

## CURRICULUM VITAE

Name: **Ibrahim Abdulrazak Khalil Al-Ani**  
Date of Birth: March 6<sup>th</sup>, 1983  
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### QUALIFICATIONS

Jan. 2014 – August 2014	Post Doctorate, National University of Malaysia, Malaysia <b>Hydrology: Stormwater Quality Management</b>
2009-2013	PhD Degree in Civil Engineering, Universiti Tenaga Nasional (UNITEN), Malaysia Title: <b>Development of Hybrid Eco-Friendly Expert System to Minimise Erosion and Sedimentation Due to Stormwater in the Malaysian Construction Industry.</b> <u>Awarded with the <b>Best PhD Thesis Award</b> in Water Resources and Hydrology. 2014. In cooperation with the World Water Day 2014. UNESCO-IHP Malaysia</u>
2006-2007	M.Sc. Degree in Civil Engineering, Universiti Kebangsaan Malaysia, UKM, Malaysia Title: <b>Development of Light Weight Aggregate Concrete by Using Industrial Waste (Oil Palm Clinker).</b>
2001-2005	B.S. Degree in Water Resources Engineering, Baghdad University, Iraq. Project Title: <b>Design and Analysis of Water Piping Network by Using Hardy Cross Method.</b>

## WORKING EXPERIENCE

No.	Year	Position	Place
1	2016-Present	Lecturer in Civil Engineering Department	Al-Farabi University, Baghdad, Iraq
2	2014- 2016	Lecturer and Acting Chairman of Civil Engineering Department	Komar University of Science and Technology, Sulaimaniyah, Iraq
3	March 2014- August 2014	Postdoctoral Research Fellow	National University of Malaysia, Malaysia
4	January 2012-March 2014	Research Engineer & Teaching	University Tenaga National, Kajang, Selangor, Malaysia
5	2009-2010	Teaching Hydrology and Hydraulics Laboratory	University Tenaga National, Kajang, Selangor, Malaysia
6	2008-2009	Research Assistant	National University of Malaysia, Malaysia
7	2005-2006	Engineering Designer	Department of Engineering Designing, Ministry of Water Resources, Baghdad/Iraq

## TEACHING EXPERIENCE

Strength of Materials	Engineering Mechanics: Statics & Dynamics
Engineering Statistics	Water Resources Engineering
Hydrology	Environmental Engineering
Hydraulics	Soil Mechanics
Fluid Mechanics	Engineering Materials
Transportation Engineering	

## RESEARCH INTEREST

Stromwater Management  
 Soil Erosion and Sedimentstions  
 Environmnetal Management

Urban Drainage  
 Optimisation in Water Resources  
 Expert Systems and Artificial Intelligence

## RESEARCH PROJECTS

No.	Grant	Project Title	Role	Start/End Date	Amount
1	UNITEN- MOHE- JICA	Research & Development for Reducing Geo-Hazard Damage in Malaysia Caused by landslide & Flood	Project Member	Apr 2013- Apr 2017	RM1,807,000
2	MOHE- PRGS	Eco-Friendly Integrated Green Technology Expert System for Sustainable Green Infrastructure (GENIUS)	Project Member	July 2012- july 2014	RM137K
3	JICA-JST	Research & Development for Reduction Geo-hazard Damage in Malaysia caused by Landslide and Flood: Geo-hazard Remote analysis & monitoring stations (GRAMS)	Project Member	2011-2016	USD 1 Million

## PUBLICATIONS

### BOOKS

1. **Ibrahim Abdulrazak Al-Ani**. 2019. Lightweight Aggregate Concrete using Industrial Waste Palm Oil Clinker. Lambert Publishing Academy, European Union.
2. **Ibrahim Abdulrazak Al-Ani**. 2019. A. I. and Expert Systems: Applications in Civil Engineering. Lambert Publishing Academy, European Union.
3. Lariyah Mohd Sidek, Hidayah Basri, **Ibrahiem Abdul Razak Al-Ani**, Wesentera Mohd Jayothisa, and Faizah Che Ros. 2014. Research and Development for Reduction Geo-Hazard Damage in Malaysia Caused by Landslide and Flood. Centre for Sustainable Technology and Environment. Universiti Tenaga Nasional, Selangor, Malaysia.
4. **Ibrahiem Abdul Razak Al-Ani**, Lariyah Mohd Sidek, Noor Ezlin Ahmed, Sivadass Thiruchelvam, Hidayah Basri. 2013. An Innovative Hybrid Eco-Friendly System for Minimising River Pollution in Construction Industry. Centre for Sustainable Technology and Environment. University Tenaga National, Selangor, Malaysia.

### JOURNALS

1. **Ibrahiem Abdul Razak Al-Ani**, Lariyah Mohd Sidek, Hayder Al-Thamery, Wan Hanna Melini and Noor Ezlin Ahmed Basri. 2019. Application of USLE and MUSLE Models for the Assessment of Soil Loss and Sediment Yield in Kuala Kari, Kelantan. International journal of Energy and Water Resources (Submitted).
2. **Ibrahim Abdulrazak Al-Ani**, Tamara Sidek. 2019. Assessing the Water Quality of Tigris River for Drinking Purposes using Water Quality Index Approach. Arid Journal of Science and Technology.
3. **Ibrahim Abdulrazak Al-Ani**, Wan Hanna Wan Mohtar, Hayder A. Al-Thamery. 2019. Multi Criteria Decision Making to Optimize the Best Runoff Control Measure Contributing to Haditha Dam Reservoir. International journal of Energy and Water Resources (Submitted).
4. **Ibrahim Abdul Razak Al-Ani**. 2019. Mathematical Computation of Water Quality Index for the Assessment of Al-Hilla River Ecosystem. International Journal of Civil Engineering and Technology. Vol. 10, Issue 01, pp. 1862-1869.

5. **Ibrahiem Abdul Razak Al-Ani**. 2018. Urbanisation and Sediment Control using Intelligent System. *International Journal of Energy and Environment*. Vol. 9 (4), 373-384.
6. **Ibrahim Abdulrazak Al-Ani**, Jabir Ghayyib Talib, Wael Jabbar Al-Nidawi and Muhaned Thiab Al-Hashimi. 2018. Artificial Intillgent Decision Support System for Sediment Capturing through Sediment Basins. *Journal of Advanced Computer Science and Technology Research*, Vol. 8, Issue 1, PP. 36-42.
7. **Ibrahiem Abdul Razak Al-Ani**, Wan Hanna Wan Mohtar, Noor Ezlin Ahmad Basri, and Lariyah Mohd Sidek. 2016. Development of a Hybrid Expert System-multi criteria analysis on Erosion and Sediment Control in Construction Industry. *Journal of KSCE (Journal of Civil Engineering)*, Vol. 20 (7), 3045-3056.
8. **Ibrahiem Abdul Razak Al-Ani**, Lariyah Mohd Sidek, Mohamed Nor Mohamed Desa, and Noor Ezlin Ahmad Basri. 2012. Hybrid Knowledge-based Expert System and Multi-criteria Analysis for Minimising Erosion and Sedimentation due to Stormwater in Malaysian Construction Sites. *Journal of Water Practice and Technology*. IWA. DOI: 10.2166/wpt.2012.042.
9. **Ibrahiem Abdul Razak Al-Ani**, Lariyah Mohd Sidek, Mohamed Nor Mohamed Desa, and Noor Ezlin Ahmad Basri. 2010. Knowledge Based Expert System to Minimise Environmental Pollution in Malaysian Construction Sites. *International Journal of Energy and Environment*. Canada. 2(2), 237-246.
10. **Ibrahiem Abdul Razak Al-Ani**, Lariyah Mohd Sidek, Mohamed Nor Mohamed Desa, and Noor Ezlin Ahmad Basri. 2009. Expert System for Mitigating Erosion and Sedimentation due to Storm Water During Construction Activities in Malaysia. *European Journal of Scientific Research*. 38 (1), 38-44.
11. **Ibrahiem Abdul Razak Al-Ani**, Lariyah Mohd Sidek, Mohamed Nor Mohamed Desa, and Noor Ezlin Ahmad Basri. 2012. Multi Criteria Analysis in Environmental Management: Selecting the Best Stormwater Erosion and Sediment Control Measure in Malaysian Construction Sites. *International Journal of Energy and Environment*. Canada. 2(5), 853-862.
12. **Ibrahiem Abdul Razak Al-Ani**, Lariyah Mohd Sidek, Mohamed Nor Mohamed Desa, and Noor Ezlin Ahmad Basri. 2012. Knowledge-based Expert System for Stormwater Management in Malaysia. *Journal of Environmental Science and Technology*. ISSN 1994-7887/ DOI: 10.3923/jest.2012.

13. **Ibrahiem Abdul Razak Al-Ani**, Lariyah Mohd Sidek, Mohamed Nor Mohamed Desa, and Noor Ezlin Ahmad Basri. 2012. Development of MCECSC software for Selecting the Best Stormwater Erosion and Sediment Control Measure in Malaysian Construction Sites. *International Journal of Energy and Environment*. Canada, 3(1), 119-128.
14. **Ibrahiem Abdul Razak Al-Ani**, Lariyah Mohd Sidek, Mohamed Nor Mohamed Desa, and Noor Ezlin Ahmad Basri. 2011. Knowledge Based Expert System for Minimising Stormwater Erosion and Sedimentation in Malaysian Construction Sites. *International Journal on Advanced Science, Engineering and Information Technology*. 1(2), 167-172.
15. Noor Ezlin Ahmad Basri, Amiruddin Ismail, Riza Atiq, Nur Akmal, and **Ibrahiem Abdul Razak Alani**. 2009. Rapid Prototyping Expert Systems for Minimising River Pollution During Highway Construction Activities. *Journal of Applied Sciences* 9(12):2280-2286. ISSN 1812-5654. Asian Network for Scientific Information.

### INTERNATIONAL CONFERENCES

1. **Ibrahiem Abdul Razak Al-Ani**, Lariyah Mohd Sidek, Mohamed Nor Mohamed Desa, and Noor Ezlin Ahmad Basri. 2011. Knowledge Based Expert System for Minimising Stormwater Erosion and Sedimentation in Malaysian Construction Sites. *International Conference on Advanced Science, Engineering and Information Technology*, 167-172. Bangi, Selangor, Malaysia.
2. **Ibrahiem Abdul Razak Al-Ani**, Lariyah Mohd Sidek, Mohamed Nor Mohamed Desa, and Noor Ezlin Ahmad Basri. 2012. Development of Decision Support Tools for Urban Storm Drainage During Construction Activities. *12<sup>th</sup> International Conference on Urban Drainage*. Porto Alegre-RS Brazil.
3. **Ibrahiem Abdul Razak Alani**, Noor Ezlin Ahmad Basri, Riza Atiq Abdullah, and Amiruddin Ismail, 2009. Artificial Intelligence Expert System for Minimising Solid Waste during Highway Construction Activities. *International MultiConference of Engineers and Computer Scientists 2009* ISBN: 978-988-17012-2-0. Hong Kong.
4. **Ibrahiem Abdul Razak Al-Ani**, Lariyah Mohd Sidek, Hidayah Basri, and Sivadass Thiruselvam. 2014. Mitigating Stormwater Pollution During Construction Activities in Malaysia. *International Conference on Urban Drainage*, Sarawak, Malaysia.

5. Lariyah Mohd Sidek, Hidayah Basri, Sivadass Thiruselvam, Mohamed Roseli Zainal Abidin, Salmia Beddu, Norlela Ismail and **Ibrahiem Abdul Razak Al-Ani**. 2014. Eco-Friendly Integrated Green Technology Expert System for Sustainable Green Infrastructure. International Conference on Urban Drainage, Sarawak, Malaysia.

### **NATIONAL CONFERENCES**

1. **Ibrahiem Abdul Razak Al-Ani**, Lariyah Mohd Sidek, Mohamed Nor Mohamed Desa, and Noor Ezlin Ahmad Basri. 2010. Knowledge Based Expert System for Stormwater Pollution Control in Malaysia. *National Hydrology Conference*. Universiti Tun Hussein Onn Malaysia, Batu Bahat, Johor, Malaysia.
2. **Ibrahiem Abdul Razak Al-Ani**, Lariyah Mohd Sidek, Mohamed Nor Mohamed Desa, and Noor Ezlin Ahmad Basri. 2010. Multi Criteria Analysis for Ranking the Best Stormwater Erosion and Sediment Control Practices in Malaysia. *SCORED Conference*. Universiti Tenaga Nasional, Kajang, Selangor, Malaysia.
3. **Ibrahiem Abdul Razak Al-Ani**, Lariyah Mohd Sidek, Mohamed Nor Mohamed Desa, and Noor Ezlin Ahmad Basri. 2011. Monitoring and Inspecting Program for the Stormwater Control Measures in Malaysian Construction Sites. *SCORED Conference*. Universiti Tenaga Nasional, Kajang, Selangor, Malaysia.
4. **Ibrahiem Abdul Razak Al-Ani**, Lariyah Mohd Sidek, and Mohamed Nor Mohamed Desa. 2012. Prediction of the Life Cycle Cost for Erosion and Sediment Control Measures. *National Graduate Conference*. Universiti Tenaga Nasional, Kajang, Selangor, Malaysia.
5. **Ibrahiem Abdul Razak Alani**, Noor Ezlin Ahmad Basri, Riza Atiq, and Amiruddin Ismail, 2008. Development of an Expert System to Minimise River Pollution during Highway Constructin Activities. Engineering Postgraduate Conference (EPC), Kajang, Malaysia.

## AWARDS

No.	Category	Year	Product Name & Exposition	Place
1	Gold Medal	2014	An Integrated Green Technology Expert System for Sustainable Green Infrastructure, 24 <sup>th</sup> International Invention, Innovation and Technology Exhibition	Kuala Lumpur, Malaysia
2	Gold Medal	2013	Eco-ESCES Eco-Friendly Erosion and Sediment Control System, Invention and New Product Exposition	Pittsburgh, PA USA
3	Gold Medal	2012	Eco-Friendly Erosion and Sediment Control System (ECO-ESC), 23 <sup>rd</sup> International Invention, Innovation & Technology Exhibition	Kuala Lumpur, Malaysia
4	Silver Medal	2012	An Innovative Erosion and Sediment Control Expert System (ESCES), Malaysia Technology Expo	Kuala Lumpur, Malaysia
5	Silver Medal	2012	Eco-Friendly Erosion and Sediment Control System (ECO-ESC), International Engineering Invention & Innovation Exhibition and Malaysian International Young Inventors Olympiad	Perlis, Malaysia
6	Participation	2012	Eco-Friendly Erosion and Sediment Control Expert System (ECO-ESC), Korea International Invention Exposition	Seoul, Korea



## WORKSHOPS & TRAINING COURSES

<b>No.</b>	<b>Year</b>	<b>Seminar/Workshop Name</b>	<b>Place</b>
1	2019	Digital Platforms in Serving of Academic Institutions	Al-Iraqia University, Baghdad, Iraq
2	2019	General Requirements for the Competence of Testing & Calibration Laboratories (ISO 17025:2017)	Al-Farabi University College, Baghdad, Iraq
3	2014	Course Syllabus Making and Learning Outcomes	Komar University of Science and Technology, Iraq
4	2013	Publication Workshop	Universiti Tenaga Nasional, Kajang, Selangor, Malaysia
5	2013	Ministry of Higher Education- Japanese International Cooperation Agency – Japanese Science and Technology Workshop UNITEN Retreat Research & Development for Reducing Geo Hazard Damage in Malaysia Caused by Landslide and Flood	Port Dickson, Negri Sembilan, Malaysia
6	2012	Integrated Urban Water Management Using MSMA Stormwater Management Ecohydrology As Part of Switch Program: From Theory Until Implementation (Presenter)	Cameron Highlands, Pahang, Malaysia
7	2011	Workshop on Erosion and Sediment Control Expert System (ESCES) for Stormwater Management Control (Presenter)	Universiti Tenaga Nasional, Kajang, Selangor, Malaysia
8	2011	Seminar on Eco-Engineering Applications in Malaysia in cooperation with International Erosion Control Association Malaysia Chapter (Participant)	Universiti Malaya, Kuala Lumpur, Malaysia
9	2010	International Seminar on Flood Forecasting and Warning Systems (Participant)	Unievrstiti Tenaga Nasional, Kajang, Selangor, Malaysia
10	2010	Soil Bioengineering Rebuilding Function into the Watershed (Participant)	Universiti Kebangsaan Malaysia, Bangi, Selangor, Malaysia

11	2009	MUSLIM Water Countries Cooperation Seminar (Participant)	Bangi, Selangor, Malaysia
12	2009	International Hydrology Seminar (Presenter)	Department of Irrigation and Drainage, Hydrology Division, Kuala Lumpur, Malaysia

## ADDITIONAL QUALIFICATIONS

- ❖ **AutoCad Course:** course on using the Auto Cad program for engineering purposes, University of baghdad, Iraq.
- ❖ **Making Decision:** course help in decision making by using the expert system software, Institutional center for computer studies, Baghdad, Iraq.
- ❖ **Computer Maintenance:** Course on general computer mainenance, University of Baghdad, Iraq.
- ❖ **English Proficiency:** Certificate in English Proficiency, Baghdad University, Baghdad, Iraq.
- ❖ **English Proficiency:** Certificate in English Proficiency, National University of Malaysia, Bangi, Selangor, Malaysia.

## ACADEMIC EDITOR & REVIEWER

- ❖ Reviewer in American Association for Science and Technology, USA
- ❖ Reviewer in Journal of Civil Engineering and Architecture, USA
- ❖ Reviewer in International Journal of Advanced Research (IJAR)
- ❖ Reviewer in Journal of Engineering, National University of Malaysia, Malaysia
- ❖ Editor in Global Social Science Review (GSSR)
- ❖ Editor in American journal of Engineering & Technology Management (AJETM)

## PROFESSIONAL BODIES, COMMITTEES AND COMMUNITY SERVICES

- ❖ Member in Iraqi Engineering Union.
- ❖ Member in American Society of Civil Engineers (ASCE)
- ❖ Member in American Association for Science and Technology
- ❖ Member in International Water Association (IWA)
- ❖ Member in Malaysian Hydrological Society

## REFERENCES

**Associate Professor Dr. Wan Hanna Mohtar**

National University of Malaysia

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**Associate Professor Dr. Ahmed Hussein Birima**

University Tenaga Nasioanl, Selangor, Malaysia

**E-mail:** [ahussein@uniten.edu.my](mailto:ahussein@uniten.edu.my)

**Professor Dr. Lariyah Mohd Sidek**

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Other references are available upon request.