regimes on a River Network Using a Distributed Hydrological Model, *PLOS ONE*, 10(7): e0133833. doi:10.1371/journal.pone.0133833
43. Sakazume, R., M. Ryo and, O. C. Saavedra Valeriano (2015): Consideration of antecedent soil Moisture for predicting flood Characteristics, *Journal of Japan Society of Civil Engineers*, Ser. B1 (Hydraulic Engineering), 71 (4), I_97-I_102.
44. Saavedra Valeriano, O.C., C. Yoshimura, A. Negm, M. Ateia et al (2015): A platform for integrated water resources management for mega deltas under climate change -JSPS mega delta project-18th International Water Technology Conference (IWTC), Sharm ElSheikh, 12-14 March 2015, 8 pages.
45. Fleifle, A., O. C. Saavedra Valeriano, C. Yoshimura, M. Elzeir and A. Tawfik (2014): Optimization of integrated water quality management for agricultural efficiency and environmental conservation, *Environmental Science Pollution Research*, DOI 10.1007/s11356-014-2712-3
46. Saavedra Valeriano, O. C., M. Ryo and K. Tanuma (2014): Ground validation of satellite-based precipitation measurement for flood simulation in South-East Asian River basins, *International Water Technology Journal*, 4(3), 167-172.
47. Ryo, M., C. Yoshimura, O. C. Saavedra Valeriano and P. Sui (2014): Longitudinal Trends of Flow Regimes Altered by Dams in the Lowland Section of Sagami River, *Journal of Japan Society of Civil Engineers*, Ser. B1 (Hydraulic Engineering), 70 (4), I_31-I_36.
48. Masria, A., A. Negm, M. Iskander, and O. Saavedra Valeriano (2014): Coastal zone issues: a case study (Egypt). *Procedia Engineering*, 70, 1102-1111.
49. Suif Z., C. Yoshimura, O. C. Saavedra Valeriano, and S. Hul (2014) Spatial And Seasonal Variation Of Suspended Sediment Load In The Mekong River Basin, *Journal of Japan Society of Civil Engineers*, Ser. B1 (Hydraulic Engineering), 70 (4): I_7-I_12.
50. Masria, A., A. Negm, M. Iskander, and O. Saavedra Valeriano (2014): Hydrodynamic modeling of outlet stability case study Rosetta promontory in Nile Delta. *Water Science*, 27(54), 39-47.
51. Ryo M., O. Saavedra Valeriano, S. Kanae, and N. D. Tinh (2014): Temporal downscaling of daily gauged precipitation by application of a satellite product for flood simulation in a poorly gauged basin and its evaluation with multiple regression analysis, *Journal of Hydrometeorology*, 15(2), 563-580.

52. Masria, A. A., Negm, A. M., Iskander, and O. Saavedra Valeriano (2014): Numerical investigation of the impact of jetties on accretion problem at Rosetta promontory, Egypt. *International Journal of Environmental Science and Development*, Vol. 5, No. 6.
53. El-Adawy, A., A. M. Negm, M. O. Saavedra Valeriano, and K. Nadaoka (2014): Coupled hydrodynamic-water quality model for pollution control scenarios in El-Burullus lake (Nile Delta, Egypt), *American Journal of Environmental Sciences*, vol. 10 (6): 549-568, DOI: 10.3844/ajessp.2014.549.568
54. Masria A. A. M. Negm, M. Iskander, and O. C. Saavedra Valeriano (2014): Numerical Modeling of Rosetta River Mouth, Egypt, *International Water Technology Journal*, 4(3), 190-207.
55. Wang L., T. Koike; M. Ikeda, C. T. Nyunt, D. N. Tinh, O. Saavedra Valeriano, T. V. Sap, L. C. Nguyen, K. Tamagawa, T. Ohta, (2014): Optimizing multi-dam releases in large river basins by combining distributed hydrological inflow predictions with rolling horizon decision making, *Journal of Water Resources Planning and Management*, ASCE, 140(10), 05014006, pp.14.
56. Shibuo Y., E. Ikoma, O. C. Saavedra Valeriano, L. Wang, P. Koudelova, M. Kitsuregawa, and T. Koike (2014): Development of Operational Realtime Ensemble Flood Forecast System, *Journal of Japan Society of Civil Engineers*, Ser. B1 (Hydraulic Engineering), 70, No. 4, I_397-I_402 (in Japanese) https://doi.org/10.2208/jscejhe.70.I_397
57. El-Adawy, A., A. M. Negm, M. A. Elzeir, O. C. Saavedra, I. A. El-Shinnawy, and K. Nadaoka (2013): Modeling the Hydrodynamics and Salinity of El-Burullus Lake (Nile Delta, Northern Egypt)," *Journal of Clean Energy Technologies*, vol. 1 (2), pp. 157-163.
58. Suif Z., C. Yoshimura, O. C. Saavedra Valeriano, and S. Hul (2013): Spatially Distributed Model For Soil Erosion And Sediment Transport In The Mekong River Basin, *International Water Technology Journal*, 3(4) ,208-216.
59. Sui, P., A. Iwasaki, O. C. Saavedra Valeriano, C. Yoshimura (2013): Modelling basin-scale distribution of fish occurrence probability for assessment of flow and habitat conditions in rivers, *Hydrological Sciences Journal*, 59, 3-4, 618-628.
60. El-Adawy, A., A. M. Negm, O. C. Saavedra Valeriano, and I. A. El-Shinnawy (2013): Assessment of Climate Change impacts on El-Burullus Lake, Egypt based on hydrodynamic modeling, *International Water Technology Journal*, 3(4), 207-216
61. Fleifle, A., A. Tawfik, O. C. Saavedra Valeriano, C. Yoshimura, M. Elzeir (2013): Assessment the performance of down-flow hanging sponge system for treatment of agricultural drainage water, *Desalination and Water Treatment*, DOI:10.1080/19443994.2013.822179.
62. Tanuma, T., O.C. Saavedra Valeriano, M. Ryo (2013), Evaluation of satellite based precipitation and its usage for flood forecast at basin scale, *Asean Journal of Engineering*, Part C 2(2): 78-87.

63. Fleifle, A., C. Yoshimura, O. C. Saavedra Valeriano, A. Tawfik, and Z. Suif (2013): Applicability of satellite image for monitoring concentration of suspended sediment along the Mekong River, *Journal of Vietnam academy of science and technology*.
64. Fleifle, A., A. Tawfik, O. C. Saavedra Valeriano, C. Yoshimura, M. Elzeir (2013): Modeling and profile analysis of a down-flow hanging sponge system treating agricultural drainage water, *Separation and Purification Technology*, 116, 87–94.
65. Fleifle, A., A. Tawfik, O. Saavedra Valeriano, M. Elzeir (2013): Treatment of agricultural drainage water via down flow hanging sponge system for reuse in agriculture, *Water Science and Technology: water supply* **13**, 2, 403-412.
66. Tawfik, A, E. Fleifle, Oliver C. Saavedra V., M. Elzeir (2013): Assessment the performance of down-flow hanging sponge system for treatment of agricultural drainage water. *Desalination and water treatment* 07/2013; 52(34-36). DOI:10.1080/19443994.2013.822179
67. Tanuma, K., O.C. Saavedra Valeriano, M. Ryo, Liengcharernsit W, Kinouchi T. (2013) Flood management using a distributed hydrological model with satellite based precipitation at Chao Phraya river basin, *Journal of Japan Society of Civil Engineers (Hydraulic Engineering)*, 69, No. 4, I_49-I_54.
68. Tawfik, A, E. Fleifle, Oliver C. Saavedra V., H. M. Nagy, F. A. Elfetiany, M. Elzeir (2013): Simulation-Optimization Model for Intermediate Reuse of Agriculture Drainage Water in Egypt. *Journal of Environmental Engineering* 03/2013; 139(3). DOI:10.1061/(ASCE)EE.1943-7870.0000605
69. Masuyama, T., O.C. Saavedra Valeriano, C. Yoshimura (2013), Vulnerability Assessment of Urban Water Supply Systems to Drought in Japan, *Journal of Japan Society of Civil Engineers (Hydraulic Engineering)*I_169-I_174.
70. El-Aziz R. O, O.C. Saavedra Valeriano, Y. Hirabayashi (2013), Future Variation in River Discharge in the Atbara Basin Under Climate Change Scenarios, *Journal of Japan Society of Civil Engineers (Hydraulic Engineering)*), 69, No. 4, I_199-I_204.
71. Fleifle A., O. Saavedra Valeriano, H. Nagy, F. Elfetiany, A. Tawfik, M. Elzeir (2013): Simulation-Optimization Model for Intermediate Reuse of Agriculture Drainage Water in Egypt, *Journal of Environmental Engineering*, (ASCE), **139**, 3, 391- 401.
72. Tanuma, K., O. Saavedra Valeriano, and M. Ryo (2012): Evaluation of Satellite Based Precipitation products at Chao Phraya basin Thailand. *Thai Environmental Engineering Journal*, Special Vol.(1-6/2012), pp.57-61.
73. Saavedra, O., T. Koike, M. Ryo and S. Kanae (2012): “Real Time Flood Control using

- Quantitative Precipitation Forecast and Ensemble Approach in Rainfall Forecasting,” **book chapter** in “Rainfall Forecasting” Tommy Wong (ed), ISBN: 978-1-61942-134-9, **Nova Science Publishers**, pp. 233-276.
74. Wang, F., L. Wang, H. Zhou, O. Saavedra Valeriano, T. Koike, and W. Li (2012), Ensemble hydrological prediction based real-time optimization of multi-objective reservoir during flood season in a semiarid basin with global numerical weather predictions, *Water Resources Research*, doi:10.1029/2011WR011366.
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OTHER PUBLICATIONS

1. Escalante, C., Echeverría I. y O. Saavedra (2022): Evaluación de la eficiencia de la planta de tratamiento de aguas residuales Colque Rancho del municipio de Punata, Proceedings del XIX Congreso Internacional Región III de Ingeniería Sanitaria y Ambiental AIDIS XV Congreso Nacional ABIS
2. Echeverría I., O. Saavedra, R. Escalera, G. Heredia & R. Montoya (2019): Potencial de re- uso de aguas residuales tratadas mediante sistemas anaerobios combinados con biofiltros en el valle alto de Cochabamba, Revista del Ministerio de Medio Ambiente y Agua (MMAyA), 6 pp.
3. Saavedra Valeriano, O.C (2016): Variación de la precipitación en la región de Cochabamba, *Tejido Empresarial*, Federación de Empresarios Privados de Bolivia.
4. Saavedra Valeriano, O.C., C. Yoshimura, A. Negm, M. Ateia et al (2015): A platform for integrated water resources management for mega deltas under climate change -JSPS mega delta project-*18th International Water Technology Conference (IWTC)*, Sharm ElSheikh, 12-14 March 2015, 8 pages.
5. Takegawa, S., K. Takido, and O. Saavedra Valeriano (2015): Spatiotemporal Evaluation of Global Precipitation Mapping - GSMaP at Basin Scale in Sagami River, Japan, *18th International Water Technology Conference (IWTC)*, 12-14 March 2015, 6 pages.
6. Kataoka, T., R. Sakazume, K. Takido, O. Saavedra Valeriano, M. Ryo and W. Liengcharernsit (2015): Water Balance in Chao Phraya Basin Using A Distributed Hydrological Model And Satellite Products, *18th International Water Technology Conference (IWTC)*, 12-14 March 2015, 7 pages.
7. Masria, A., M. Iskander, M., A. Negm, and O. Saavedra Valeriano (2014): The Effect of potential discharges on the Stability of the Rosetta Promontory, Egypt. *7th International Conference on Fluvial Hydraulics-River Flow 2014*, 3-5 September, Lausanne, Switzerland.
8. Masria, A., A. Negm, M. Iskander, and O. Saavedra Valeriano (2014): Long-term numerical simulation to reach stability condition within the river mouth; case study:

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 10. Tanuma, K., O. Saavedra Valeriano, and M. Ryo (2013): Spatial variability of precipitation and soil moisture on the 2011 flood at Chao Phraya River Basin, *17th International Water Technology Conference (IWTC)*, Istanbul, 5-7 November 2013, 8 pages.
 11. Suif Z., C. Yoshimura, O. Saavedra Valeriano, and H. Seingheng (2013): "Spatially distributed model for soil erosion and sediment transport in the Mekong rivers basin" *17th International Water Technology Conference (IWTC)*, Istanbul, 5-7 November 2013, 8 pages.
 12. Masria A. Abdelazim Negm, Moheb Iskander, O. Saavedra Valeriano, "Review paper: coastal zone issues, case study(Egypt). *12th International Conference on Computing and Control for the Water Industry, CCWI2013*.
 13. El-Adawy, A, A. M. Negm, O. Saavedra Valeriano and I. A. El-Shinnawy (2013): Modeling the Hydrodynamics and Salinity of El-Burullus lak, in *The proceeding of the 23rd International Conference "Environmental protection is a must"* May11-13, Alexandria, Egypt. Available at: <http://www.isa-egy.com/index.php>
 14. Fleifle, A., A. Tawfik, O. Saavedra Valeriano, and M. Elzeir (2012) Treatment of agricultural drainage water via downflow hanging sponge system for reuse in agriculture, *Proceedings of IWA Regional Conference on Wastewater Purification and Reuse*, 28-30 March, 2012 Heraklion, Crete, Greece.
 15. El-Aziz, O, O. Saavedra Valeriano, M. Elzeir, S. Ookawara (2012) Simulation Of Atbara basin Using A Distributed Hydrological Model and Global Data Sets, *XIX International Conference on Water Resources CMWR 2012*, University of Illinois at Urbana-Champaign, June 17, USA, 8 pages.
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18. Saavedra Valeriano, O., Koike, T., Bousseta, S. and Ueda, T. (2010): Application of a Distributed Biosphere Hydrological Model to Medjerdah Basin, Northern Africa, *Fourteenth International Water Technology Conference, IWTC*, Cairo, Egypt, 21-23 March, pp. 969-977.
19. Saavedra Valeriano, O., and Koike, T. (2009): Applications of a Distributed Hydrological Model to the AWCI Demonstration River Basins. *4th Asia-Pacific Hydrology and Water Resources (APHW) Conference*, Beijing, 3-5 November 2008, 4 pages.
20. Saavedra Valeriano, O.C., Koike, T., Yang, K. & Yang, D. (2008) A quantitative precipitation forecast-based real-time operation of a multi-reservoir system for flood management. In: *Predictions for Hydrology, Ecology, and Water Resources Management: Using Data and Models to Benefit Society* (ed. by J. Bruthans, K. Kovar & Z. Hrkal), *Proc. HydroPredict2008 Conf.* (15-18 September 2008, Prague, Czech Republic). Published by Czech Association of Hydro geologists, ISBN 978-80-903635-3-3, pp.231-234

PRESENTATION AT INTERNATIONAL MEETINGS

2024

1. Saavedra, O. & J. Ureña (2024): Updates in Ground validation of GPM products and their hydrological applications in Bolivia, Joint PI meeting of JAXA Earth Observation Missions FY2024, Invited talk, Tokio, Japón, noviembre 18-22.
2. Saavedra, O. & J. Ureña (2024): Assessment of a downscaling using quantiles mapping with MIROC model and satellite based precipitation in Guadalquivir basin, Bolivia, The 9th International Symposium on Integrated Water Resources Management (IWRM), Invited talk, Florianópolis, Brasil, noviembre 4-7.
3. Saavedra, O. & J. Ureña (2024): Flood analysis in Bolivian Andes using a combined satellite-based precipitation, South America Water from Space III, Belem, Brasil, Brasil 29 de oct al 2 de nov. Saavedra, O. (2023): Ground validation of GPM products and their hydrological applications in Bolivia, Joint PI meeting of JAXA Earth Observation Missions FY2024, Invited talk, Tokio, Japón, noviembre 6-10.

2023

1. Saavedra, O. & J. Ureña (2023): Spatial distribution of Precipitation in Bolivia and its applications, IAHSM Taller de Hidrología de Latinoamérica, Florianópolis, Brasil del 27 de febrero al 1 de marzo de 2023.

2022

1. Saavedra, O. & J. Ureña (2022): Development of combined daily satellite-based precipitation products over Bolivia, South America Water from Space III, Itaipu, Binacional, Foz de Iguazu, Brasil del 21 al 25 de noviembre 2022
2. Saavedra, O. & J. Ureña (2022): Generación de bases de datos de precipitación combinada diaria entre datos satelitales y pluviométricos para Bolivia, CIGIA2 – II Congreso Internacional de Gestión Integral del Agua, Cochabamba del 26 al 28 de octubre de 2022.
3. Saavedra, O. & J. Ureña (2022): Aplicación de SIG para la Generación de Precipitación Distribuida en Bolivia, ForoMundo UNIGIS (2022) "Las Américas vuelven a verse en el mapa", Virtual desde Quito - Ecuador el 29 y 30 de septiembre de 2022.
4. Saavedra, O. (2022): Experiences in domestic wastewater treatment for reuse in agriculture in the municipality of Cliza, XIX Congreso internacional región III de ingeniería sanitaria y ambiental AIDIS”, La Paz, Bolivia, 18-20 mayo.

2021

1. Saavedra, O. & J. Ureña (2021): The Development of a Combined Satellite-Based Precipitation Dataset in Bolivia AGU Fall Meeting, New Orleans, USA, 13-17, December.
2. Rosales L., O. Saavedra W. Soruco (2021): Hydrogeological Modeling in Central Valley of Cochabamba-Bolivia, World Groundwater Congress, Brazil, 26 agosto.
3. Echeverria I, O. Saavedra (2021): Design and implementation of a rotating biological contactor prototype as an alternative for wastewater treatment at intermediate cities, 4th Smallwat 21v Wastewater in Small Communities, Red Tecnológica de Depuración de Aguas en Pequeñas Aglomeraciones Urbanas “IDIAqua” Sevilla, España, 17-18 de junio.

2020

1. Saavedra, O. (2020): Avances en la validación de productos GSMaP en cuencas de Bolivia, PMM/GCOM/EarthCARE Annual Meeting, Invited talk, Tokio, Japón, enero 20-24.

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2019

1. Saavedra, O.(2019): Avances en la validación de productos GSMaP en cuencas de Bolivia, PMM/GCOM/EarthCARE Annual Meeting, Invited talk, Tokio, Japón, Enero 21-25.

2018

1. Saavedra Valeriano, O.C.(2018): Validación local de la precipitación estimada por satélite en Bolivia para aplicaciones en hidrología, South America Water from Space Conference, Invited talk, Santiago, Chile, 26-28 March
2. Saavedra Valeriano, O.C.: (2018): Ground validation of satellite based precipitation products in Bolivia, Asia-Oceania Geosciences Society Annual Meeting , Invited talk Hawaii, USA, June 3-8

2017

1. Saavedra Valeriano, O.C.: (2017): Validation of satellite precipitation products using local rain gauges to support water assessment in Cochabamba, Bolivia, *AGU Fall Meeting*, New Orleans, USA, 11-15, December.
2. Saavedra Valeriano, O.C.: (2017): Avances en la validación de productos GSMaP en cuencas de Cochabamba, Bolivia, PMM/GCOM/EarthCARE, Invited talk, Tokio, Japon, 23-27 de Enero 2017

2016

1. Saavedra Valeriano, O.C., C. Yoshimura, S. Kanae, K. Nadaoka, J. Takemura, A. Negm, N. Phong (2016): Hydrological and Environmental Aspects of International Rivers and Deltas, Invited speaker at the *19th International Water Technology Conference (IWTC)*, 21-23 April 2016, *Sharm ElSheikh, Egypt*.
2. Saavedra Valeriano, O.C., C. Yoshimura, S. Kanae, K. Nadaoka, J. Takemura, A. Negm, N. Phong (2016): A research framework of Mega Deltas in Asia and Africa, *International Science Conf. on MAHASRI*, 2-4 March 2016, Tokyo

2015

1. Saavedra Valeriano, O.C., S. Takegawa, T. Kataoka, K. Takido, and T. Ushio (2015): Ground Validation of Global Rainfall Products from Hydrological Perspective, Oral, *HS06-A016, AOGS meeting*, 2-8 August, Singapore.

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2. Saavedra Valeriano, O.C., C. Yoshimura, A. Negm, M. Ateia et al (2015): A platform for integrated water resources management for mega deltas under climate change -JSPS mega delta project-18th International Water Technology Conference (IWTC), 12-14 March 2015, Sharm ElSheikh, Egypt.

2014

1. Saavedra Valeriano, O.C., M. Ryo, K. Takido, T. Ushio: (2014): Are recent Satellite-Based Precipitation products useful for flood identification at humid basins? Oral, ID 29021, AGU Fall Meeting, 15-19, December, San Francisco, USA.
2. Tanuma, K, O. Saavedra Valeriano, Z. Suif, C. Yoshimura (2014): Assessment of the Effect of Land use Change in Chao Phraya River Basin Using a Distributed Sediment Transport Model, Oral, HS10-A024, AOGS meeting, 28 July-1st August, Sapporo, Japan.

2013

1. Saavedra Valeriano, O. et al. (2013): Flood management in Southeast Asia using hydrological model, Scientific Seminar on Water Resources Sustainability and Source Water Vulnerability, Institute of Technology of Cambodia, 21 March, Invited talk, Phnom Penh, Cambodia.
2. Saavedra Valeriano, O., M. Ryo, Tanuma, K., and O. R. El-Aziz (2013): Applications in Hydrology of ground-based radar and satellite-based precipitation, International Seminar for Remote Sensing Technology and Atmospheric Science, Invited talk, 3-4 March, Osaka University.

2012

1. Saavedra Valeriano, O., M. Ryo, T. Koike, N. D. Tinh (2012) Ensemble forecasts to support decision making at basin scale during heavy precipitation, Proc. HydroPredict2012 Conference, 24-27 Sept., BOKU University, Vienna, Austria.
2. Saavedra Valeriano, O.C., T. Ogata, C. Yoshimura, and K. Tanuma (2012), Projection of flow and sediment load in Chao Phraya River basin and its implications for integrated basin management, AOGS meeting, 13-17 August 2012, Singapore.
3. Saavedra Valeriano, O.C., T. Koike, M. Ryo, S. Kanae and C. Yoshimura (2012) Real Time Flood Control using Precipitation Forecast and Hydrological modeling, Fourth AUN/SEED-Net Regional Conference on Global Environment, 18-19 January, Bangkok,

Thailand.

4. Saavedra Valeriano, O.C., O. R. El-Aziz, M. Elzeir, (2012) Flood management in Eastern Nile River basin using Global Data set and enhanced Satellite based Precipitation, Eastern Nile Planning Model Workshop, 9-12 July, Alexandria, Egypt.
5. Saavedra Valeriano, O.C., T. Koike, M. Ryo, S. Kanae and C. Yoshimura(2012): Real Time Flood Control using Precipitation Forecast and Hydrological modeling, Keynote presentation at *Fourth AUN/SEED-Net Regional Conference on Global Environment*, 18-19 January, Bangkok, Thailand.

2011

1. Saavedra Valeriano, O.C., et al. (2011): Flood Forecast and dam operation optimization systems at *Eight GEOSS Asian Water Cycle Symposium, invited talk, Sejong University*, 7 October, Seoul, Korea.
2. Saavedra Valeriano, O.C., et al.: Towards sustainable water management of the Nile River Basin at *Second GEOSS African Water Cycle Symposium, United Nations Conference Centre*, 23-25 January, Addis Ababa, Ethiopia.

2010

1. Saavedra Valeriano, O.C., Koike, T., Yang, K., Graf, T., Li, X., Wang, L. & Han, X.: (2010) Forcing a distributed hydrological model with ensemble precipitation forecasts to support dam operation during floods. Poster, *H23AE-1129, AGU Fall Meeting*, 13-16, December, San Francisco, USA.
2. Saavedra Valeriano, O., Koike, T., Bousseta, S. and Ueda, T. (2010): Application of a Distributed Biosphere Hydrological Model to Medjerdah Basin, Northern Africa, *Fourteenth International Water Technology Conference, IWTC*, 22 March, Cairo, Egypt.

2009

1. Saavedra Valeriano, O.C., Koike, T. and Berbery, E. H. (2009): On the use of MODIS and TRMM products to simulate hydrological processes in the La Plata Basin., *H11E-0856, AGU Fall Meeting*, 14 December, San Francisco, USA.
2. Saavedra Valeriano, O.C., Koike, T. (2009): Decision support in water resources management using remote sensing data and quantitative precipitation forecast, *Workshop on Using Advanced Geographical Information System (GIS) and Satellite Information for Development in Asia*, Asian Development Bank, Invited talk, 12 October, Manila, The

Philippines.

3. Saavedra Valeriano, O.C., and Koike, T. (2009): Optimal Reservoir Operation Using Meso-scale Quantitative Precipitation Forecast, Poster, *6th International Scientific Conference on the Global Energy and Water Cycle, GEWEX, held on 24-28 August, Melbourne, Australia.*
4. Saavedra Valeriano, O.C., Koike, T. and Boussetta S. (2009): Application of a Distributed Hydrological Model to Medjerda River Basin, Poster, *The GEOSS-African Water Cycle Symposium, Tunis, Tunisia, January 6-9.*

2008

1. Saavedra Valeriano, O.C., and Koike, T.: Flood reduction using a Distributed Hydrological Model coupled to an Optimization Algorithm, Poster, *HydroChange2008 Conf.*, Kyoto, 1-3 October, **2008**.
2. Saavedra Valeriano, O.C., Koike, T.: Towards Improvement of Water Resources Management of La Plata Basin, Oral. *XV CBMET Meteorological Congress*, Sao Paulo, Brazil, 24-29 August, **2008**.
3. Saavedra Valeriano, O.C., Koike, T.: Towards the effective Flood Management of Meghna River Basin using a Distributed Hydrological Model, Oral, *Capacity Building on Climate Change and Adaptation in Bangladesh*, SAARC Meteorological Department, Agargaon, Dhaka, Bangladesh, 7 August, **2008**.
4. Saavedra Valeriano, O.C., Distributed Hydrological Modeling Using the Global Data Set, *International Workshop on Use Satellite Based Information in Flood Risk Management*, Oral, Jakarta, Indonesia, 21 July **2008**.
5. Saavedra, O. and Koike, T.: Towards Global River Discharge using a Distributed Hydrological Model, Invited talk, *Global Mapping Forum*, United Nations University (UNU), Tokyo, 5-6 June **2008**.
6. Saavedra, O. and Koike, T.: Update status of Asian Water Cycle Initiative. Global Precipitation Measurement (GPM), *Asia Workshop 2008*, Hamamatsu, 2-4 June **2008**.

2007

Saavedra, O., Koike, T., Yang, K. and Yang, D.: Real-Time Operation of a Multipurpose Multi-Reservoir System using a Distributed Hydrological Model & Quantitative Precipitation Forecast, Oral, *AGU Fall Meeting*, San Francisco, 10-14 December, 2007.