

CV



Name: Firas Abdulrazzaq Hadi

الاسم: فراس عبد الرزاق هادي

Scientific title: Scientific Researcher

اللقب العلمي: استاذ مساعد دكتور

Date and Place of Birth: Iraq, Baghdad, 1976

Status: Married

Gender: Male

Residence: Iraq-Baghdad/Al-Amryah

Affiliation: Al-Karkh University of Science

Certificates:

- 1- B.Sc. in Physics / College of Science / Baghdad University.
- 2- M.Sc. in Astronomy (Digital Image Processing) / College of Sconce / Baghdad University.
- 3- Ph. D student in Physics / College of Science / Alnahrayn University.

Experience:

- 1- Image Processing / Image Restoration / Image Compression.
- 2- Electronic card Designing.
- 3- Computer Maintenance and Building.
- 4- Remote Sensing Field.
- 5- Wind Energy Analysis.
- 6- Solar Energy Analysis
- 7- Arduino

Knowing Programming Languages:

Visual Basic, Arduino, Qbasic, Matlab.

Knowing Software Programes:

CorelDraw, Photoshop, ERDAS, GIS, Word, Excel, PowerPoint, ENVI, Statistica, Surfer, WAsP.

Achievement:

Built WEAP program for wind energy assessment project

Work Places:

- 1- Atomic Energy Commission, 2002-2003.
- 2- Ministry of Science and Technology, 2003-2005.
- 3- College of Science –Remote Sensing Unit, Baghdad University 2006-2007.
- 4- Arab Institute for Certified Public Accountant, 2007-2010
- 5- Ministry of Science and Technology, 2007.
- 6- Ministry of Higher Education and Scientific Research, AL-Kharkh University of Science, Department of Remote Sensing.
- 7- Collage of Renewable Science and Environment
- 8- Registration
- 9- Presidential University Office
- 10- Department of student Housing Affairs

Thesis Title:

M.Sc. Thesis / "Image Deblurring Using Orthogonal Polynomials" , Supervised by

Dr. Loay K. Abood

Dr. Ayad A. Ani

Ph.D. Thesis / "Constructing a Mathematical-Statistical Model for Wind Potential in Iraq",

Supervised by

Dr. Mohammed A. Saleh

Dr. Ayad A. Ani

Subjects of Teaching

- 1- مبادئ علم الحاسوب Principles of computer science
- 2- برمجة فيجوال بيسك Visual basic program
- 3- معالجة الصور الرقمية Digital image processing
- 4- معالجة الصور الرقمية باستخدام الماتلاب Digital image processing using Matlab
- 5- تحليل الصور الفضائية Remote sensing image analysis
- 6- الاستشعار عن بعد Remote sensing
- 7- مبادئ الطاقة الجديدة والمتجددة Principle of new and renewable energy
- 8- إدارة الطاقة Energy Management
- 9- تخزين ونقل الطاقة Energy storage and transportation
- 10- الفيزياء Physics
- 11- تطبيقات الطاقة المستدامة Sustainable Energy Utilization
- 12- المد والجزر Tide

Published Papers:

- 1- "Deblurring Digital Images Using Hermite Polynomial Transform". Iraqi Journal of Science Vol. 44, No.1, 2003.
- 2- "Unifying Techniques for Multisource Remote Sensing Images". Almustansiriyah Journal of Science Vol. 22, No. 1, 2010.
- 3- "Preparing a Map for the Surface Temperature Distribution of Baghdad and the Marsh Area Using Remote Sensing Technique". Iraqi Journal of Science, December 2012, Vol. 53, No. 4, PP.1006-1016.
- 4- "The Study Of The Surface Area Change Of Lake Al-Razzaza Using Geographic Information System (GIS) And Using Remote Sensing Technology". Iraqi Journal of Science, December 2012, Vol. 53, No. 4, Pp. 1025-1031.
- 5- "Weibull Parameters and Wind Power Assessment for Three Locations in Iraq". Iraqi Journal of Science, 2014, Vol. 55, No. B2, Pp. 729-740.
- 6- "Ambient Turbulence Intensity Calculation for Al-Nasiriyah Province in Iraq". Iraqi Journal of Science, 2014, Vol. 55, No.2A, pp.: 561-571.
- 7- "Potential Energy Evaluation for Al-Shehabi Location in Iraq (Case Study)". International Journal of Application or Innovation in Engineering & Management (IJAIEM), Volume 4, Issue 3, March 2015.
- 8- "Turbulence Intensity Calculation for Al-Shehabi Site in Iraq". International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE); Vol. 4, Issue 9, September 2015, ISSN (Print): 2320 – 3765, ISSN (Online): 2278 – 8875.
- 9- "Suitable Wind Turbine Identification Using Capacity Factor and Economic Feasibility", International Journal of Science and Technology Volume 4 No. 8, August, 2015, ISSN 2049-7318.
- 10- "Diagnosis of the Best Method for Wind Speed Extrapolation". International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE); Vol. 4, Issue 10, October 2015, ISSN (Print): 2320 – 3765, ISSN (Online): 2278 – 8875.
- 11- "A Tool for Optimum Wind Turbine Site Matching (A case study at Al-Shehabi site /Iraq) ". College of Educational Journal, Special 21th Scientific Conference pp.687-693.

- 12- "Wind Statistical Analysis and the Number of Generation Hours for Different Wind Turbines at Three Lakes in Iraq". Journal of Energy Technologies and Policy, ISSN (Paper) 2224-3232 ISSN (Online) 2225-0573.
- 13- "A Preliminary Assessment of Wind Energy in Dujaili Site at Wasit Province – Iraq (Case Study)". International Journal Of Scientific & Engineering Research, Volume 6, Issue 10, October-2015, ISSN 2229-5518.
- 14- "Efficiency of Thematic Mapper Data for Detecting the Changes of Land Use -Land Cover in Mosul Lake and Surrounding Area Northern Iraq", Iraqi Journal of Science, 2019, Vol. 60, No.3, pp: 662-676.
- 15- "Prepare a map for the number of hours of electricity generation for different wind turbines in the province of Wasit – Iraq", Iraqi Journal of Science, 2019, Vol. 60, No6.
- 16- "An assessment the wind potential energy as a generator of electrical energy in the coastal area of southern Iraq", Scientific Review – Engineering and Environmental Sciences (2020), 29 (1), 37–53

Published Book:

- 1- "Wind Energy- Mathematical and Statistical Basis", 1st Edition, ISBN: 978-3-659-69677-0, Lambert Academic Publishing.
- 2- "Unifying Technique for Multisource Remote Sensing Image", ISBN: 978-3-659-97996-5, Lambert Academic Publishing.

Training Course:

- 1- IC3 course 2010 (Baghdad University).
- 2- TOEFL Course 2010 (Baghdad University).
- 3- Applied Data analysis for scientists and engineers (workshop part 1) 2009 (MOST).
- 4- Applied Data analysis for scientists and engineers (workshop part 2) 2009 (MOST).
- 5- ICDL certificate 2008 (Ministry of Science and Technology).
- 6- Teaching methods 2007 (Baghdad University).
- 7- Computer network 2004(Baghdad University).
- 8- GPS training course 2004 (Ministry of Planning).
- 9- ERDAS Imagine course 2004 (Egypt).
- 10- Project Management Body of Knowledge PMBOK (Ministry of Science and Technology)
- 11- First Aid (Ministry of Science and Technology)
- 12- دورة المقيم الوطني
- 13- تنمية المهارات القيادية والإشرافية/ برنامج تدريبي
- 14- دورة أساسيات الطاقة الشمسية/ أقيمت من قبلي
- 15- دورة النانوتكنولوجي في الخلايا الشمسية/ أقيمت من قبلي

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