

Curriculum Vitae  
(October 2013)



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**EDUCATION**

- **Ph.D. in Water Resources and Environmental Engineering**, Swiss Federal Institute of Technology at Lausanne (EPFL), Switzerland, 2008.
- **Master of Engineering**, Faculty of Engineering, Civil Engineering Department, Saga, Japan, 2003.
- **BSc. in Civil Engineering**, Alexandria University, Egypt, 1997.

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**PROFESSIONAL EXPERIENCE**

- 9/2011 – Present, Associate Professor, Civil Engineering Department, Faculty of Engineering and Material Science, The German University in Cairo – GUC, Egypt
- 3/2010 – 8/2011, Senior Researcher, Laboratory of Socio and Ecohydraulics, Environment Risk Management, Kyoto University, Japan
- 3/2009 - 2/2010, Swiss National Science Foundation (SNSF) Research Fellow, Kyoto University, Japan
- 1/2008 - 12/2008, Postdoctoral Research Fellow, Swiss Federal Institute of Technology at Lausanne, Switzerland
- 11/2003 - 12/2007, Research Assistant, Swiss Federal Institute of Technology at Lausanne, Switzerland
- 12/2001 - 6/2003, Tutor, Saga University, Saga, Japan.
- 10/1998 - 7/2001, Instructor, Alexandria University and Arab Academy for Science & Technology, Alexandria, Egypt.
- 10/1997 - 10/2000, Hydraulics and Bridge Design Engineer (part time), EKR Kurish-Abido-Abdelrahman, Alexandria, Egypt.

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**AWARDS AND SCHOLARSHIPS**

- Outstanding Award (TWAS-ARO), 7<sup>th</sup> conference on Water, Nuclear and Renewable Energy: Challenges Versus Opportunities, Bibliotheca Alexandrina, Egypt, 2011.
- Young Researcher Fellowship of the Swiss National Science Foundation (SNSF), Fellowship No PBELP2-122870, 3/2008- 2/2009.
- Best Student Award, Laboratory of Hydraulic Constructions (LCH), EPFL, 2007.
- Outstanding Paper Award (Asahi Ryunetsu Award), 5th International Symposium on Ultrasonic Doppler Methods for Fluid Mechanics and Fluid Engineering, ETH Zurich, Switzerland, 2006.

- Doctoral School Scholarship, EPFL, 11/2003– 10/2004, (competition rate: 1/14).
- Excellent Presentation Award, Annual Japan Society of Civil Engineering conference for West Coast section (SEBISHIBU), Saga, Japan, 2002.
- Japanese Government Scholarship (MONBU-KAGAKU-SHO) for Master Study in Civil Engineering, 1/10/2001- 30/9/2003.
- Best Student in Hydraulics Award (Prof. KANSOH Award), Civil Engineering Department, Faculty of Engineering, Alexandria University, 1995.
- Egyptian Government Award of Excellence in Undergraduate Studies in the Faculty of Engineering, 10/1/1992- 7/1/1993 and 10/1/1995- 7/1/1997.

## RESEARCH FUNDING

Year	Amount	Sponsor	Project Title	Investigators
2013-2016	\$240,000	Japan Society for the Promotion of Science (JSPS)	Development of a feasible strategy to understand the long term potential Soio-economic effects in both Mega Delta areas	Tokyo Institute of Technology, Kyoto University, and Tohoku University, Coastal Research Institute, EJUST; <b>The German University in Cairo</b> ; Alexandria University, Ho Chi Minh City University of Technology (HCMUT), Can Tho University
2013-2014	€10,000	DAAD	Regional Opportunity, Global Sustainability and Innovation in Egypt	Prof. Dr.-Ing. Ibrahim El-Dimeery Prof. Dr. Florian Becker-Ritterspach; Dr. Sigurt Vitols; Social Science Research Center Berlin (WZB), <b>Associate Prof. Dr. Sameh Kantoush; GUC</b> , Associate Prof. Dr. Sherwat Elwan; Dr.-Ing. Vazul Boros, University of Stuttgart
2012-2013	€10,000	DAAD	Innovative Methodologies And Technologies For Sustainable Communities	Silke Wieprecht, Bernhard Westrich, <b>Sameh Kantoush</b> Ahmad Mosa, Tarik Youssef Vazul Boros, Sven Hartmann Reinhard Hinkelmann, Balthasar Novák, Andreas Pritschow Sven Prieststaff, Andre Weber
2009.4-2012.3	JPY 4,500,000	Mibu River Office, MLIT, Japan	Development of Sediment Monitoring Method for Integrated Operation of Sediment Bypass System in Miwa Dam	T. Sumi, T. Sakurai, <b>S. Kantoush</b> , D. Nohara,
2010.4-2012.3	JPY 19,890,000	MLIT, Japan	Hydraulic Study on Improvement of Flood Mitigation Dams	T. Komatsu, T. Sumi, Y. Shimizu, G. Watanabe, T. Ikeda, <b>S. Kantoush</b>

2009.4-2011.3	JPY 15,000,000	Yodo River Office, MLIT, Japan	Development of Field Monitoring Method of Sediment Transport during Floods by LSPIV, Laser Scanner and RF-Tag technologies	T. Sumi, T. Murasaki, <b>S. Kantoush</b> , H. Ishida
2009.7-2014.6	JPY 50,000,000	GCOE Kyoto University, Japan	Japan Egypt Hydro Network	T. Sumi, T. Kojiri, <b>S. Kantoush</b> , T. Kenji, M. Saber, R.M. Kansoh, E. ElShinnawy, H. Fahmy, M. Soilman
2011.03	Egy.Pound 85,000 JPY 1,500,000	STDF and JSPS	Modern Methodologies for the Management, Monitoring and Planning of Integrated Water Resources in Nile Delta	T. Sumi, E. ElShinnawy, <b>S. Kantoush</b> , T. Kojiri, R.M. Kansoh
2008-2009	70,000 CHF	Swiss National Science Foundation (SNSF)	Prediction of sediment budget for eco-friendly flood mitigation dams	<b>S. Kantoush</b>

- MLIT: Ministry of Land, Infrastructure, Transport and Tourism
- GCOE-ARS: Global Center Of Excellence - Adaptation and Resilience in a Sustainable/Survivable Society to extreme weather and water conditions
- JSPS: Japan Society for Promotion of Science, Japan
- STDF: Science and Technology Development Fund, Egypt
- DPRI: Disaster Prevention Research Institute, Japan
- DAAD: The German Academic Exchange Service
- GUC: The German University in Cairo
- Japan Science and Technology (JST)-JICA Project for Technical Cooperation "SATREPS
- GUC: The German University in Cairo
- EJUST: Egyptian Japanese University for Science and Technology

## **PUBLICATIONS (GOOGLE SCHOLAR CITATIONS = 226, H-INDEX = 8)**

\*\* Graduate student advised by Kantoush,

\*\*\* UNDERGRADUATE STUDENT

### **Communication, Books, Technical Reports, and Thesis (9)**

1. **KANTOUSH, S.A.** (2008). Experimental study on the influence of the geometry of shallow reservoirs on flow patterns and sedimentation by suspended sediments. *Communication (37) Laboratory of Hydraulic constructions (LCH)*, Ed. A. Schleiss, Swiss Federal Institute of Technology (EPFL), ISSN 1661-1179, 2008.
2. **KANTOUSH, S. A.**, Modelling for water management and flood prevention for the channel network in the Nile Delta of Egypt, *MSc. Thesis, Department of Civil Engineering, Saga University, Saga, Japan, August 2003.*
3. **KANTOUSH, S. A.**, Influence of reservoir geometry on the process of sedimentation in shallow reservoirs by suspended sediment load. *Research plan report for Doctoral school ENAC, Swiss Federal Institute of Technology EPFL, Laboratory of hydraulic constructions LCH, Lausanne, Switzerland, October, 2004.*
4. **KANTOUSH, S. A.**, Jean-Louis Boillat. Physical model tests for La Paz sewer system (La Paz, Bolivia). Experimental rapport, *Swiss Federal Institute of Technology, Laboratory of hydraulic*

*constructions LCH, Rapport No 9/04, Lausanne, 29 July, 2004.*

5. **KANTOUSH, S. A.**, Influence of reservoir geometry on the process of sedimentation in shallow reservoirs by suspended sediment load. *Three Annual thesis reports for doctoral school ENAC, Swiss Federal Institute of Technology EPFL, Lausanne, Switzerland, December 2004, 2005, 2006, 2007, and 2008.*
6. **KANTOUSH, S. A.**, Influence of reservoir geometry on the process of sedimentation in shallow reservoirs by suspended sediment load. *Five Annual reports for Research Projects Rhone-Thur, 2004, 2005, 2006, 2007, and 2008.*
7. **KANTOUSH, S. A.**, Development of a prediction and an optimum management measure of sedimentation in flood control reservoirs. *Scientific technical report for SNSF, Bourses pour chercheuses et chercheurs débutants, Subside no. PBELP2-122870, 2010.*
8. **KANTOUSH, S. A.**, Challenges and future perspective of Japan-Egypt Hydro Network: Modern Methodologies for Integrated Water Resources Management in Egypt. *Final report for GCOE-ARS Project, Kyoto, Japan, 2012.*
9. **KANTOUSH, S. A.**, Strengthening Research Role and Educational Development in the International Cooperation and Knowledge Society. *Final report for GCOE-ARS Project, Kyoto, Japan, 2013.*

### **Journals (total = 20)**

#### In-preparation (2)

1. **KANTOUSH, S. A.**, and Sumi, T. "Sediment Feeding Measures for Revitalization of Japanese Rivers below Dams", *Journal of Water Resources Management*.
2. **KANTOUSH, S. A.**, and Schlesiss, A. "Shallow reservoir behavior and its corresponding intriguing phenomena during deposition and drawdown flushing", *J. of Hydraulic Research*.

#### In-review (2)

3. **KANTOUSH, S. A.**, and Schleiss, A., 2013. "Influence of the shallow reservoir geometries on sedimentation behavior and trap efficiency", *J. of hydra. Eng. ASCE*.
4. **KANTOUSH, S. A.**, and Testsuya SUMI, Field and Numerical Modeling to Re-establishing Sediment Transport in Regulated Rivers Shallow reservoir behavior and its corresponding intriguing phenomena during deposition and drawdown flushing. *Journal of River Research and Applications*.(submitted)

#### Published (18)

5. \*\*Esmaili, T., Sumi, T., **KANTOUSH, S. A.** (2014) Three-Dimensional Numerical Modeling of Flushing Channel Formation In Shallow Reservoirs, *Journal of Hydraulic Engineering Vol.58, No.1, 2014.*
6. \*\*Meshkati, M., Sumi, T., and **KANTOUSH, S. A.** (2014) Interdependence between Flow Pattern, Geometry and Flushing Efficiency Of In-Ground Stilling Basin, *Journal of Hydraulic Engineering, JSCE, Vol.58.*
7. Sumi, T., Saber, M., **KANTOUSH, S. A.**, (2013) Japan-Egypt Hydro Network: Science and Technology Collaborative Research for Flash Flood Management, *Journal of Disaster Research Vol.8No.1, 2013.*
8. \*\*Meshkati, M., Sumi, T., **KANTOUSH, S. A.**, and Temmyo, T., (2012) Influence of air injection on suction power and pressure gradient in dredger system, *Journal of Hydraulic Engineering, JSCE, Vol.56.*
9. **KANTOUSH, S. A.**, Sumi, T. Murasaki, M., and Schleiss, A., (2011) LSPIV implementation for environmental flow in various laboratory and field cases, *Journal of Hydro-environment Research, 5(4), pp. 263-276, doi:10.1016/j.jher.2011.07.002.*

10. **KANTOUSH, S. A.**, Sumi, T., and Takemon, Y. (2011) Challenges for dams and reservoir sedimentation in Japan, *International Water Power and Dam Construction magazine*.
11. Sumi, T., **KANTOUSH, S. A.** and Shirai, A. (2011) Field Investigations of Flood Mitigation Structures in Styria and Comparison with Japanese Case Studies”, *Journal of Water Land Steiermark*, pp. 37-43, ISSN 2073–1515.
12. **KANTOUSH, S. A.**, Sumi, T., and Murasaki, M. (2011) Evaluation of sediment bypass efficiency by flow field and sediment concentration monitoring techniques, *J. of Hydraulic Engineering, JSCE, Vol.55*, pp. 169-173.
13. **KANTOUSH, S. A.**, T., Sumi and A. J. Schleiss, (2010) Geometry effect on flow and sediment deposition patterns in shallow basins. *Journal of Hydraulic Engineering, JSCE, Vol.54*, 133-138.
14. **KANTOUSH, S. A.**, T., Sumi. (2010). River morphology and sediment management strategies for sustainable reservoir in Japan and European Alps, *International Journal of Disaster Prevention., Japan, 53(B)*, pp. 821-839.
15. **KANTOUSH, S. A** and Schleiss, A. J., (2009). Large scale PIV- measurements at the surface of different shallow reservoir geometries, *Journal of Visualization, Vol. 12, No. 4 (2009) 361-373*.
16. **KANTOUSH, S. A.** and Schleiss, A. J., (2009), Channel Formation in Large Shallow Reservoirs with Different Geometries during Flushing, *Journal of Environmental Technology, Volume 30 Issue 8*, 855-863.
17. **KANTOUSH, S. A.**, Bollaert, E., and Schleiss, A. J., (2008), Experimental and numerical modelling of sedimentation in a rectangular shallow basin, *International Journal of Sediment Research, Vol. 23, No. 3, 2008*, pp. 212–232.
18. **KANTOUSH, S. A.**, De Cesare, G., Boillat, J.L. and Schleiss, A. J., (2008), Flow Field Investigation in a Rectangular Shallow Reservoir using UVP, LSPIV and numerical modelling, *Journal of Flow Measurement and Instrumentation, 19(3-4):139–144*.
19. Dewals, B. J., **KANTOUSH, S. A.**, Epicum, S., Piroton, M., and Schleiss, A. J., (2008), Analysis of flow instabilities in shallow rectangular basins, *Journal of Environmental Fluid Mechanics, 8(1):31–54*.
20. **KANTOUSH, S. A.**, Schleiss, A. J., and Nagy, H., (2008), Deposition of sediment mixture due to jet effluent into a rectangular shallow reservoir, *Alexandria Engineering Journal, 62(5): 733–743*.
21. **KANTOUSH, S. A.**, Boillat, J.-L., Bollaert, E., and Schleiss, A. J., (2008), Influence of shallow reservoir geometry on the flow pattern and sedimentation process by suspended sediments, *J. Wasser, energie, luft 100(1): 13-21*.
22. H. Moukhliiss, A. J. Schleiss, **KANTOUSH, S. A.**, and G. De Cesare (2006). Et si les crues de l’Arve rejoignaient le Léman? Etude de faisabilité de la dérivation des crues de l’Arve pour améliorer le rendement de la centrale du Seujet et décharger la retenue de Verbois, *Journal Archives des Sciences, 59(2-3):193-200*.
23. **KANTOUSH, S. A.**, Nagy, H. and Watanabe, K., (2004), Modelling for flood prevention for the coastal area of Nile Delta in Egypt, *Journal of Hydraulic Engineering, JSCE, VOL. 48*, 637-642.
24. **KANTOUSH, S. A.**, Nagy, H. and Watanabe, K., (2003), Modelling Simulation for flood routing and tidal propagation in coastal drains, *Alexandria Engineering Journal, 42(6): 715-722*

### Refereed Conference papers (75)

1. **KANTOUSH, S. A.**, Sumi, T., (2013). Challenges and future perspective of Japan-Egypt Hydro Network: Modern Methodologies for Integrated Water Resources Management in Egypt,

- International *Symposium of Global COE Sustainability/Survivability Science for a resilient Society Adaptable to Extreme Weather Conditions, (GCOE-ARS), Kyoto, Japan.*
2. **KANTOUSH, S. A.**, Sumi, T., Takemon, T. (2014). Study on reservoir sediment management by replenishing sediment downstream of Japanese Dams, *Proceedings of River Flow 2014, Lausanne, Switzerland.*
  3. **KANTOUSH, S. A.**, (2014). Effect of Black Hole Dams in the Eastern Nile River Basin: Changes in Water Quantity and Quality of Downstream Countries, *Proceedings of River Flow 2014, Lausanne, Switzerland.*
  4. **KANTOUSH, S. A.**, (2013). The Downstream Impacts of Ethiopia's Cascade Dams in the Upper Blue Nile on Egypt, *Proceedings of Regional Sustainable Building conference SB13 Cairo, Fairmont Towers Hotel Cairo, Egypt*
  5. Soliman, M.R., Ushijima, S., **KANTOUSH, S. A.**, (2014). Density current propagation in a tidal river, *Proceedings of River Flow 2014, Lausanne, Switzerland.* Three-dimensional numerical modeling of sediment flushing:
  6. Esmaeili, T., Tetsuya, S., Haun, S., **KANTOUSH, S. A.**, (2014). Three-dimensional numerical modeling of sediment flushing: Case study of the Dashidaira reservoir, Japan, *Proceedings of River Flow 2014, Lausanne, Switzerland.* Three-dimensional numerical modeling of flow field in rectangular shallow reservoirs
  7. Esmaeili, T., **KANTOUSH, S. A.**, Tetsuya, S., Haun, S., (2014). Three-dimensional numerical modeling of flow field in rectangular shallow reservoirs, Japan, *Proceedings of River Flow 2014, Lausanne, Switzerland.*
  8. **KANTOUSH, S. A.**, Sumi, T., (2013). Challenges for Sediment Bypass Tunnel and Bypassing Efficiency, *Proceedings of 2013 IAHR Congress, Tsinghua University Press, Beijing, China.*
  9. **KANTOUSH, S. A.**, T. Sumi, (2013). Reservoir sedimentation and Sediment Management Techniques in the Nile River Basin Countries, *12th International Symposium on River Sedimentation, Kyoto, Japan.*
  10. Ahmadul Hassan, **KANTOUSH, S. A.**, Tanvir Ahmed, Sarazina Mumu, 2013. "Application of the SWAT Model in the Eastern Nile Basin under Different Scenarios", *Proceedings of 2013 IAHR Congress, Tsinghua University Press, Beijing, China.*
  11. \*\*Meshkati Shahmirzadi, M. E., Sumi, T. and **KANTOUSH, S. A.**, (2012). The Effect of In-ground Stilling Basin Geometry combined by Slit-type End-sill on Flow Pattern and Energy Dissipation below the Flood Mitigation Dams, *Proc. 18th Congress of the APD-IAHR, Jeju, Korea, 2012.*
  12. D. Nohara, T. Sumi, **KANTOUSH, S. A.**, (2013). Real-time sediment inflow prediction for sediment bypasses operation at Miwa Dam in Japan, *12th International Symposium on River Sedimentation, Kyoto, Japan.*
  13. Meshkati-Shahmirzadi, Sumi, T., **KANTOUSH, S. A.**, (2013) Flow Field Characteristics of In-ground Stilling Basin Downstream of Flood Mitigation Dams, *Proceedings of 2013 IAHR Congress, Tsinghua University Press, Beijing, China.*
  14. \*\*\*M. Gaafar, and M. A. Abourohiem, **KANTOUSH, S. A.**, (2013) Experimental study and numerical simulation of Scour Inducing Effect on Seepage underneath Barrages, *Proceedings of 2013 IAHR Congress, Tsinghua University Press, Beijing, China.*
  15. \*\*Meshkati-Shahmirzadi, **KANTOUSH, S. A.**, Y. Nakamura, M. E., Sumi, T., and, Temmyo, T., Y. Yamagami, (2012). Experimental and Filed Investigation on Ejector Pump Dredger Systems in

- Mountain Reservoirs, *Dredging 2012 conference, PIANC USA and the Coasts, Oceans, Ports and Rivers Institute of American Society of Civil Engineers (COPRI ASCE), San Diego, USA.*
16. \*\*Cajot, S., Schleiss, A, **KANTOUSH, S. A.**, Sumi, T. (2012). Reservoir sediment management using replenishment: A numerical study of Nunome Dam”, *International Symposium on Dams for Changing World, ICOLD2012, 5-8 June 2012, Kyoto, Japan.*
  17. Sumi, T., **KANTOUSH, S. A.**, \*\*\*Suzuki, S. (2012). Performance of Miwa dam sediment bypass tunnel: evaluation of upstream and downstream state and bypassing efficiency, *International Symposium on Dams for Changing World, ICOLD2012, 5-8 June 2012, Kyoto, Japan.*
  18. Nakamura, Y, Yamashita, T, Kaku, M., Kuroki, O., **KANTOUSH, S. A.**, Okabe, T., Sumi, T., Temmyo, T, and \*\*Meshkati-Shahmirzadi, M. E. (2012). A Method of Sediment Transportation by Special Ejector Pump System in the Dam Reservoir, *International Symposium on Dams for Changing World, ICOLD2012, 5-8 June 2012, Kyoto, Japan.*
  19. **KANTOUSH, S. A.**, Saber, M., Sumi, T., Elshennawy, I, Aziz, M., Senousy, M., Awad, H. and Sefelnaser, A., (2012). Strategy for Integrated Flash Flood Management and Preventive Measures by Flood Mitigation Dams in Egypt, *International Symposium on Dams for Changing World, ICOLD2012, 5-8 June 2012, Kyoto, Japan.*
  20. **KANTOUSH, S. A.**, (2011). Challenges for water sharing in the Nile basin: Evaluate impact of constructed and planned dams in the Nile Basins Countries on water and sediment management, *TWAS-ARO 7th Annual Meeting Water, Nuclear and Renewable Energy: Challenges Versus Opportunities, 28 - 29 December 2011, Alexandria, Egypt.*
  21. \*\*Meshkati-Shahmirzadi, M. E., Sumi, T., **KANTOUSH, S. A.**, and, Temmyo, T., 2011. “The effect of air injection on sediment transport efficiency in ejector pump dredger system”, 13th JSCE International Summer Symposium, August 26, 2011, at Kyoto University.
  22. Okumura, H., Sumi, T., and **KANTOUSH, S. A.**, 2011. “Reservoir sedimentation management in hydropower station considering properties of sedimentation and facility condition”, International Symposium on Modern Technologies and Long-term Behavior of Dams, Zhengzhou, China, September, 27-29th, 2011.
  23. \*\*Meshkati-Shahmirzadi, M. E., Sumi, T., and **KANTOUSH, S. A.**, 2011. “Echo-Friendly Adaptation Design for Stilling Basin of Masudagawa Flood Mitigation Dam”, the international symposium on urban flood risk management, 21-23 September, 2011, Graz, Austria.
  24. Sumi, T., **KANTOUSH, S. A.**, and Shirai, A., 2011. “Worldwide Flood Mitigation Dams: Operating and Designing Issues”, the international symposium on urban flood risk management, 21-23 September, 2011, Graz, Austria.
  25. **KANTOUSH, S. A.**, and Sumi, T., 2011. “Sediment replenishing measures for revitalization of Japanese rivers below dams”, 34th IAHR Biennial Congress, Brisbane, Australia.
  26. Sumi, T., and **KANTOUSH, S. A.**, 2011. “Comprehensive sediment management strategies in Japan: sediment bypass tunnels”, 34th IAHR Biennial Congress, Brisbane, Australia.
  27. **KANTOUSH, S. A.**, Sumi, T., Kojiri, T., \*\*Saber, M., Elshennawy, I, Awad, H. and Sefelnaser, A. 2011. “JE-HydroNet: modern methodologies for the management, monitoring and planning of integrated water resources in the Nile delta of Egypt”, 34th IAHR Biennial Congress, Brisbane, Australia.
  28. \*\*Meshkati-Shahmirzadi, M. E., Sumi, T., **KANTOUSH, S. A.**, Dehghani, A. A. and Emamgholizadeh, S., 2011. “Evaluating the capability of Adaptive Neuro-Fuzzy Inference System to predict of flushing half-cone volume in reservoirs, 34th IAHR Biennial Congress, Brisbane, Australia.

29. Sumi, T. and **KANTOUSH, S. A.**, 2011. "Sediment management strategies for sustainable reservoir", 79th Annual meeting of ICOLD, Lucerne, Switzerland.
30. **KANTOUSH, S. A.**, Sumi, T., Kubota, A., 2010. "Geomorphic response of rivers below dams by sediment replenishment technique", International Conference on Fluvial Hydraulics, River Flow 2010 Braunschweig, Germany, ISBN 978-3-939230-00-7, pp. 1155-1163.
31. Sumi, T. and **KANTOUSH, S. A.**, 2010. "Stochastic sediment deposition processes of large reservoirs in Japan", 11th Int. Sympo. on River Sedimentation (ISRS), South Africa, pp. 1-11.
32. **KANTOUSH, S. A.**, Sumi, T., \*\*\*Suzuki, T., Murasaki, M., 2010. "Impacts of sediment flushing on channel evolution and morphological processes: Case study of the Kurobe River, Japan", International Conference on Fluvial Hydraulics, River Flow 2010 Braunschweig, Germany, ISBN 978-3-939230-00-7, pp. 1165-1173.
33. Sumi, T. and **KANTOUSH, S. A.**, 2010. "Integrated management of reservoir sediment routing by flushing, replenishing, and bypassing sediments in Japan river basins", 8th International Symposium on Eco-Hydraulics (ISE 2010), COEX, Seoul, Korea, pp. 651-673.
34. **KANTOUSH, S. A.**, Sumi, T., Kubota, A., and Suzuki, T., 2010. "The impacts of sediment replenishment below dams on flow behaviour and bed morphology of river channel and river mouth", 1st International Conference, Coastal Zone management (CZMRD LLC), River Deltas and Low Land Coastlines, Alexandria, Egypt, pp. 815-835.
35. **KANTOUSH, S. A.**, and Sumi, T., 2010. "Influence of stilling basin geometry on flow pattern and sediment transport at flood mitigation dams", 9th FISC, The Federal Interagency Sedimentation Conferences, Las Vegas, Nevada, pp. 115-133.
36. De Cesare G., Ribeiro J. M., **KANTOUSH, S. A.**, and Federspiel M. P. E. A., (2010). River intake and desander efficiency testing on a physical model using UVP and LSPIV, *Proc. of the seventh International Symposium on Ultrasonic Doppler Methods for Fluid Mechanics and Fluid Engineering, 7th ISUD*, editors: Wiklund J., Levenstam Bragd E. and Manneville S., 7-9 April 2010, Gothenburg, Sweden, ISBN: 978-91-7290-292-3, pp. 47-50
37. Camnasio E., De Cesare, G., and **KANTOUSH, S. A.**, (2010). Flow field and sediment deposition in a rectangular shallow reservoir with non -symmetric inlet and outlet configuration, *Proc. of the seventh International Symposium on Ultrasonic Doppler Methods for Fluid Mechanics and Fluid Engineering, 7th ISUD*, editors: Wiklund J., Levenstam Bragd E. and Manneville S., 7-9 April 2010, Gothenburg, Sweden, ISBN: 978-91-7290-292-3, pp. 53-56
38. **\*KANTOUSH, S. A.**, and Sumi, T., The impacts of sediment replenishment below dams on flow behaviour and bed morphology of river channel and river mouth, *First International Conference, Coastal Zone management, River Deltas and Low Land Coastlines, Alexandria, Egypt, 6-10 March 2010*.
39. **\*KANTOUSH, S. A.**, and Sumi, T., Influence of stilling basin geometry on flow pattern and sediment transport at flood mitigation dams, *9th FISC, The Federal Interagency Sedimentation Conferences, Riviera Hotel, Las Vegas, Nevada, June 27 to July 1, 2010*.
40. **\*KANTOUSH, S. A.**, and Sumi, T., Reservoir sediment excavation management and sediment replenishment below dams, *International Conference on Fluvial Hydraulics, River Flow 2010, Technische Universität Braunschweig, Germany, 8-10 September 2010*.
41. **\*KANTOUSH, S. A.**, and Sumi, T., Impacts of sediment flushing on channel evolution and morphological processes: Case study of the Kurobe River, Japan, *International Conference on Fluvial Hydraulics, River Flow 2010, Technische Universität Braunschweig, Germany, 8-10 September 2010*.



42. T. Sumi, and **KANTOUSH, S. A.**, Stochastic Sediment Deposition Processes Of Large Reservoirs In Japan, *11th International Symposium on River Sedimentation (ISRS), South Africa, at the University of Stellenbosch (near Cape Town), 6 - 9 September 2010.*
43. T. Sumi, and **KANTOUSH, S. A.**, Sediment Management Strategies for Sustainable Reservoir, *79th Annual meeting of ICOLD, Lucerne, Switzerland, June 2011.*
44. T. Sumi, and **KANTOUSH, S. A.**, Integrated Management of Reservoir Sediment Routing by Flushing, Replenishing, and Bypassing Sediments in Japan River Basins, *8th International Symposium on ECOHYDRAULICS (ISE 2010), COEX, Seoul, Korea, 12-16 September 2010.*
45. Martin B., Jolanda J., **KANTOUSH, S. A.**, and Boillat, J.-L., (2009), Large scale particle image velocimetry applications for complex free surface flows in river and dam engineering, *33rd IAHR Congress Proc., British Columbia, Vancouver, 9-14 August, 2009.*
46. Pereira, S.C., J.-L. Boillat, **KANTOUSH, S. A.**, and Meile, T., (2008), Deflectors as riverbanks protection measures, *IAHR Proc. of the International Conference on Fluvial Hydraulics, Izmir, Turkey, September 3 -5, 2008.*
47. \***KANTOUSH, S. A.**, and Schleiss, A. J., (2008), Optical backscatter technique (OBS) for suspended sediment concentration measurement in shallow reservoir, *IAHR Proc. of the International Conference on Fluvial Hydraulics, Izmir, Turkey, September 3 -5, 2008.*
48. Amini, A., **KANTOUSH, S. A.**, and Schleiss, A. J., (2008), Velocity field measurements in the vicinity of an oil spill barrier using LSPIV method, *IAHR Proc. of the International Conference on Fluvial Hydraulics, Izmir, Turkey, September 3 -5, 2008.*
49. Bombar, G., **KANTOUSH, S. A.**, and Albayrak, I., (2008), Comparison of ADV and UVP in terms of velocity and turbulence measurements in a uniform flow, *IAHR Proc. of the International Conference on Fluvial Hydraulics, Izmir, Turkey, September 3 -5, 2008.*
50. \***KANTOUSH, S. A.**, J.-L. Boillat and A. J. Schleiss, (2008) Channel Formation in Large Shallow Reservoirs with Different Geometries during Flushing, *keynote lecture delivered at International Symposium on Sediment Management, Lille, France.*
51. **KANTOUSH, S. A.**, Benjamin Dewals, Sébastien Erpicum, Anton Schleiss and Michel Piroton, (2008), flow in shallow rectangular basins: experimental study and 2D numerical simulations, *8th International Conference on Hydro-Science and Engineering (ICHE-2008), Nagoya, Japan*
52. **KANTOUSH, S. A.**, A. J. Schleiss and H. Balzerek, (2007). Evaluation of MiniEcho Sounder measurements to estimate sediment thickness in shallow reservoirs. *Hydraulic Measurements & Experimental Methods Conference (HMEM 2007), (EWRI of ASCE) & (IAHR), Lake Placid, NY, USA.*
53. **KANTOUSH, S. A.**, J.L. Boillat and A. J. Schleiss, (2007). Economical large scale PIV-measurements at the surface of different shallow reservoir geometries. *Hydraulic Measurements & Experimental Methods Conference (HMEM 2007), (EWRI of ASCE) & (IAHR), Lake Placid, NY, USA.*
54. A. Amini, **KANTOUSH, S. A.**, B. Rosier, M. Geiges, and A. J. Schleiss, (2007). Large reservoirs and greenhouse gas emissions – A network thinking analysis. *14th German Dam Symposium and the 7th ICOLD European Club Dam Symposium, Munich, Germany.*
55. **KANTOUSH, S. A.**, J.L. Boillat and A. J. Schleiss, (2007). Evolution of sediment deposition and flow patterns in a rectangular shallow reservoir under suspended sediment load, *5th IAHR symposium on river, coastal and estuarine morphodynamics, University of Twente, The Netherlands.*

56. **KANTOUSH, S. A.** and A. J. Schleiss, (2007). Evolution of sediment deposition and flow patterns in shallow reservoir: experimental study. *10th International Symposium on River Sedimentation, Moscow, Russia.*
57. \***KANTOUSH, S. A.**, Symmetric or asymmetric flow patterns in shallow rectangular basins with sediment transport. *32nd Congress of IAHR, John F. Kennedy student competition, 1-6 July, 2007, Italy.*
58. \***KANTOUSH, S. A.**, E. Bollaert and A. J. Schleiss, (2007). Influence of the width of a rectangular shallow reservoir on sedimentation behaviour and trap efficiency. *32nd Congress of IAHR, Special session of reservoir sedimentations, 1-6 July, 2007, Venice, Italy.*
59. M. Leite Ribeiro, J.-L. Boillat, **KANTOUSH, S. A.**, C. Albalat, F. Laugier and A. Lochu, (2007). Rehabilitation of St-Marc dam Model studies of spillways. *Hydro2007, Granada, Spain.*
60. H. Moukhliiss, G. De Cesare, **KANTOUSH, S. A.** and A. J. Schleiss (2006). Et si les crues de l'Arve rejoignaient le Léman? *Congres Du Rhône, 15-16 Juin, Genève, Switzerland.*
61. **KANTOUSH, S. A.**, Bollaert, E.F.R., Boillat, J.-L., Schleiss, A.J. (2006). Sedimentation processes in shallow reservoirs comparison of numerical and experimental simulations. *Proc. of 7th International Conference on HydroScience and Engineering, September, Philadelphia, USA.*
62. \***KANTOUSH, S. A.**, Bollaert, E.F.R., Boillat, J.-L., Schleiss, A.J., Uijtewaal, W.S.J., (2006). Experimental study of suspended sediment transport and deposition in a rectangular shallow reservoir. *IAHR Proc. of the International Conference on Fluvial Hydraulics, Lisbon, Portugal, Taylor & Francis Group, London, ISBN 0-415-40815-6 ,pp.1623-1631.*
63. **KANTOUSH, S. A.**, Bollaert, E.F.R., Boillat, J.-L., Schleiss, A.J., (2006). Experimentelle Studie von Schwebstofftransport und -absetzung in einem rechteckigen Flachwasserbecken. *Proc. Symposium Graz, 27-30 september 2006, Schriftenreihe zur wasserwirtschaft, Technische Universität Graz, ISBN 3-902465-50-6, 46/2, pp. 136-150.*
64. **KANTOUSH, S. A.**, Bollaert, E., Boillat, J.L., and Schleiss, A.J., (2006). Physical Processes of the Suspended Sediment Deposition and Sediment Transport in Shallow Reservoirs. Abstract, *17th International Sedimentological Congress, Fukuoka Japan, 0-138.*
65. \***KANTOUSH, S. A.**, Erik Bollaert, Giovanni De Cesare, Jean-louis Boillat and Anton Schleiss, (2006). Flow Investigation in a Rectangular Shallow Reservoir Using UVP, LSPIV and Numerical model. *Proceeding of the 5th International Symposium on Ultrasonic Doppler Methods for Fluid Mechanics and Fluid Engineering. ETH Zurich, Switzerland, ISBN 3-905609-29-0, pp. 129-133.*
66. \***KANTOUSH, S. A.**, Bollaert, E., Boillat, J.L., and Schleiss, A., (2005). Suspended Load Transport in Shallow Reservoirs. *Final Proc. XXXI IAHR Congress. Korea Water Resources Association, Seoul, South Korea, 1787-1799.*
67. **KANTOUSH, S. A.**, Bollaert, E.F.R., Boillat, J.-L., Schleiss, A.J. (2005). Sedimentation Processes in Shallow reservoirs with different geometries. *Proc. of 8th International Conference on Fluvial Sedimentology, Delft, The Netherlands.*
68. \***KANTOUSH, S. A.**, A. J. Schleiss, H.M. Nagy, K. Watanabe; (2004) Numerical Investigation of the Flooding Problem for the Costal Drainage System in Egypt. *ISLT Proc., Thailand, pp. 4461-466.*
69. \***KANTOUSH, S. A.** and K. Watanabe, (2003). Evaluation of the Shallow Lake Effect on the Drainage System in the Delta Area of Egypt. *Japan Society for Civil Engineering, Kita Kyusho, Japan*

- 70.\***KANTOUSH, S. A.**, H.M. Nagy and K. Watanabe, (2004). Modelling for flood prevention for the coastal area of the Nile Delta in Egypt. *Annual conference of Japan society for civil engineering, 16-18 March 2004, Kumamoto University, Kumamoto, Japan.*
- 71.\***KANTOUSH, S. A.**, H.M. Nagy and K. Watanabe, (2003). A modelling System for Design and Operation of Dendritic Channel Networks in Nile Delta of Egypt. *XXXth IAHR Congress, Thessaloniki, Greece.*
- 72.\***KANTOUSH, S. A.**, H. M. Nagy and K. Watanabe, (2003). Evaluation of the Drainage Management by Hydraulic Modelling in the Coastal Area of Egypt. *XXXth IAHR Congress, Thessaloniki, Greece.*
- 73.\***KANTOUSH, S. A.** and K. Watanabe, (2002). Improvement Strategy of Irrigation System in Nile Delta of Egypt. *Japan Society of Civil Engineering conferences JSCE, Saga, Japan.*
- 74.\***KANTOUSH, S. A.**, H.M. Nagy and K. Watanabe, (2002). Numerical Analysis for Tree Type Channel Network in Delta of the Nile River. *International Symposium on Lowland Technology, ISLT Proc., Saga, Japan.*
- 75.\***KANTOUSH, S. A.**, H. M. Nagy and K. Watanabe (2002) Calibration of Dynamic Unsteady Flow Model for Flood Routing in Drainage Networks. *Role of Engineering towards Better Environment conference, Alexandria University, Fac. of Engineering, Alexandria, Egypt.*

### **Presentations at technical meetings and conferences (43)**

- 1 To 75 presentations at the above mentioned conferences
- 76.\***Kantoush, S. A.**, Sumi, T., 2010. "Reservoir sedimentation management in Nile river basin and lessons from Japanese experiences", The First JE-HydroNet Symposium on the Nile River System and the Delta of Egypt, October 26, Uji campus, Water Resources Research Center, Disaster Prevention Research Institute, Kyoto University, Japan, PP. 201-221.
- 77.\***Kantoush, S. A.**, 2010. "Comprehensive Management Strategies on Sediment Routing System and Reservoir Sedimentation Management", Civil Engineering Department, Saga University, Saga, Japan.
- 78.\***Kantoush, S. A.**, 2010. "River flow and morphological patterns in the river basin management", National Water Research Center, Ministry of Water Resources and Irrigation, Egypt.
- 79.\***Kantoush, S. A.**, 2009. "Experimental study on the influence of the geometry of shallow reservoirs on flow patterns and sedimentation by suspended sediments", River experts and professors meeting, Invited speaker, Kyoto.
- 80.\***Kantoush, S. A.**, 2009. "Reservoir sedimentation and sediment management: some pieces of the puzzle", WRRRC workshop, Disaster Prevention Research Institute, Kyoto University, Japan.
- 81.\***Kantoush, S. A.**, 2007. "Laboratory and field applications by using Large Scale Particle Image Velocimetry", Workshop of road-show flow velocity and turbulence measurement, DANTEC Dynamics, June 2007, Zurich.
- 82.\***Kantoush, S. A.**, 2006. "Suspended sediment transport and deposition in a rectangular shallow reservoirs", Master course presentation IAHR International Conference on Fluvial Hydraulics, Lisbon, Portugal.
- 83.\***Kantoush, S. A.**, 2003. "Flood prevention and water management for the channel network of Nile Delta Egypt", Short course presentation for the integrated river and coastal zone management, 22-23 August 2003, Aristotle University of Thessaloniki, Greece.

### **Invited Speaker and Oral Contribution to Workshop**

1. Integrated Water Resources and Environmental Management for Asian and African Mega deltas under climate change, 26 May 2013, National Water Resources Research Center (NWRC), Egypt.
2. Integrated Sediment Management in Nasser Lake, 4th of March 2013, Nile Research Institute (NRI), NWRC, Elqanater, Egypt.
3. ENTRO - N CORE Workshop, Addis Ababa, Ethiopia, February 24-25, 2013.

4. The 5th ENPM regional workshop, December 8 -10, 2012, Hilton Pyramids Golf Resort Dreamland, El - Wahat Road, 6th Of October City, Egypt
5. Sustainable Management of River Basin and Reservoirs, 2012, The German University in Cairo, DAAD Workshop of Innovative Methodologies and Technologies for Sustainable Communities, October 2012, GUC, Egypt.
6. Reservoir Sedimentation Management in the Nile River Basin and Integrated Development Project of Lake Nasser, The Second JE-HydroNet Symposium on the Nile River System and the Delta of Egypt 20-21 March 2012, The German University in Cairo, New Cairo, Egypt.
7. 6th Regional ENPM Workshop, Juba, South Sudan, 22nd-23rd December, 2012
8. The workshop of Eastern Nile Planning Model (ENPM) Project, A Concept Note for First National Workshop in Egypt, Alexandria, Egypt, 9-12 July 2012.
9. Symposium on Water management and Agricultural Production in Egypt-Present and Future-, Marriott Hotel, Zamalek, Cairo, 16-17 July 2012.
10. The First Global Summit of Research Institutes for Disaster Risk Reduction, Kyoto University, Japan, 2012.
11. The first ENTRO workshop, Awareness of ENTRO Collaboration with Egyptian Academic Institutions, Cairo University, 8-9 April, 2012
12. Comprehensive Management Strategies on Sediment Routing System and Reservoir Sedimentation Management, 30th of April 2010, Civil Engineering Department, Saga University, Saga, Japan.
13. Invited speaker, Experimental study on the influence of the geometry of shallow reservoirs on flow patterns and sedimentation by suspended sediments, River experts and professors meeting, 17th of April 2009, Kyoto.
14. Kantoush, S. A., Sumi, T., 2010. "Reservoir sedimentation management in Nile river basin and lessons from Japanese experiences", The First JE-HydroNet Symposium on the Nile River System and the Delta of Egypt, October 26, Uji campus, Water Resources Research Center, Disaster Prevention Research Institute, Kyoto University, Japan, PP. 201-221.
15. Kantoush, S. A., 2010. "Comprehensive Management Strategies on Sediment Routing System and Reservoir Sedimentation Management", Civil Engineering Department, Saga University, Saga, Japan.
16. Kantoush, S. A., 2010. "River flow and morphological patterns in the river basin management", National Water Research Center, Ministry of Water Resources and Irrigation, Egypt.
17. Kantoush, S. A., 2009. "Experimental study on the influence of the geometry of shallow reservoirs on flow patterns and sedimentation by suspended sediments", River experts and professors meeting, Invited speaker, Kyoto
18. Reservoir Sedimentation and Sediment Management: some pieces of the puzzle, Water Resources Research Centre workshop, Disaster Prevention Research Institute, 16th of September 2009, Uji.
19. Invited speaker, Road show flow velocity- and Turbulence measurement, DANTEC Dynamics, June 2007, Zurich.
20. Suspended sediment transport and deposition in a rectangular shallow reservoirs, Master course presentation IAHR International Conference on Fluvial Hydraulics, 5 September 2006, Portugal.
21. Short course presentation for the integrated river and coastal zone management, 22-23 August 2003, Aristotle University of Thessaloniki, Greece.

## TEACHING

### Courses taught at The German University, Egypt

Water Resources Engineering, Environmental Engineering Science, Hydraulics, Introduction to Hydrology, Irrigation and Drainage Engineering.

### Courses taught at Kyoto University, Japan

River Basin Management of Flood and Sediment, Applied Hydrology, Open Channel Hydraulics, Sediment Management Techniques.

### Courses taught at Saga University, Japan

Open channels, Fluid mechanics and laboratory instructor (Teaching Assistant)

### Courses taught at Alexandria University, Egypt

Water resources, Hydraulics and Surveying (Instructor)

### Courses taught at Arab Academy University, Egypt

Water Resources Engineering CB 382, Irrigation & Drainage CB 483, and Construction Surveying 1&2 (CB 271& CB 573) (Instructor)

## RESEARCH SUPERVISION

### *PhD. Students (Committee member)*

Name	University	Year of Completion	Research Topic
Esraa Hosney Ouda	Alexandria University	2016	Impacts of Newly Constructed Dams in Eastern Nile Basin on Nasser Lake
Ghaidaa Yousef	Alexandria University	2015	Integrated River Basin Management and Sediment Management Technique
Taymaz Esmaeili	Kyoto University	2014	Three-dimensional numerical modeling of sediment flushing in reservoirs: Case study of the Dashidaira reservoir, Japan
Ali Atef Yousef Ali	EJUST Environmental Engin.		Restore Rosetta shoreline by Sediment Replenishment Technique
A. Kamal	Kyoto University	2013	Numerical modeling of groundwater system in the Nile Delta and its application to climate change impact assessment
M. Meshkati	Kyoto University	2013	Eco-Friendly Hydraulic Design Of In-Ground Stilling Basin For Flood Mitigation Dams

### *PhD. Students (Co-supervisor)*

Name	University	Year of Completion	Research Topic
Camnasio Erica	Politecnico di Milano and EPFL	2011	Experimental study on the influence of different hydraulic parameters on flow patterns and sedimentation by suspended sediments in shallow reservoirs geometries

*MSc. Students*

Name	University	Year of Completion	Research Topic
T. Suzuki	Kyoto University	Feb. 2011	Numerical and field study of sediment replenishment effects on the spawning environment of sweet fish (Ayu fish) in Tenryu River, Japan.
S. Cajot	EPFL/Kyoto University	August 2011	Reservoir Sediment Management by using Sediment Replenishment in Japanese Rivers: Nunome and Muro Dams
J. Naito	Kyoto University	2012	Organic Matter sources in reservoirs ecosystem according to progress of reservoir sedimentation
K. Nakai	Kyoto University	2012	Studies on management of riverbed geomorphology for restoration of reservoir dam impacts on tail water ecosystem
R. Moser	LCH, EPFL	2008	Numerical and Experimental Study of a Low Cost Drip Irrigation System for Burkina Faso
J. da Silva	LCH, EPFL	2006	Modeling of dam breach and levee breach processes
S. Cajot	EPFL/Kyoto University	August 2011	Reservoir Sediment Management by using Sediment Replenishment in Japanese Rivers: Nunome and Muro Dams, Field and numerical study
H. Moukhliiss	LCH, EPFL	2005	Feasibility study of Arve River flood diversion

*Research Experience for BSc and Undergraduate Students (Mentor)*

Student	University	Year of Completion	Research Topic
J. Naito	Kyoto University	2010	Change of Organic Matter sources in reservoirs ecosystem according to progress of reservoir sedimentation
K. Nakai	Kyoto University	2010	Studies on management of riverbed geomorphology for restoration of reservoir dam impacts on tail water ecosystem
K. Yamashita	Kyoto University	2010	3D numerical simulation for various shallow reservoir geometries, and impacts on flow patterns
M. Federspiel M. Lachenal	LCH, EPFL	2004	Etude sur modèle d'un ouvrage de contrôle des crues. Etape 1 : Collecteur de La Paz Bolivie
L., Hermenjat S. Barth	LCH, EPFL	2004	Pré-Etude d'un système d'irrigation à Guinkouma
Ganour Karim	EPFL	2005	Etude d'un système d'irrigation pour le Burkina Faso
M. Aviles N. Crettenand	LCH, EPFL	2006	Projet d'irrigation pilote du centre agronomique de Guinkouma (Burkina Faso)
F. Blasi, R. Moser C. Sauthier	LCH, EPFL	2007	Projet d'irrigation Guinkouma (Burkina Faso)

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## PROFESSIONAL SERVICE

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### German University in Cairo

- Member, Civil Engineering Undergraduate Program Committee, 2011-present
- Technical Advisor, Together Everyone Achieves More Association (TEAM) Students clubs (for reducing the gap between education, research and university).
- Supervisor of the Advising committee, Civil Engineering Department (2011-2013)
- Member, Review Committee for the German University in Cairo (2012-2013)

### Kyoto University

- Member, Japan Egypt Committee, 2009-2011
- Advisor, Egyptian students in Japan Association, 2010-2011.
- Coordinator, Global 30 committee to promote undergraduate students from Egypt to be enrolment in the Civil Engineering Department.

### National

- Member of the Board of Directors of River Transport Authority, Ministry of Transportation, Egypt.
- Member of Egypt National Committee of Large Dams (ENCOLD), Ministry of Water Resources and Irrigation.
- Emararet El-Insan Foundation, Speeches information session about HYDROPONIC ENVELOPE, Architecture Engineering Program, in collaboration with Schaduf Urban Microfarms.
- Technical Report governmental consultancies for Ministry of Foreign Affairs and Ministry of Water Resources and Irrigation, Raising concerns about Blue Nile cascade dams: Dam Impacts on Egypt during filling stage, operating strategies, and reservoir sedimentations for Coordinator General for Nile Basin Countries and Nile Water.

### International

- Session Chair, Reservoir sedimentation, International Symposium of ISRS 2013, Japan.
- Session organizer, River Flow Conference on Fluvial Hydraulics, Lisbon, Portugal, 2006.
- Session organizer, International Symposium on Lowland Technology, ISLT, Saga, Japan, 2002
- Symposium Organizer, the 2nd JE-HydroNet Symposium, The German University in Cairo, Egypt, 2011
- Member, International Scientific Advisory Committee, River Flow 2014, Lausanne, Switzerland, 2014
- Member, International Scientific Advisory Committee, 5th Conference on Earthquake Resistant Engineering Structures, Bologna, Italy, 2007
- Member, International Scientific Advisory Committee, 10th International Conference Structural Repairs and Maintenance of Heritage Architecture, Prague, Czech Republic, 2007
- Technical paper reviewer for ICOLD, ISRS, JE-HydroNet symposium, Disaster Prevention Journal

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## PROFESSIONAL DEVELOPMENT

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### Professional Development Workshops

- Innovative Methodologies and Technologies for Sustainable Communities, <http://www.guc.edu.eg/Events/EventDetails.aspx?eventID=91>
- Regional opportunity, global sustainability and innovation in the aviation sector conference.

### Reviewer of Technical Papers

- International Journal of Hydrology Science and Technology (IJHST)
- Journal of Water Resources Research
- Journal of Environmental Fluid Mechanics, EFMC.
- Journal of Flow Measurement and Instrumentation.
- 7th International Conference on Hydroscience and Engineering (ICHE-2006), Philadelphia, USA, September 10 to 13, 2006.
- International Symposium on Dams for Changing World, ICOLD2012, 5-8 June 2012, Kyoto, Japan.

### Scientific Committees

- Member of organizing committee of Japan-Egypt Hydro Network Symposium on the Nile River System and the Delta of Egypt, Uji, Kyoto University, Japan, October 24-26, 2010.
- Member, Symposium of flood mitigation dams in Austria and Japan, WEC, Tokyo, August 25, 2010.
- Member of editorial board, Journal of Water Sciences Research, 2010.
- Member, 4th International Conference on Role of Engineering towards Better Environment, 2002, Alexandria, Egypt.
- Member, International Scientific Advisory Committee, 10th International Conference Structural Repairs and Maintenance of Heritage Architecture, Prague, Czech Republic, 2007
- Member of organizing committee of the 9th IHP Training course, International Hydrological Programme IHP, Water resources and water related disasters under climate change, Uji campus, Kyoto University, Japan, November 29- December 12, 2009.

### Technical Membership

- **Member** of the Japan Society of Civil Engineers (JSCE) (2001-2012)
- **Member** of the Syndicate of Engineers, Egypt (1997-present)

### Attended Workshops

- Symposium of "Rhône-Thur - sustainable use of Rivers", Mesures d'aménagement des cours d'eau pour la protection contre les crues, l'environnement, la société et l'économie, Lausanne, Novembre 7, 2007.
- Habitatology workshop and training of in situ method for collecting Particulate Organic Matter (POMs), benthic animals samples for stable isotopic analysis, Urashima, Japan, May 13-14, 2009.
- Advances in River Engineering, Tokyo University, Japan, June 11-12, 2009.
- Human Engineering for Asian Megacities, HSE, Wood Hall, Kyoto University, Uji, August 25, 2009.



- General Civil Engineering Conference of JSCE, Fukuoka University, Fukuoka, Japan, August, 2009.
- Inaugural symposium of GCOE program on Sustainability/Survivability Science for a Resilient Society Adaptable to Extreme Weather Conditions, Obaku Plaza, Kyoto University, Japan, January 12-13, 2010.
- The 2nd Scientific and Educational Workshop of GCOE-ARS program, DPRI, Kyoto University, Japan, 23 August, 2010.
- International Symposium on water Resources Management and Legal System, Towards the implementation of integrated water management system, wood composite Hall, Kyoto University, Uji, August 26, 2010.
- The 4th Seoul National University- Kyoto University Joint Seminar on Water Resources, Kyoto University, Japan, September 18, 2010.
- International Symposium of Advanced Energy Science, Zero Emission Energy System, Uji campus, Kyoto University, Japan, November 18-19, 2010.
- The Second Arab Water Forum, Cairo, Egypt, 20-23 November 2011.
- Integrated Water Resources and Environmental Management for Asian and African Mega deltas under climate change, 26 May 2013, National Water Resources Research Center (NWRC), Egypt.
- Integrated Sediment Management in Nasser Lake, 4th of March 2013, Nile Research Institute (NRI), NWRC, Elqanater, Egypt.
- ENTRO - NCORE Workshop, Addis Ababa, Ethiopia, February 24-25, 2013.
- The 5th ENPM regional workshop, December 8 -10, 2012, Hilton Pyramids Golf Resort Dreamland, El - Wahat Road, 6th Of October City, Egypt
- 6th Regional ENPM Workshop, Juba, South Sudan, 22nd-23rd December, 2012
- The workshop of Eastern Nile Planning Model (ENPM) Project, A Concept Note for First National Workshop in Egypt, Alexandria, Egypt, 9-12 July 2012.
- Symposium on Water management and Agricultural Production in Egypt-Present and Future-, Marriott Hotel, Zamalek, Cairo, 16-17 July 2012.
- The First Global Summit of Research Institutes for Disaster Risk Reduction, Kyoto University, Japan, 2012.
- The first ENTRO workshop, Awareness of ENTRO Collaboration with Egyptian Academic Institutions, Cairo University, 8-9 April, 2012.

### **International Collaborations and Field Trips**

- Workshop between Japanese and European counterparts of Tagliamento research project, Studies on formation mechanisms of biodiversity on the pristine floodplain of Tagliamento River and their application to environmental assessment of river ecosystems, Pinzanno, Italy, July 18-20, 2009.
- Field trip to study the Austrian flood mitigation dams, and cooperation with Prof. Helmut Knoblauch from Hydraulic Engineering and Water Resources Management, Graz University of Technology, Graz, Austria, July 22-23, 2009.

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### **PERSONAL DATA**

- Born 3 January 1974, Citizen of Egypt
- Married and have two child

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### **LANGUAGE SKILLS**

- Arabic native speaking, excellent in English, Good working knowledge of French, Good working knowledge in Japanese.

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### MISCELLANEOUS

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- Interest and leisure activities yesterday, today and tomorrow: History (reading), travelling, meeting people and knowing new cultures, rivers and dam (reading), sport (volleyball).
- President of reunion project of Egyptian graduates and current students at Kyoto University.
- Coaching of Egyptian student community at Kyoto, Japan.

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### LIST OF REFERENCES

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- Prof. Tetsuya SUMI, Professor of Civil Engineering and director of the Laboratory of Socio and Eco Environment Risk Management, Disaster Prevention Research Institute, Water Resources Research Centre, Kyoto University, Gokasho, Uji, Kyoto 611-0011, Tel : +81 774-38-4307, Fax : +81 774-38-4040, e-mail: [sumi.tetsuya.2s@kyoto-u.ac.jp](mailto:sumi.tetsuya.2s@kyoto-u.ac.jp),
- Prof. Anton SCHLEISS, Director of the Laboratory of hydraulic constructions LCH, Swiss Federal Institute of Technology EPFL, 1015 Lausanne Station 18, Switzerland, Tel. +41 21 693 23 82, Fax. +41 21 693 22 64, e-mail: [anton.schleiss@epfl.ch](mailto:anton.schleiss@epfl.ch);
- Prof. Kunitoshi Watanabe, Professor of Civil Engineering, Civil Engineering Department, Faculty of Engineering, Saga University, Saga, Honjo Machi, Japan. Tel: +81-952-28-8685, Fax: 0081-952-28-8699, e-mail : [watak@cc.saga-u.ac.jp](mailto:watak@cc.saga-u.ac.jp)
- Prof. Dr. Yasuhiro TAKEMON, Professor of Ecohydraulics and Habitatology, Water Resources Research Center, Disaster Prevention Research Institute, Kyoto University, Gokasho, Uji 611-0011, Japan, e-mail: [takemon.yasuhiro.5e@kyoto-u.ac.jp](mailto:takemon.yasuhiro.5e@kyoto-u.ac.jp)
- Prof. Rawya M. Kansoh, Director, Development of Educational Resources Fund (DERF), Professor of Hydraulics and Water Resources, Faculty of Engineering, Alexandria University, Alexandria, Egypt, Former United Nations Water Expert, Tel : +203 - 5925557/58/59 Ext.2108, Fax: +203 - 592-1853, Mobile: +2012-2383717, E-mail: [rkansoh@yahoo.com](mailto:rkansoh@yahoo.com)