السيرة الذاتية

أ. م. د. أبراهيم خلف محمد اللهيبي

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معلومات شخصية	
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اللقب العلمي:	أستاذ مساعد
تاريخ الحصول عليه	03/09/2020
الكلية والقسم:	كلية هندسة الالكترونيات-قسم هندسة النظم والسيطرة
الجامعة الحالية:	جامعة نينوى

الاهتمامات البحثية
Classic Control, Modern Control, Adaptive Control, Optimization Techniques, Power Electronics Control

البيانات العلمية	
المواد التي يدرسها للدراسات الأولية: Mathematics , Engineering Analysis, Electronics, System Modeling, Electrical Circuits, Devices, Optimal Control, Adaptive Control, Digital Control	
عدد المواد التي يدرسها في الدراسات العليا: **2**	
عدد طلبة الماجستير الذين أشرف عليهم:	**2**
عدد طلبة الدكتوراه الذين أشرف عليهم:	
معامل هيرتش	**7**

الشهادات	
الدكتوراه	هندسة سيطرة

تاريخ الحصول عليها	2012/11/15
الجامعة	نيوكاسل
الدولة المانحة	انكلترا
الماجستير	هندسة الالكترونيك
تاريخ الحصول عليها	1999/04/15
الجامعة	الجامعة التكنلوجية
الدولة المانحة	العراق
البكالوريوس	هندسة الالكترونيك واتصالات
تاريخ الحصول عليها	1992/6/25
الجامعة	جامعة الموصل
الدولة المانحة	العراق

البحوث والمؤلفات

عدد البحوث المنشورة في المجلات المحلية والمؤتمرات:	3
عدد البحوث المنشورة في المجلات الاقليمية والعالمية:	**15**

البحوث والكتب المؤلفة في التخصص

- I. K. Mohammed, B. S. Sharif, J. A. Neasham, and D. Giaouris "Novel MIMO 4-DOF Position Control for Capsule Endoscope" Proc. of the IEEE ISCAS, Rio de Janeiro, Brazil, 909-912 May 2011.
- I. K. Mohammed, B. S. Sharif and J. A. Neasham, "Design and Implementation of 2DOF Control System for Capsule Endoscope," Presented as a poster paper in the 1st conference of Engineering and Science, Iraqi Cultural Attach, London Imperial College, December, 2011.
- I. K. Mohammed, B. S. Sharif and J. A. Neasham, "Design and Implementation of an Efficient Positioning System Based on Coil Sensor for Capsule Endoscope," Presented as a poster paper in Digital Institute Event, Newcastle University, September 2012.
- I. K. Mohammed, B. S. Sharif and J. A. Neasham, "Design and Implementation of a Magnetic Levitation Control System for Robotically Actuated Capsule Endoscopes, Proc. of the IEEE ROSE2012 conference, Germany, November 2012.
- Three conference papers in field of magnetic control system were presented in conferences held in EECE/Newcastle University/UK 2008, 2009 and 2010.
- Ibrahim K. Mohammed, "Design and Simulation of Three-Degrees-of-Freedom Tracking Systems for Capsule Endoscope Implementation," ASME/ Journal of Dynamic Systems, Measurement, and Control, V. 138(11) May, 2016, USA.
- Abdulla I. Abdulla, Ibrahim K. Mohammed and Abdulhammed M. Jasim "Roll Control System Design Using Auto Tuning LQR Technique," International Journal of Engineering and Innovative Technology (IJEIT) V. 7(1) July, 2017, India.
- Ibrahim K. Mohammed and Abdulla I. Abdulla "Design of Optimized Linear Quadratic Regulator Controller for Capsule Endoscopes Based on Artificial Bee Colony Tuning Algorithm," Int. Journal for Engineering Modeling V. 15(3) Jun, 2018, Croatia.
- Ibrahim K. Mohammed "Fractional Order PID Controller Design for Speed Control DC Motor Based on Artificial Bee Colony Optimization" Int. J. of Comp. App., V. 179(24), 2018, USA.
- Ibrahim K. Mohammed and Abdulla I. Abdulla "Elevation, pitch and travel axis stabilization of 3DOF helicopter with hybrid control system by GA-LQR based PID controller," Int. Journal of Electrical and Computer Engineering, V. 10(2) April, 2020, Indonesia.
- Ibrahim K. Mohammed and Abdulla I. Abdulla "Balancing a Segway robot using LQR controller based on genetic and bacteria foraging optimization algorithms," TELKOMNIKA, V. 18(5) Oct., 2020, Indonesia.
- I. K. Mohammed, "Design of optimized PID controller based on ABC algorithm for buck converters with uncertainties', Journal of Engineering Science and Technology (JESTEC), 16(5), Oct, 2021.
- Mohammed N. Ahmed, Ibrahim K. Mohammed and Ahmed T. Younis, "Design and implementation of PSO/ABC tuned PID controller for Buck

converters", Periodicals of Eng. and Natural Sciences, Vol. 9 (4), in 2021.

- Publication a book chapter titled" A hybrid control approach based on the combination of PID control with LQR optimal control" in a book titles "Advance" Innovation and Expansion of PID Controllers" in publisher IntechOpen, London, England.
- S. I. Saadi, and I. K. Mohammed, "Power Control Approach for PV Panel System Based on PSO and INC Optimization Algorithms," Journal Européen des Systèmes Automatisés, vol. 55, no. 6, pp. 825-843, 2022.

I. K. Mohammed and M. N. Moman, "Optimal Control Approach for Robot System Using LQG Technique," Journal Européen des Systèmes Automatisés, vol. 55, no. 5, 2022, pp. 671-677. https://doi.org/10.18280/jesa.550513.