

1. Personal Information:

Family Name: Radwan
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2. Current position:

Assistant Professor, Irrigation & Hydraulics Department, Faculty of Engineering, Cairo University

3. Education:

Institution [Degree Date]	Degree(s) or Diploma(s) obtained
Cairo University December 2011	Ph.D. in Irrigation & Hydraulics " Design Program for Integrated Improved Farm Irrigation System in Old Lands of Delta, Egypt"
Cairo University July 2007	M.Sc. in Irrigation & Hydraulics " Developing an Analytical Program for Solving the Analytical Equations for Fully/Partially Penetrating Wells, using Matlab Program"
Cairo University July 2001	B.Sc. in Civil Engineering Distinction, First Grade of Honor

4. Language Skills

Language	Reading	Speaking	Writing
Arabic	Mother tongue		
English	Excellent	Excellent	Excellent
French	Fair	Fair	Fair

5. Computer Skills:

- VISUAL MODFLOW, (Groundwater Simulation Model), *excellent*.
- GROUNDWATER MODELING SYSTEM (GMS), *excellent*
- MATLAB, *excellent*
- AUTOCAD 3-D, *excellent*.

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- AUTOCAD 2-D, *excellent*.
- Famous MICROSOFT Packages (Spreadsheets, Database and Word Processing Applications etc.) *excellent*
- Photoshop CS2, good.

6. Other Skills

- Excellent talent in drawing & designing.

7. Engineering Experience

No#	Date from - Date to	Country	Employer
7.1	Aug.2017–Mar. 2018	EGY	<i>NILE Consultants- Maadi- Cairo</i>
	<p><i>Nile Consultants office is under the supervision of Prof. / Mohamed Nasr Eldeen Allam (Pervious minister of the Ministry of Water Resources and Irrigation (MWRI) in Egypt).</i></p> <ul style="list-style-type: none">- I work on project under title” Quality Control of Civil Works and Pumping Equipment” for Irrigation System Improvement in the Projects’ Command Areas in Beni -Sueif and Minya Governorates” with the client Ministry of Agriculture and Land Reclamation, Projects Management Unit (PMU), National Project Coordination Unit (NPCU)- During this project I will be responsible for the technical part of the project related to checking the presented design of improved on-farm irrigation system in Minya Governorate (4300 feddan), and Beni-Suief Governorate (3500 feddan) before the construction process.		
7.2	Nov.2014 -Now	EGY	<i>Dar Al-Handasah (Shair and Partners)- Smart Villages</i>
	<p>During my work in Dar Al-Handasah, I worked in many projects such as:</p> <ul style="list-style-type: none">➤ <i>Flood protection of Al-Madinah project (Saudi Arabia):</i><ul style="list-style-type: none">- Prepare the strategic master plan for flood protection of Al-Madinah in Saudi Arabia, and prepare the corresponding hydrological report to be presented as a proposal to the client.➤ <i>Guidelines for Flood control structures in Al-Riyadh project (Saudi Arabia):</i><ul style="list-style-type: none">- Prepare the main guidelines for the design of suggested control structures of flood in Al-Riyadh (Saudi Arabia) (culverts, bridges, weirs, detention ponds, dams, pump stations,..)➤ <i>Water reserve schemes in Wamba basin, Namibe basins (Bero, Curoca, Carunjamba, Bentiaba, Girual, Inamangando basin), and Cuvelai Basin in Angola:</i><ul style="list-style-type: none">- Water resources master plan, feasibility study, concept designs and tender documents for the priority dams in addition to water transfer scheme from adjacent rivers (if required) were prepared for each basin.- Geological, hydrological, water demand studies were prepared in addition to site identification for all viable dams (to store more water to solve drought problem) in the basin taking into consideration the environmental considerations and economic analysis.- Developing the future phases for full development plan in each basin taking into consideration the existing and expected potential agriculture lands.- Developing water system balance, reliability analysis, benefit cost analysis for each proposed development phase.		

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7.3	May 2013 - Oct. 2014	EGY	Khatib & Alami Consultants Mohandeseen - Giza
<p>➤ I worked in the company in the hydrology department. I worked in a project concerns with the protection of Bridah city in Saudi Arabia from the flood. The protection begins with the calculation of the characteristics of rainfall, delineation of catchments, propose the suitable alignment for the drainage pipeline network system, modeling the network using Storm Cad model, and finally apply the optimization technique for the designed network. The main points in the project that i participated in are as follows:</p> <ul style="list-style-type: none"> - Planning, designing, and reporting of the rainfall drainage network system for two areas in Bridah city; Royal Palace area, and western inner ring road area. - Preparing the final strategic report for flood protection of Bridah area. 			
7.4	Nov 2012 – May 2013	EGY	NILE Consultants- Maadi- Cairo
<p>Nile Consultants office is under the supervision of Prof. / Mohamed Nasr Eldeen Allam (Pervious minister of the Ministry of Water Resources and Irrigation (MWRI) in Egypt).</p> <p>➤ The project that I worked on was to apply on-Farm Improved irrigation system for Governorates of Upper Egypt (Assiut / Sohag / Qena) with a total area of 16,000 feddan under the supervision of Projects Management Unit for On-Farm Irrigation Improvement - Ministry of Agriculture and Land Reclamation- IFAD.</p> <p>➤ My responsibilities are field visits to inspect the problems in the studied areas, review the design results, and reporting. The objectives of the project were planning, designing, and reporting of the improved on- farm Irrigation network (mesqa and marwa) in the following areas:</p> <ul style="list-style-type: none"> - EL Hammam Canal area - Fath and Abnoub Center- Assiut Governorate (5000 feddan). - Eastern Qeft’s Ganabia Canal area - Qeft Center - Qena Governorate (5000 feddan). - El_Kawamel Canal Area – EL_Monshaa and Sohag Centers - Sohag Governorate (6000 feddan). <p>➤ Design of the general layout of the improved on-farm irrigation system, tender documents (general conditions, specs, bill of quantities) and the estimated budget were prepared.</p>			
7.5	Nov 2005 – August 2010	EGY	MISR Consults Group Prof. Kamal Abo-Elhassan Ali Ibrahim.)
<p>➤ The work with Prof. Kamal Abo-Elhassan was divided into two branches; first type was in the design of pump stations, and second type was in the design of dewatering systems for solving the problem of rising groundwater table for some important areas.</p> <p><u>First: Design of pump stations</u></p> <ul style="list-style-type: none"> - Bousilia pump station at Aswan governorate. The pump station left water from Bousilia drain to the River Nile. The station contains 4 units plus one standby with design discharge of 1.48 m³/sec./unit with total head of 3.36 m. - Husinina pump station at Port Said governorate. The pump station left water from south Husinina drain to Bahr El Bakr drain. The station contains 4 units plus one standby with design discharge of 6.0 m³/sec./unit with total head of 5.45 m. - Hamool pump station at Kafr El Sheikh Governorate. The pump station left water from EL Gharbia drain to Bahr Tera canal. The station contains 3 units plus one standby with design discharge of 10.0 m³/sec./unit with total head of 2.30 m. - Elthawra pump station at Alexandria Governorate. The station contains 4 units plus one standby with design discharge of 5.5 m³/sec./unit with total head of 11.0 m. 			

	<p><u>Second: Design of Dewatering system</u></p> <p>➤ Participated in the design of dewatering system using Visual MODFLOW model for some important places as follows:</p> <ul style="list-style-type: none"> - Lowering groundwater table under Esna Temple in Qena Governorate by about 1.5 m from the existing situation using Visual Modflow Model especially that the floor of the temple is below the surrounding streets by about 8 m. The suggested solution was to dig four vertical wells around the temple with an average discharge 6 m³/hr/well. After achieving the project in the field, the results have achieved the required goals in a successful manner. - Lowering groundwater table at Ahnasia (Archaeological area) in Beni-Suef Governorate by 1.5 m from the existing situation using Visual Modflow Model. The suggested solution was to use about 41 vertical well with a constant discharge about 120 m³/day/well. - Lowering groundwater table at Mari-Mena (Archaeological area) in Alexandria Governorate by 5.5 m from the existing situation using Visual Modflow Model with a total area of 100 feddan. The suggested solution was to use about 120 vertical well around the studied area with average discharge of 150 m³/day/well. After achieving the proposed solution in the field, the results have achieved the required goals in a successful manner. - Lowering the existing groundwater table at Al Ashmonen (Archaeological area) in El Minya Governorate by 1.5 m from the existing one using Visual Modflow Model by using 35 vertical wells with a discharge of 30 m³/hr./well. 		
7.6	<i>Nov 2004 - Nov 2005</i>	<i>EGY</i>	<i>MMM office for design and engineering consultants. Dr. Aly Soliman</i>
	<ul style="list-style-type: none"> - Design some normal buildings, and high-rise buildings. - Design some irrigation systems, and pump stations. 		
7.7	<i>Nov 2002 - Feb 2004</i>	<i>EGY</i>	<i>ECMA Co. for Marine affairs. Dr. Ahmed Abou-Elazm</i>
	<p>➤ During my work in <i>ECMA</i> Co. I have achieved several projects such as:-</p> <ul style="list-style-type: none"> - Design the berths (concrete block type) of El-Khafgy marine in Saudi Arabia. - Review the design of some berths for other projects especially of the corrugated sheet piles types. - General review for the design of San Stefano project in Alex. City, Egypt. - Design of Gemsha marine in El-Ain El-Sokhna, Egypt. 		

8. Academic Experience

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8.1	Nov 2002 – Current	EGY	Cairo University
	<p>Participate in teaching the following subjects in Irrigation and Hydraulics department- Faculty of Engineering - Cairo University:</p> <ul style="list-style-type: none"> ➤ For undergraduate students: <ul style="list-style-type: none"> A. <i>Applied statistics</i> for 1st year -Civil Engineering. B. <i>On-farm irrigation methods</i> for credit hour system (Water Engineering and Environment-WEE) <ul style="list-style-type: none"> - A new part was added to the course related to the design of improved on-farm irrigation system in Egypt. ➤ For postgraduate students: <ul style="list-style-type: none"> A. <i>Statistics for Engineers.</i> B. <i>Irrigation and Drainage Engineering.</i> <ul style="list-style-type: none"> - A new part in this course was added related to the design of improved on-farm irrigation system using recent researches in the field up to date. - The concept of rotational scheduling for the improved irrigation system at on-farm level was added using the programming technique (Visual basic) included in Microsoft Excel. C. <i>Computational hydraulics.</i> <ul style="list-style-type: none"> - A new part was added related to the numerical modelling using Finite Element Method (FEM). - Improve the students' programming skills by using Matlab software for the FEM technique. - A computer-based exam has been used to evaluate the students in the final exam as well as theoretical part. D. <i>Applications of engineering programs.</i> <ul style="list-style-type: none"> - A part for groundwater application has been modified using my Master software computer In-house program ASGE (Analytical Solutions for Groundwater Equations). - A computer-based exam has been used to evaluate the students in the final exam as well as theoretical part. E. <i>Economics of Water Resources Management</i> (For Shared Water Resource Diploma (SWRD)). <ul style="list-style-type: none"> - The goal of my sessions is to investigate the best alternatives based on engineering economic concepts. 		
8.2	<i>Sept.2012 - Aug. 2013</i> <i>Sept.2016 - Aug. 2017</i>	EGY	Secretary of the Department Council
	<ul style="list-style-type: none"> ➤ Selected as Secretary of the Department Council for two intervals at (Sept.2012-Aug.2013), and (Sept.2016-Aug.2017) where all documents related to the department council have been sent to all members through email instead of hardcopies which facilitate the communication process. 		

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8.3	Sept.2012- Sept.2017	EGY	<i>Information Technology Committee</i>
	<ul style="list-style-type: none"> ➤ Represent my department in the information technology committee in the faculty of Engineering- Cairo University from year 2012 to 2017. ➤ The main objective of this committee is to provide strategic guidance for the management of information systems at the faculty. 		
8.4	11 March 2017	EGY	<i>First Scientific Conference on Water Engineering, Irrigation and Environment</i> <i>Cairo University</i>
	<ul style="list-style-type: none"> ➤ The first scientific conference on Water Engineering, Irrigation and Environment was held at 11 March 2017 in the Social Club, Faculty of Engineering-Cairo University. ➤ This conference came as part of the celebration of the Faculty of Engineering, University of Cairo, 200 years since the establishment of the Engineering School (1816 - 2016) and the beginning of engineering education in Egypt with irrigation engineering. ➤ I was one of the organizing committee for the conference, and my activities can be summarized as follows:- <ul style="list-style-type: none"> - Preparation of the list of invitees from different Egyptian universities in the field of water. - Preparation and sending the invitations letters to the invitees. - Participate in the design of the conference banners, and the main banner of the conference. - Participate in the preparation of the conference agenda, printing the brochures for the conference. - Gathering all the data for the conference (the names of the actual list of participants - the contents of the various presentations - analysis of the results of the conference evaluation - pictures of the conference) and put it on CD. ➤ The conference was attended by the Minister of Water Resources and Irrigation, the President of Cairo University, the Dean of Faculty of Engineering- Cairo University, in addition to some prominent scientific figures and former ministers. The conference was covered by media, which contributed to the success of the conference. 		
8.5	20 Nov-15 Dec 2016 15 Nov– 10 Dec 2015 16Feb. - 20 Feb. 2014 10th, 18th Dec. 2012	EGY	<i>Training Course on:</i> <i>“Groundwater and Artificial Recharge” or</i> <i>“Well Drilling and Maintenance”</i>
	<ul style="list-style-type: none"> ➤ This training course was achieved and repeated in four periods at years 2012, 2014 till 2016. I was invited as a professional trainer with full two days lectures in the Regional center for training and water studies, 6th October City. The training was funded by JICA (Japan International Cooperation Agency) with the cooperation of Ministry of Water Resources and Irrigation (MWRI). ➤ During the training the main principals of groundwater hydrology in full and partial penetrating wells were discussed through presenting my In-house program ASGE (Analytical Solution of Groundwater Equations) resulted from my master thesis. Trainees were sometimes from different Arab countries (Jordon, Palestine, Moraco, Sudan and other countries), and other times from the ministry especially Engineers and managers from groundwater sector of New Valley. 		

8.6	May – June 2013	EGY	<i>Eastern Nile Numerical Modeling Laboratory (ENNML)</i>
	<p>➤ Participated in the supervision and the construction process of a new computer lab (second floor of the department) under the Eastern Nile Planning Project-Eastern Nile Technical Regional Office (ENTRO). The new lab contains:-</p> <ul style="list-style-type: none"> - One High Performance Computer (HPC) with very high speed. - 25 desktop computers with high speed. <p>➤ This new lab is capable of hosting many training courses in different fields. This lab is currently used in the following:</p> <ul style="list-style-type: none"> - Hosting the lectures of graduate studies that need to run programs during the explanation. - Hosting practical exams that need computers. - The desktop computers are being used now for Masters and PhD students in simulating and running their programs related to their works. (Because computers are updated and faster than others) 		
8.7	Oct. 2012- Dec.2012	EGY	<i>ENPM (Eastern Nile Planning Model)</i>
	<p>➤ Participated with Prof. Karim Rakha (Previous Professor in the same department) in a special study under the title ‘ ‘ A Technical Study on Nile Delta Flooding Due to Sea Level Rise’’. This Project is funded from the World Bank through the Eastern Nile Technical Regional Office (ENTRO).</p>		
8.8	8th–10th Dec. 2012	EGY	<i>“ 5th Regional (ENPM) Workshop”</i> <i>Cairo, Egypt</i>
	<p>➤ One of the organizing committee for this workshop which was held at Hilton Pyramids Golf Resort in Cairo (Dream Land). The workshop discussed several topics related to the Eastern Nile Basin problems. The participants were from Sudan, South Sudan, Ethiopia and representatives from Ten Egyptian Universities.</p>		
8.9	23th–27th Sept. 2012	Ethiopia	<i>“ 3rd Regional (ENPM) Workshop”</i> <i>Mekelle, Ethiopia</i>
	<p>➤ Participated in this workshop which was a part of the cooperation between Eastern Nile Countries through the Eastern Nile Technical Regional Office (ENTRO).</p>		
8.10	9th–12th July 2012	EGY	<i>“1st Eastern Nile Planning Model (ENPM) Workshop”</i> <i>Alexandria, Egypt</i>
	<p>➤ One of the organizing committee for this workshop which was held at Radisson BLU hotel in Alexandria (Borg El Arab zone). The workshop discussed several topics related to the Eastern Nile Basin problems. The participants were from Sudan and Ethiopia and representatives from Egyptian universities.</p>		
8.11	22nd–24th May 2012	Sudan	<i>National Workshop on: “A Concept Note for First National Workshop in Sudan ”</i> <i>Khartoum, Sudan</i>
	<p>➤ Participated in this workshop by a talk about “Rotational Scheduling in Integrated Improved Irrigation Farm System in Old Land in Delta Egypt”.</p>		

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8.12	8st–9th April 2012	EGY	Workshop on: “Awareness of ENTRO Collaboration with Egyptian Academic Institutions”
	<ul style="list-style-type: none"> ➤ One of the organizing committee of the workshop. The objective from this workshop was to promote the ENPM project and ENTRO’s plans to form and strengthen the eastern Nile community of modelers/planners. The targeted community constitutes mainly of academicians and young professional/university staff engaged in post-graduate programs and related research on water from EN Universities. ➤ The workshop has been held at the Faculty of Engineering- Cairo University in the presence of representatives of fourteen Universities in different governorates in Egypt. 		
8.13	5th – 9th Feb.2012	EGY	Training seminar on:“NB-DSS-R2”
	<ul style="list-style-type: none"> ➤ Attended the training course on Nile Basin –Decision Support System-Release 2 (NB-DSS-R2).This training was organized by the Nile Water Sector with technical support from the national decision support system unit for Egypt. 		
8.14	7thDec. 2011	EGY	Workshop on: “Step by step guide to submit a manuscript to an international journal” <i>Cairo University</i>
	<ul style="list-style-type: none"> ➤ Attended workshop entitled “Step by step guide to submit a manuscript to an international journal” which was organized by journal of Advanced Research, in New Central Library, Cairo University. 		
8.15	Aug.2010 –Aug. 2011	Saudi Arabia	King Abdullah University of Science and Technology (KAUST)
	<ul style="list-style-type: none"> ➤ During my work in KAUST (research university), the following points have been achieved:- <ul style="list-style-type: none"> - Completed a course on finite element method as a numerical technique with Professor Victor Manual Calo. I achieved the first grades between foreign PhD students. - Participated in publishing three papers. 		
8.16	14th– 30th April. 2009	EGY	Training on:“ Statistical Data Analysis and Statistical Package SPSS” <i>Cairo University</i>
	<ul style="list-style-type: none"> ➤ Attended the training course under the title “Statistical Data Analysis and Statistical Package SPSS” held at the Institute of Statistical Studies, Cairo University. 		
8.17	24th Dec. – 25th Dec. 2008	EGY	Dissemination Workshop on: “Assessing Groundwater Development Potential in Arid Regions” <i>For the UNDP/GEF Funded Project "The Eastern Desert Project ", Ain El-Sokhna.</i>
	<ul style="list-style-type: none"> ➤ Participated in this workshop with a speech explaining ASGE program (my In-house program), and how it can be used to assist with rapid decision making for groundwater situations, including well hydraulics analysis. ➤ Prof.Mahmoud Abu Zeid, and Prof.Mohamed Nasr El-Din Allam (the previous Minister of Water Resources and Irrigation (MWRI) were on the head of the participants. The 		

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	participants were from different places, professors from Cairo University, Ministry of Water Resources and Irrigation, Ministry of Agriculture & Land Reclamation, Ministry of Housing Utilities & Urban Development, Ministry of Tourism, Egyptian Environment Affairs Agency, and Representatives of UNDP and the Media. For more details about the Eastern Desert Project visit website: gis.mwri.gov.eg/gis		
8.18	26th Nov. – 27th Nov. 2008	EGY	<i>Training seminar on: “Environmental Management and Assessment Tools for Estimating Groundwater Potential” Irrigation and Hydraulic Dept.-Faculty of Engineering-Cairo University</i>
	<ul style="list-style-type: none">➤ Participated in this training with a complete session discussing the hydraulic behavior of wells, and the practical design concepts using ASGE program.➤ The organizers of the training are both, the Eastern Desert Project, Cairo University, and the Information & Decision Support Department at the Ministry of Water Resources & Irrigation (MWRI).➤ The participants were fifteen trainees from different departments within MWRI; (i) Planning Sector, (ii) Groundwater Sector, (iii) Information and Decision Support Department in addition to five trainees from Cairo University.		
8.19	13th -15th Dec 2006	EGY	<i>Training on” Groundwater Assessment and Development.” “El-Gouna, Hurghada”</i>
	<ul style="list-style-type: none">➤ Participated in the training with a lecture about “Introduction to Well Hydraulics”. The participants consist of many responsible persons from Arab country such as (Tunis, Mauritania, Jordan, Morocco, Libya, Syria, Algerie). Other participants are from Egypt such as (Head of groundwater sector, General Manager of Minofya irrigation system, Head of GIS department,...).		
8.20	26th -29th June 2006	EGY	<i>Training on “ Determining the Properties of Groundwater Aquifers” Irrigation and Hydraulic Dept.-Faculty of Engineering-Cairo University</i>
	<ul style="list-style-type: none">➤ Attended training course on “Determining the properties of Groundwater aquifers”. The training was under program called “Hydrologic Field and Laboratory Methods-HyFiLM” under the management of Prof. Ahmed Emam Hassan- Professor of groundwater in irrigation and hydraulics department- Faculty of Engineering- Cairo University.		
8.21	Sep. 2003 –Jan. 2004	EGY	<i>Cairo University</i>
	<ul style="list-style-type: none">➤ Completed the training course ”Groundwater and surface water Modeling using GMS&WMS” which has been held at the department. The training supervisor was Dr.Y.Eugene Yan from America.➤ Completed the training course” Remote sensing”.➤ Completed the training course” Meteorology”.		

9. Research interests

- Groundwater modeling, well hydraulics, numerical modeling, irrigation system design, in addition to the hydrology and design of dams.

10. Awards/Achievements:

- At 2nd April 2009, I was rewarded from Cairo University for being the best teaching assistant in my department.
- I was rewarded at January 2013 the Award of late Prof. Dr. Ahab Ismail, who launched an annual Scientific Excellence Awards named after his teachers and colleagues and sons graduates those contributed enriching the scientific field of irrigation and hydraulics.
- I was rewarded at July 2014 from (CAPSCU) Center for Advancement of Post-Graduate Studies and Research in Engineering Sciences at Cairo University, for best Ph.D. thesis in the irrigation and hydraulics department for year 2011.
- At 2015 International Conference on Environment, Agriculture & Civil Engineering (ICEACE'2015) in Malaysia:
 - a) I was selected as Keynote speaker and I gave a talk under Title "Impact Assessment of the Proposed Water Resources Development Projects in the Blue Nile Basin on Nile Flow at Aswan".
 - b) I was rewarded for the best paper in the session under title "Water Scarcity in Egypt".

11. Publications:

Journals

- Hany G. Radwan, (2017), "Water Saving from Improved On-Farm Irrigation Projects in Egypt", International journal of Scientific & Engineering Research, Vol. 8 –Issue 8, pages 871-883.
- Hany G. Radwan, (2017), "Rotational Scheduling Concept for Opened Hydrants at Improved On-Farm Irrigation Projects in Egypt", International journal of Scientific & Engineering Research, Vol. 8 –Issue 8, pages 65-77.
- Hany G. Radwan, (2016), "Conditions for Equitable Water Distribution at Improved On-Farm Irrigation Projects in Egypt-Case of Variable Water Pressure at Outlets", Civil Engineering Research Magazine (CERM) - Faculty of Engineering Al-Azhar University, Vol. 38 –No.2, pages 141-153.
- Hany G. Radwan, (2016), "Fairness Water Distribution at on-farm Irrigation Projects in Egypt: Case of variable land level", International Water Technology Journal, IWTJ, Vol. 6 – No.2, pages 144-157.
- Hany G. Radwan, Eman F. Abdel Aziz, Alaa M. Elzawahry, (2016), "Multi-Criteria Analysis for the Overall Assessment of Regulators and Barrages in Egypt", International Water Technology Journal, IWTJ, Vol. 6 –No.2, pages 166-179.
- Hany G. Radwan, and Abu-Bakr T. Hussin, (2015), "Impacts of Reduced Released Flow From High Aswan Dam on The River Course in Egypt", International Journal of Research in Chemical, Metallurgical and Civil Eng. (IJRCMCE) Vol. 2, Issue 2, pages 94-99.
- Hany G. Radwan, (2015), "Fairness Water Distribution at On-Farm Irrigation Development Projects In Egypt - Case of Laser Levelling", International Journal of Research in Chemical, Metallurgical and Civil Eng. (IJRCMCE) Vol. 2, Issue 2, pages 100-104.
- Hany G. Radwan, (2013), "Sensitivity Analysis of Head Loss Equations on the Design of Improved Irrigation On-Farm System in Egypt", International Journal of Advancements in Research & Technology, Volume 2, Issue 1, pages 1-9 .
- V.M. Calo, N. Collier, M. Gehre, B. Jin, H. Radwan, M. Santillana, (January 2013), "A gradient based estimation of Manning's friction coefficient from noisy data", Journal of Computational and Applied Mathematics Volume 238, pages 1-13.

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- Nathan Collier, Hany Radwan, Lisandro Dalcin, Victor M. Calo (2013), "Time Adaptivity in the Diffusive Wave Approximation to the Shallow Water Equations", *Journal of Computational Science*, Volume 4, pages 152 - 156
- H. G. Radwan, P. Vignal , N. Collier, L. Dalcin , M. Santillana, V. M.Calo (2012)" Convergence rates for diffusive shallow water equations (DSW) using higher order polynomials", *Journal of the Serbian Society for Computational Mechanics* Volume 6, pages 160-168
- Nathan Collier, Hany Radwan, Lisandro Dalcin, Victor M. Calo (2011), " Diffusive Wave Approximation to the Shallow Water Equations: Computational Approach", *Procedia Computer Science* volume 4, pages 1828–1833.
- Hany G. Radwan, Ashraf S. Zaghoul, Kamal A. Ibrahim (June 2011), "Analysis of Optimal Velocity for Improved Irrigation Design in Egypt.", *Canadian Journal on Environmental, Construction and Civil Engineering* Vol. 2, No. 5, pages (94-102).
- Hany G. Radwan, Ashraf S. Zaghoul, Kamal A. Ibrahim (June 2011), "Practical Design Of Improved Irrigation Projects in Egypt Under Specific Constraints.", *Canadian Journal on Environmental, Construction and Civil Engineering* Vol. 2, No. 5, pages (103-110).

Conferences

- Hany G. Radwan, (2016)," Fairness Water Distribution at on-farm Irrigation Projects in Egypt: Case of variable land level", Nineteenth International Water Technology Conference, IWTC19- Sharm ElSheikh, Egypt.
- Hany G. Radwan, Eman F. Abdel Aziz, Alaa M. Elzawahry, (2016)," Multi-Criteria Analysis for the Overall Assessment of Regulators and Barrages in Egypt", Nineteenth International Water Technology Conference (IWTC19) - Sharm ElSheikh, Egypt.
- Hany G. Radwan, and Abu-Bakr T. Hussin, (2015), "Impacts of Reduced Released Flow From High Aswan Dam on The River Course in Egypt", 2015 International Conference on Environment, Agriculture & Civil Engineering (ICEACE'2015) Sept. 24-26, 2015 Penang, Malaysia
- Hany G. Radwan, (2015), " Fairness Water Distribution at On-Farm Irrigation Development Projects In Egypt - Case of Laser Levelling", 2015 International Conference on Environment, Agriculture & Civil Engineering (ICEACE'2015) Sept. 24-26, 2015 Penang, Malaysia
- Hany G. Radwan, Ashraf S. Zaghoul, Kamal A. Ibrahim (2010), " Modified Technique for Design The Improved Irrigation on-Farm System", International Conference on Modeling, Simulation and Control (ICMSC 2010, Session 4),IEEE conference, pages (174-179).
- Hany G. Radwan, Ashraf S. Zaghoul, Kamal A. Ibrahim (2010), "Modified Technique of Irrigation Model:Design and Sensitivity Analysis", International Conference on Modeling, Simulation and Control (ICMSC 2010, Session 2),IEEE conference, pages (82-86)
- Ahmad Wagdy, Hany G. Radwan, Sherif M. El-Didy (2009),"Specific Problems Related to Partially Penetrating Wells in Confined Aquifers." World Environmental and Water Resources Congress, Kansas City, Missouri, ASCE (2009).
- Ahmad Wagdy, Hany G. Radwan, Sherif M. El-Didy (2009), "Tool for Estimation of Additional Drawdown Due to Partially Penetrating Wells in Confined and Semi- Confined Aquifers", World Environmental and Water Resources Congress, Kansas City, Missouri, ASCE (2009).