

**Curriculum Vitae – Academic**  
**Professor Dr. Khalaf Salloum Gaeid Alshammery**

Web of Science Researcher ID G-2784-2015  
ORCID 0000-0002-8943-3034



**1. Personal Information**

- Name: Khalaf Salloum Gaeid
- Born :Muthana,1969
- Address: Iraq, Salahdin Province.
- Email:gaeidkhalaf@gmail.com & khalafgaeid@tu.edu.iq
- Nationality: Iraq

**2. Objective:**

Professor in Control System and Electrical Networks

**3. Education:**

Ph.D. from University of Malaya Malaysia,26/7/2012 Control System and Machine Drive Dissertation: Wavelet based fault tolerant control of induction motors

M.Sc. Electrical Engineering, University at Technology, Iraq,(11-12-2003)  
Control System Thesis: Application of a hybrid (Neural+ Expert) for Fault Diagnosis

B.Sc. Electrical and Electronics Engineering/Control Application of microprocessor for control purposes (11-7-1993)

**4. Experience:**

Lecturer, 2005 – Till Now-University of Tikrit - Iraq  
Course:

- Control Systems in the Classroom
- Electrical Network in Classroom
- Induction Machines in Classroom
- Wavelet in the classroom for Master student of UM
- Digital control in classroom
- Adaptive control in classroom
- Intelligent control in classroom

## 5. Research Skills:

Matlab/Simulink Programming, Scientific Researcher.  
System design of electrical machine drives and Faults detections

## 6. Reviewer

Acting as a reviewer in the following journals:

- Neurocomputing (Elsevier)
- Scientific research and assays journal
- International journal of physical sciences journal
- Techposs IEEE conference(2009)
- Tikrit University Engineering journal( Editorial board 2013-)
- Physical Review & Research International
- Measurements Journal(UK)
- Transactions of measurements and control journal(UK)
- IEEE access Journal

## 7. Editorial board

- SCIREA Journal of Computer
- Tikrit journal for engineering and science
- International journal of research publications
- Artificial Intelligence Evolution (AIE)

## 8. Presentations:

- Khalaf Salloum (2011). Fault Tolerant Control of Induction Motor .University of Malaya/Malaysia.
- Khalaf Salloum (2011). Introduction to Wavelet, University of Malaya/Malaysia
- Khalaf Salloum (2009).Indirect Vector Control of Induction Motor/ITB /Indonesia
- Khalaf Salloum (2012).fault tolerant control of IM with wavelet index /Jilin University /China
- Association of Arab Universities, Jordan, 2014.
- ICEMAS, Turkey 2018.
- Oxford 1<sup>st</sup> Annual International online Congress on Renewable Energy(2024) as invited speaker (UK)
- Invited speaker on IFERP conference for Education and Teaching(2024) Malaysia(online)
-

- Keynote speaker CEL -conference ,Malaysia 2024

## 9. Publications:

	<u>TITLE</u>	<u>CITED BY</u>	YEAR
<input type="checkbox"/>	<a href="#"><u>Design and Implementation of Submarine Robot with Video Monitoring for Body Detection Based on Microcontroller</u></a> YA Mashhadany, AF Shafeeq, KS Gaeid 13th International Conference on Developments in eSystems Engineering (DeSE)		2021
<input type="checkbox"/>	<a href="#"><u>Computer Based Control For Compensation of Power System Application</u></a> SD Mahmood, AK Hamoody, MJ Marie, KS Gaeid, YA Mashhadany 13th International Conference on Developments in eSystems Engineering (DeSE)		2021
<input type="checkbox"/>	<a href="#"><u>Robot control and kinematic analysis with 6DoF manipulator using direct kinematic method</u></a> MHD Khalaf S Gaeid, Asaad F Nashee, Ibrahim A Ahmed Bulletin of Electrical Engineering and Informatics (BEEI) 10 (1), 70-78	<u>3</u> *	2021
<input type="checkbox"/>	<a href="#"><u>Induction Motor Speed Control with Solar Cell Using MPPT Algorithm by Incremental Conductance Method</u></a> ONMKSGAFNKM Siddiqui Tikrit Journal of Engineering Sciences 27 (3), 8-16	<u>1</u>	2020
<input type="checkbox"/>	<a href="#"><u>Induction motor fault detection based on multi-sensory control and wavelet analysis</u></a> YIAM Ukashatu Abubakar, Saad Mekhilef, Khalaf S. Gaeid, Hazlie Mokhlis IET Electric Power Applications 14 (11), 2051 – 2061	<u>5</u>	2020
<input type="checkbox"/>	<a href="#"><u>Intelligent Controller for 7-DOF Manipulator Based upon Virtual Reality Model</u></a> YA Mashhadany, KS Gaeid, MK Awsaj 12th IEEE International Conference on Developments in eSystems Engineering ...	<u>7</u>	2020
<input type="checkbox"/>	<a href="#"><u>Design and Implement of Dual Axis Solar Tracker System Based Arduino</u></a> ONM Khalaf S Gaeid, M Nasir Uddin, Mohamed K Mohamed Tikrit Journal of Engineering Sciences 27 (2), 71-81	<u>4</u> *	2020
<input type="checkbox"/>	<a href="#"><u>Evaluation of energy-saving potential for optimal time response of HVAC control system in smart buildings</u></a> KSS Raad Z.Homod, Khalaf S.Gaeid, Suroor M.Dawood, Alireza Hatami Applied Energy 271 (115255), 1-20	<u>35</u> *	2020
<input type="checkbox"/>	<a href="#"><u>DTC Controller Variable Speed Drive of Induction Motor with Single Processing Technique</u></a> SFH Anas A. Hussien, Yousif I AIMushhadani, Mehdi J Marie, Khalaf S. Gaeid ... 12th IEEE International Conference on Developments in eSystems Engineering ...		2020

	<u>TITLE</u>	<u>CITED BY</u>	YEAR
<input type="checkbox"/>	<a href="#"><u>Effect of Fuzzy PID Controller on Feedback Control Systems Based on Wireless Sensor Network</u></a> KSG Anas A. Hussien, Mehdi J Marie International Journal of Electrical and Computer Engineering 10 (3/1), Q2	<u>1</u> *	2020
<input type="checkbox"/>	<a href="#"><u>Computer Control of Teaching Enhancement by Communication Networked</u></a> KSG Nada N Tawfeeq, Mahdi J Marie Indonesian Journal of Electrical Engineering and Computer Science 18 (2), Q3		2020
<input type="checkbox"/>	<a href="#"><u>Multilevel Inverter Fault-Tolerant Control with Wavelet Index in Induction Motor</u></a> AJL Khalaf S. Gaeid, Rami A. Maher Journal of Electrical Engineering & Technology(Springer) 14 (3), 1179–1191	<u>7</u> *	2019
<input type="checkbox"/>	<a href="#"><u>2nd Order Control System Signal Processing Modelling and Analysis through Analogue Computer</u></a> DAH Wesam I Hajim , Salam Razooky Mahdi , Essa I Essa , Mshari A. Asker ... REVISTA AUS 26, 263-273		2019
<input type="checkbox"/>	<a href="#"><u>Fuzzy PID Controller for Induction Motor with DSP Wavelet</u></a> KSG Mshari A. Asker, Essa I Essa , Ali Abdullah Ali REVISTA AUS Journal 26 (1), 1-7		2019
<input type="checkbox"/>	<a href="#"><u>Design and analysis of Robot PID controller using Digital signal Processing Techniques</u></a> TQA Mshari A. Asker ,Khalaf S. Gaeid, Nada N. Tawfeeq, Humam K. Zain ,Ali I ... International Journal of Engineering & Technology 7 (4.37), 103-109	<u>1</u>	2018
<input type="checkbox"/>	<a href="#"><u>Computer Simulation of PMSM Motor with Five Phase Inverter Control using Signal Processing Techniques</u></a> SRM Khalaf S. Gaeid,Mshari Aead Asker,Nada N Tawfeeq International Journal of Electrical and Computer Engineering (IJECE) 8 (5 ...	<u>3</u> *	2018
<input type="checkbox"/>	<a href="#"><u>Wireless Network Control System for Electrostatic Precipitator in Cement Plant</u></a> ARA Mehdi J. Marie,Khalaf S. Gaied Al-Khawarizmi Engineering Journal 13 (4), 50-57	<u>2</u> *	2018
<input type="checkbox"/>	<a href="#"><u>Performance Prediction for a Forced Convection in a Equilateral Triangular Channel based on Intelligent Control</u></a> MSM Tahseen A Tahseen, Khalaf S.Gaeid , Ahmed R.Ajel The First International Conference for Engineering Researches/Iraq, 37-47		2017
<input type="checkbox"/>	<a href="#"><u>Nonlinear Compensation Employing Matrix Converter with DTC Controller</u></a> MJM Khalaf S. Gaied, Ziad H. Salih, Ahmed R. Ajel International Journal of Electrical and Computer Engineering 7 (1), 107-124	<u>4</u> *	2017
<input type="checkbox"/>	<a href="#"><u>Unified Power Quality Conditioner Model Based with Series and Shunt Filters</u></a> MT Khalaf S Gaeid , Hamood International Journal of Power Electronics and Drive Systems (IJPEDS) 7 (3 ...	<u>3</u> *	2016
<input type="checkbox"/>	<a href="#"><u>Direct Torque Control of Induction Motor with Matrix Converter</u></a> ZHS Khalaf Salloum Gaeid,Asim Majeed	<u>2</u> *	2016

	<u>TITLE</u>	<u>CITED BY</u>	YEAR
	journal of Engineering Science and Technology Review(JESTR) 9 (2), 50-58		
<input type="checkbox"/>	<a href="#"><u>Sliding Mode Control of Induction Motor with Vector Control in Field Weakening</u></a> KSGAS Ziad Hussein Salih Modern Applied Science journal 9 (2), 286 -299	<a href="#"><u>17*</u></a>	2015
<input type="checkbox"/>	<a href="#"><u>Classical Control Theory</u></a> yousif al mashhadany & Khalaf Gaeid Book(978-3-659-59708-4), 404		2014
<input type="checkbox"/>	<a href="#"><u>Wavelet-based prognosis for fault-tolerant control of induction motor with stator and speed sensor faults</u></a> S Gaeid Transactions of the Institute of Measurement and Control, 1-14	<a href="#"><u>19</u></a>	2014
<input type="checkbox"/>	<a href="#"><u>New vector radix algorithm for computing two dimensional discrete Hartley transform</u></a> Hamood Mounir T,Gaeid Khalaf S,Ali Sufian H 22nd Mediterranean Conference of Control and Automation(MED14), 1026-1030		2014
<input type="checkbox"/>	<a href="#"><u>Adaptive Fuzzy Sliding-Mode Control into Chattering-Free IM Drive</u></a> A Saghafinia, HW Ping, MN Uddin, KS Gaeid IEEE Transactions on Industry Applications, 1-8	<a href="#"><u>157</u></a>	2014
<input type="checkbox"/>	<a href="#"><u>Optimal Gain Kalman Filter design with DC motor speed controlled Parameters</u></a> K Gaeid journal of asian scientific research 3 (12), 1157-1172	<a href="#"><u>9</u></a>	2013
<input type="checkbox"/>	<a href="#"><u>Agrees and Disagrees of Mechanical and Electrical Faults Diagnosis of the IM Techniques: A Review</u></a> KS Gaeid, AM Bash, AJ Abbas, JA Hameed International Journal of Engineering and Innovative Technology (IJEIT) 3 (2 ...		2013
<input type="checkbox"/>	<a href="#"><u>DTC Controller Design for IM with Wavelet Noise Reduction</u></a> K Gaeid European Journal of Scientific Research 101 (4), 546-556	<a href="#"><u>2</u></a>	2013
<input type="checkbox"/>	<a href="#"><u>Static DC Motor Speed Controlled Parameters Correction</u></a> MKH Khalaf S. Gaeid,amal A. Hameed,M. Hameed Ali British Journal of Applied Science & Technology 3 (3), 586-597	<a href="#"><u>6</u></a>	2013
<input type="checkbox"/>	<a href="#"><u>Space vector Modulation for V/f Induction Motor Control</u></a> K Gaeid Wulfenia 20 (3), 166-178		2013
<input type="checkbox"/>	<a href="#"><u>Detection of induction motor faults using direct wavelet transform technique</u></a> HW Ping, KS Gaeid 15th International Conference on Electrical Machines and Systems (ICEMS), 1-5	<a href="#"><u>10</u></a>	2012
<input type="checkbox"/>	<a href="#"><u>Survey of wavelet fault diagnosis and tolerant of induction machines with case study</u></a> KS Gaeid, HW Ping, MK Masood, L Szabo International Review of Electrical Engineering (IREE) 7 (3), 4437-4457	<a href="#"><u>18</u></a>	2012

	<u>TITLE</u>	<u>CITED BY</u>	YEAR
<input type="checkbox"/>	<a href="#"><u>Sensor and sensorless fault tolerant control for induction motors using a wavelet index</u></a> KS Gaeid, HW Ping, M Khalid, A Masaoud Sensors 12 (4), 4031-4050	<a href="#"><u>47</u></a>	2012
<input type="checkbox"/>	<a href="#"><u>Fault tolerant control of induction motor through observer techniques II</u></a> KS Gaeid, HW Ping, M Khalid, SM Herdan Scientific Research and Essays 7 (6), 679-692	<a href="#"><u>2</u></a>	2012
<input type="checkbox"/>	<a href="#"><u>Modeling &amp; Fault Diagnosis of IM by using Intelligent Control: University Of Malaya/Malaysia</u></a> KS Gaeid, HW Ping, Y Almushhadany LAP LAMBERT Academic Publishing	<a href="#"><u>5</u></a>	2012
<input type="checkbox"/>	<a href="#"><u>Sliding-Mode Control Approach for Robust Induction Motor drive</u></a> A Saghafinia, HW Ping, KS Gaeid IEEE Conference ,Malaysia		2012
<input type="checkbox"/>	<a href="#"><u>Wavelet Based Fault Tolerant Control of Induction Motor</u></a> KS Gaeid Ph.D thesis in control and machine drive		2012
<input type="checkbox"/>	<a href="#"><u>Modeling &amp; Fault Diagnosis of IM by using Intelligent Control</u></a> HWP YA Khalaf Salloum Gaeid Lap Publish		2012
<input type="checkbox"/>	<a href="#"><u>Wavelet techniques for Induction Machines with Reconfigurable fault Tolerant Controller</u></a> HWP Mustafa Khalid Khalaf Salloum Gaeid International conference Bahang University Malaysia, 1-6		2012
<input type="checkbox"/>	<a href="#"><u>Adaptive Fuzzy Sliding-Mode Control into Chattering-Free Induction Motor Drive</u></a> G KS Saghafinia, W. P. Hew, Nasir Uddin IEEE IAS Annual Meeting, 1-8	<a href="#"><u>19</u></a> *	2012
<input type="checkbox"/>	<a href="#"><u>Induction motor fault tolerant control with wavelet indicator</u></a> KS Gaeid, HW Ping, MK Masood, A Saghafinia International Conference on Transportation, Mechanical, and Electrical ...	<a href="#"><u>7</u></a>	2011
<input type="checkbox"/>	<a href="#"><u>Fault tolerant control of induction motor</u></a> KS Gaeid, HW Ping Modern Applied Science 5 (4), 83	<a href="#"><u>38</u></a>	2011
<input type="checkbox"/>	<a href="#"><u>Wavelet fault diagnosis and tolerant of induction motor: A review</u></a> KS Gaeid, HW Ping International journal of physical sciences 6 (3), 358-376	<a href="#"><u>70</u></a>	2011
<input type="checkbox"/>	<a href="#"><u>Wavelet Fault Diagnosis of Induction Motor</u></a> KS Gaeid, HW HewWooi Ping MATLAB for Engineers-Applications in Control, IT and Robotics,	<a href="#"><u>32</u></a> *	2011
<input type="checkbox"/>	<a href="#"><u>Fault diagnosis of induction motor using MCSA and FFT</u></a> KS Gaeid, HW Ping, M Khalid, AL Salih	<a href="#"><u>53</u></a>	2011

	<u>TITLE</u>	<u>CITED BY</u>	YEAR
	Electrical and Electronic Engineering 1 (2), 85-92		
<input type="checkbox"/>	<a href="#">Condition Monitoring and Protection of Induction Motor using Wavelet Indicator</a> HWP Khalaf Salloum Gaeid International journal of Electrical Engineering 4, 787-806		2011
<input type="checkbox"/>	<a href="#">Induction motor fault detection and isolation through unknown input observer</a> KS Gaeid, HW Ping Scientific Research and Essays 5 (20), 3152-3159	<u>21</u>	2010
<input type="checkbox"/>	<a href="#">Modelling and PID controller design for a quadrotor unmanned air vehicle</a> AL Salih, M Moghavvemi, HAF Mohamed, KS Gaeid 2010 IEEE International Conference on Automation, Quality and Testing ...	<u>306</u>	2010
<input type="checkbox"/>	<a href="#">Modeling and Control of the Saturation's Transformer</a> AJ Abbas, KS Gaeid, IK Salih Tikrit Journal of Engineering Science (TJES) 17 (1), 16-27	<u>2</u>	2010
<input type="checkbox"/>	<a href="#">Diagnosis and Fault Tolerant Control of the Induction Motors Techniques a Review</a> HWP Khalaf Salloum Gaeid , Haider A.F.Mohamed Australian Journal of Basic and Applied Sciences 4 (2), 227-246	<u>60</u>	2010
<input type="checkbox"/>	<a href="#">Flight PID controller design for a UAV quadrotor</a> KSG AL Salih, M Moghavvemi, HAF Mohamed Scientific Research and Essays 5 (23), 3660-3667	<u>325*</u>	2010
<input type="checkbox"/>	<a href="#">Simulink representation of induction motor reference frames</a> KS Gaeid, HW Ping, HAF Mohamed International Conference for Technical Postgraduates (TECHPOS), 1-4	<u>12</u>	2009
<input type="checkbox"/>	<a href="#">Indirect vector control of a variable frequency induction motor drive (VCIMD)</a> KS Gaeid, HW Ping, HAF Mohamed International Conference on Instrumentation, Communication, Information ...	<u>12</u>	2009
<input type="checkbox"/>	<a href="#">NNPID Controller for Induction Motors with Faults</a> KS Gaeid, HAF Mohamed, HW Ping, LH Hassan University of Malaya& University of Nottingham Malaysia Campus, The 2 nd ...	<u>1</u>	2009

## **Awards and Honors:**

- Excellent Grade for Best Lecturers 2005, University of Tikrit -Iraq
- Excellent Grade for Best Lecturers 2006, University of Tikrit -Iraq
- Excellent Grade for Best Lecturers 2007, University of Tikrit –Iraq
- Excellent Grade for Best Lecturers 2012, University of Tikrit –Iraq
- Excellent Grade for Best Lecturers 2013, University of Tikrit –Iraq
- Excellent Grade for Best Lecturers 2014, University of Tikrit –Iraq
- Excellent Grade for Best Lecturers 2015, University of Tikrit –Iraq
- Excellent Grade for Best Lecturers 2016, University of Tikrit –Iraq
- Excellent Grade for Best Lecturers 2017, University of Tikrit –Iraq

- Excellent Grade for Best Lecturers 2018, University of Tikrit –Iraq
- Top 20 excellent research paper around the world (No.1) in the field of fault tolerant control and machine drive (2012), according to BIOMEDLIB center.
- One of the most valuable researchers around the world 2014 &2015 according to Marquis.
- Top 100 Engineers according to (International biographic center, IBC, Cambridge, UK), 2015.
- Top 3% around the world in the scientific research according to Marquise, 2018 and 2019.
- Nominated as the Man of year in the Engineering 2018.
- The paper” Direct Torque Control of Induction Motor with Matrix Converter” wins the World champion 2018.
- International Best Scientist Award 2020 (VDGOOD) in India

## 10. Skills and Qualifications:

- Microsoft Office, Internet
- Programming ability in Matlab Software
- Control designer
- Simulation and modeling with Simulink
- Fault Tolerant Control of Induction Machine Design

## 11. Academic Positions:

- Director of computer center 2013-2014
- Control and computer department head 2014-2015

## 12. Google Scholar Account

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

## 13. Research gate Account

[https://www.researchgate.net/profile/Khalaf\\_Gaeid4](https://www.researchgate.net/profile/Khalaf_Gaeid4)

## 14. Publons Account

<https://publons.com/researcher/1219109/dr-khalaf-s-gaeid/>

## 15. ORCID Account

<https://orcid.org/my-orcid?orcid=0000-0002-8943-3034>



16. **Web of Science account**

**<https://www.webofscience.com/wos/author/record/G-2784-2015>**

17. **Scopus Account**

**<https://www.scopus.com/authid/detail.uri?authorId=35795121600>**