

1. Personal Information

Name: Associate Professor Dr Issam Mohammed Ali Al-jubury

Birth Date: 4th April 1971 **Citizenship:** Iraqi

Status: married

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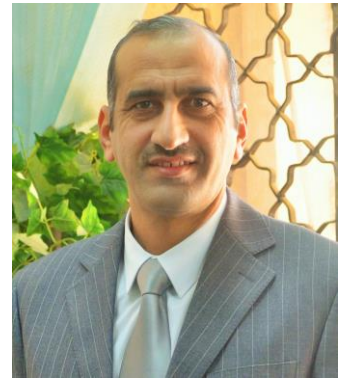
Email: drissam@uobaghdad.edu.iq / juburyima@gmail.com

https://scholar.google.com/citations?user=hHt-gQcAAAAJ&hl=en

ResearcherID: D-1838-2015

URL: <http://www.researcherid.com/rid/D-1838-2015>

ORCID: <http://orcid.org/0000-0001-7921-579X>



2. Short Biography

Education:

- **2010:** PhD with distinction, South Russian State Technical University (SRSTU), Russia.
Field: Intelligent control of heating, ventilating and air-conditioning (HVAC) system.
- **2001:** M.Sc. degree with distinction, University of Baghdad, Iraq.
Field: Mechanics, Thermo-fluid.
- **1993:** B.Sc. degree from University of Al- Nahrain, Iraq.
Field: Mechanical Engineering.

Experience:

- **2017** until now Head department of Energy Engineering
- **2011-2015:** Expert Consultant in University of Baghdad, Iraq.
- **2005-2011:** South Russian State Technical University (SRSTU), Russia.
- **1996-Now:** Faculty member of Mechanical Engineering dept., University of Baghdad, Iraq.

Achieved Projects:

- "Iraqi Refrigeration Code" Ministry of Construction and Housing, 2015.
- Mechanical workshops and air conditioning systems, Baghdad engineering library.
- Air conditioning system rehabilitation, al-Karkh hospital, Baghdad.
- Sewage pumps station, Samara town, Iraq.
- Mechanical workshops on refrigeration systems for mobile ice maker, Al-Mansor Co., Baghdad.
- Supervisor at Al-Majd Company which is responsible for providing mechanical equipment such as centrifugal and axial pumps, generators, turbines, compressors, boilers -----etc.

Publications: Over 20 publications (including Book Chapters, Journals, Conferences, etc.)

Awards and Distinctions

- Fulbright Visiting Scholar Program, USA, (2013).
- PhD with distinction from Russia (2010).
- M.Sc. with distinction from Iraq (2010).
- Member of American Society of Heating, Refrigerating and Air-conditioning Engineers.

3. Academic Qualifications

Assistant Professor Degree

January 2015

Establishment : Ministry of Higher Education and Research, Iraq.
 Specialty : Mechanical Engineering, thermo-fluid.
 Qualification No. : 10642 in 26/04/2015.

Research activities

Reviewer for the following journals:

- Editorial member/ College of Engineering Journal, University of Baghdad, Iraq.
- Al-Khwarzmi Engineering Journal, University of Baghdad, Iraq.
- Journal of Al-Nahrain University, Al-Nahrain University, Iraq.
- Internal examiner, University of Baghdad.
- External examiner, University of Technology.
- External assessor, University of Baghdad.
- External assessor, Middle Technical University.
- External assessor, Middle Technical University.

Post-graduate supervision

1. Supervisor, MSc. thesis entitled: **Experimental Comparative Performance Analysis of an Automotive Air Conditioning System Using R1234yf as an Alternative Refrigerants to R134a**", University of Baghdad, College of Engineering"2018.
2. Supervisor, MSc. thesis entitled: **Performance Study of Photovoltaic/Indirect-Direct Evaporative Cooling Systems for Domestic Applications in Iraqi Climate**", University of Baghdad, College of Engineering"2017.
3. Supervisor, MSc. thesis entitled: **Performance Enhancement of Refrigeration Cycle Using Open-Cell Aluminum Foams Condenser**", University of Baghdad, College of Engineering"2017.
4. Supervisor, MSc. thesis entitled: **"Enhancement of Evaporative Cooling System Efficiency in A Greenhouse Using Geothermal Energy"**, University of Baghdad, College of Engineering"2016.
5. Supervisor, MSc. thesis entitled: **Experimental Analysis of Vapor Compression Cycle Using Microchannel Heat Exchanger**", University of Baghdad, College of Engineering" 2017.

6. Supervisor, MSc. thesis entitled: "**Enhancement of Evaporative Cooling System Efficiency in A Greenhouse Using Geothermal Energy**", University of Baghdad, College of Engineering", 2016.
7. Co-Supervisor, MSc. thesis entitled: "**Comparison Study of Vapor Compression Cycle Performance by Using Micro Channel and Finned-tube Condenser**", Engineering Technical College, Middle Technical University, Baghdad, Iraq, 2017.
8. External Supervisor for Ph.D Candidate in **University of Leeds**, School of Chemical and Process Engineering, 2015.
9. Co-supervisor, MSc. thesis entitled: "**Intelligent Control of Greenhouse Using Labview and SCADA System**", University of Baghdad, Al-Khwarizmi College of Engineering".
10. Co-supervisor, MSc. thesis entitled: "**Comparison Study of The Thermal-Hydraulic Performance of Condenser Using Conventional Fins and Open-Cell Aluminum Foams**", Middle Technical University, Technical engineering College.

4. Academic Activities

Since Jan.1996: Faculty member, Mechanical Engineering Dept., University of Baghdad, Iraq

Duties:

1. Head Department of Energy Engineering, 2018
2. Teaching postgraduate courses for Mechanical, courses as follows:
 - 2013-2017: M.Sc. Courses: **Advanced Refrigeration; Advanced Thermodynamics.**
3. Teaching undergraduate courses for Mechanical and Mechatronics, courses as follows:
 - Air-Conditioning and Refrigeration.
 - Fundamentals of Thermodynamics.
 - Fluid Mechanics.
 - Heat Transfer.
 - Mechanical Drawing
 - Fuzzy Control System.
3. Lecturing at mechanical engineering department, University of Baghdad in the experimental laboratories of:
 - Air-Conditioning and Refrigeration.
 - Thermodynamics laboratory.
 - Heat Transfer Laboratory
 - Internal Combustion Engines Laboratory.
4. Responsible for the developments of experimental instruments in the mechanical engineering department in the laboratories of:
 - Air-Conditioning and Refrigeration.
 - Thermodynamics laboratory.
 - Heat Transfer and laboratory.

- 4. Oct. 2010- Oct 2014: Registrar, examination committee member: Mechanical Engineering Dept., University of Baghdad, Iraq.
- Jan. 2001- Nov.2005: Teaching techniques training course, University of Baghdad, : Continuing Education Center, University of Baghdad.
- 2010-2015: Teaching techniques training course in Continuing Education Center, University of Baghdad.

5. Research & Publications

Books

1. Simulink step by step with engineering applications, Baghdad University, 2009.
2. Intelligent control of mechatronic system for building climate, Russia 2011.
3. Iraqi Code of Refrigeration-2015.
4. Final Year Project - Preparing and Presenting, Baghdad University 2015.
5. Quran Mind Map, 2016.

Journal Papers

No.	Researcher Name	Research Title	Journal Name and year of Publication
1	Issam M. Ali Aljuburya Hind Dhia'a Ridhab	Enhancement of evaporative cooling system in a greenhouse using geothermal energy	Renewable Energy Volume 111, October 2017, Pages 321–331
2	Khalifa, Abdul Hadi N., Issam Mohammed Ali, and Atheer Saleh Hassoon.	Exergy Analysis of Refrigeration Cycle With Open-Cell Metal Foam Condenser	Journal of Multidisciplinary Engineering Science and Technology (JMEST)
3	Ali, Issam Mohammed, Ahmed Qasim Mohammed, and Marwa Sallah Neama.	"Theoretical Analysis For Miniature Vapor Compression Cycle Performance Using Microchannel And Finned Tube Condenser."	Journal of Multidisciplinary Engineering Science and Technology (JMEST) Vol. 4 Issue 6, June -2017
4	Khalifa, Abdul Hadi N., Issam Mohammed Ali, and Atheer Saleh Hassoon	Experimental Study the Performance of Aluminum Foams Condensers in the Vapor Compression Cycle	International Journal of Current Engineering and Technology Vol.5, No.4 (Aug 2015)
5	Issam Mohammed Ali , Hind Dhia'a Ridha	Indirect-Direct Evaporative Cooling of Greenhouse by using Geothermal Energy	Al-Muhandis Journal- JMISE 153 (1) 07 – 70 March 2016
6	Issam Mohammed Ali Aljubury, Ammar Ali Farhan, Munther Abdullah Mussa,	Experimental Study of Interior Temperature Distribution Inside Parked Automobile Cabin	Journal of Engineering No.3, Volume 21, March,2015.

7	Issam Mohammed Ali, Khalid Aljudi, Fadil abbas	Study and Design an Intermittent Solar Energy Adsorption Cooler	Journal of Association of Arab Universities for studies and engineering research. Second issue of volume (21) 2014
8	Issam Mohammed Ali	Developing of a fuzzy Logic controller For Air Conditioning System,	Anbar Journal for Engineering Sciences (AJES), Vol.5, No.2,2012
9	Issam Mohammed Ali	Thermal modeling of buildings systems using MATLAB / Simulink	North-Kavkasian region Russia 2009
10	Issam Mohammed Ali	Fuzzy control system microclimate of the quarters buildings	North-Kavkasian region Russia 2009
11	Issam Mohammed Ali	Automatic climate control in buildings and structures on the basis of fuzzy logic	Journal of Construction Engineering Academy of Russia 2008
12	Issam Mohammed Ali	Power management of intellectual buildings. New technologies of traffic engineering facilities	9-th International Scientific and Technical Conference 2008
13	Issam Mohammed Ali	Building Automation Technologies	North-Kavkasian region 2007
14	Issam Mohammed Ali Hani A.Jasim	Experimental study of capillary Tubes Using R-134a & R-12 refrigerants	Al-Khwarizmi Engineering Journal, vol.1, no.1,pp 73- 82, (2005)
15	Issam Mohammed Ali	Transient Simulation of refrigerated room Using Alternative	J. of Engineering College, University of Baghdad 2001

International Conferences

1. **Issam Mohammed Ali Al Jubury** (2012) Theoretical And Experimental Fuzzy Control For Improving Building Energy Management Systems, Zaytoonah University International Engineering Conference on Design and Innovation in Infrastructure 2012 (ZEC Infrastructure 2012), June 18-20, 2012 Amman, Jordan.
2. **Issam Mohammed Ali Al Jubury** and Bulgakov Alexey Gregorevich "Microcontroller-Based Energy Saving of HVAC Using Fuzzy Control System", Zaytoonah University International Engineering Conference on Sustainability: Design and Innovation 2014. June 18-20, 2014 Amman, Jordan.
3. **Issam Mohammed Ali** and Munther A. Mussa "Simulation of Room Heating by localized heating Source using the Lattice Boltzmann Technique", Zaytoonah University International Engineering Conference on Sustainability: Design and Innovation 2014.

Final Year Project Report/User Manuel

1. Experimental Analysis of Vapor compression Cycle using R-134a and Propane R-290.

2. Numerical Simulation of Extended Surface Using Ansys Fluent
3. Computer Simulation of Vapor compression Cycle using R-134a and Propane R-290.
4. Construction of vertical turbine for domestic electricity generation
5. Construction of Sensible Evaporative Cooling System for Residential Uses.
6. Design And Fabrication of Evaporative Cooling System For Greenhouse Worked On PV Array
7. Design of Solar Powered Vaccines Refrigerator
8. Study and Design Solar Desert Cooler
9. Design of a Two Stage Indirect/Direct Evaporative Cooling System
10. Experimental Investigation of Adding Bio-Additives on Otto Engine Efficiency

Note:

Issam Mohammed Ali Aljubury would like to notify that **Аль Джубури Иссам Мохаммед Али** is his name in Russian publication list.

6. Awards and Distinctions

- Fulbright Visiting Scholar Program, USA, (2013).

7. Memberships

- Member of the editorial board of the Journal of Engineering, Baghdad University since 2016.
- Faculty Member of Mechanical Department/College of Engineering/ Baghdad University since 1996.
- Member of American Society of Heating, Refrigerating and Air-conditioning Engineers (ASHRAE)
- Member of Iraqi Engineers Union.

8. Scientific Reviewer

- Journal of Engineering College, University of Baghdad College of Engineering, Iraq.
- Al-Khwarzmi Engineering Journal, Al-Khwarzmi College of Eng., University of Baghdad, Iraq.
- Journal of Al-Nahrain University, Al-Nahrain University, Baghdad – Iraq.
- Internal examiner, University of Baghdad.

9. Languages

- **Arabic** Fluent
- **English** Fluent
- **Russian** good