أ.م.د. فائز محمد حسن

الجامعة المستنصرية – كلية التربية
Mobile: +964 7702763549
Email: faizmohammed2007@uomustansiriyah.edu.iq.com

ملخص تعريفي:

- دكتوراة في علوم الفيزياء باختصاص معالجة الصور الرقمية والاستشعار عن بعد من جامعة العلوم الماليزية / ماليزيا . تدريسي بلقب أستاذ مساعد في قسم الفيزياء/ كلية التربية/ الجامعة المستنصرية منذ 2002 ولحد الان بخدمة اكاديمية في مجال التدريس والبحث العلمي لمدة تزيد عن 20 عاما .

الشهادات الدراسية:

- دكتوراة في علوم الفيزياء في اختصاص معاجة الصور الرقمية والاستشعار عن بعد من جامعة العلوم الماليزية في بينغ/ ماليزيا - 2012.
- ماجستير في علوم الفيزياء/ الفيزياء الطبية من قسم الفيزياء في كلية التربية/ الجامعة المستنصرية/ بغداد / العراق - 1999.
- بكالوريس في علوم الفيزياء/ فيزياء عامة من قسم الفيزياء في كلية التربية/ الجامعة المستنصرية/ بغداد/ العراق - 1994.

الجوائز والتكريم الأكاديمي:

الخبرة الأكاديمية والتدريس:

- تدريسي بلقب أستاذ مساعد في قسم الفيزياء/كلية التربية/ الجامعة المستنصرية منذ 2002 ولغاية الان بخبرة اكثر من 20 عاما في مجال التدريس الجامعي والبحث العلمي .
- خبرة في مجال التدريس كمحاضر في مواد الفيزياء والرياضيات في معهد المعلمات الرصافة الثانية/ الدراسة المسائية منذ 1999 لغاية 2007 .

المقررات الدراسية التي تم تدريسها:

الدراسات الأولية	الدراسات العليا
1- علوم الحاسوب ومختبر الحاسبات للمرحلة الأولى. 2- البرمجة ومختبر البرمجة للمرحلة الثانية. 3- اللغة الإنكليزية لجميع المراحل الدراسية في البكالوريوس. 4- مختبرات الفيزياء : • مختبر الالكترون للمرحلة الثالثة • مختبر الميكانيك للمرحلة الاولى • مختبر النووية المرحلة الرابعة • مختبر الكهربائية للمرحلة الاولى	1- التدريس في كورسات اللغة الإنكليزية لطلبة الماجستير والدكتوراة في اقسام الفيزياء والجغرافية والعلوم التربوية والنفسية منذ 2019.

الأنتساب المهني او الجمعيات:

- عضو في العديد من اللجان الدائمية والموقتة منذ 2002 لغاية الان في قسم الفيزياء بضمنها اللجان الامتحانية منذ العام 2002 لغاية 2007 والعديد من اللجان الاخرى ضمن نطاق كلية التربية/ الجامعة المستنصرية .

العديد من البحوث الاكاديمية والعلمية المنشورة في مجموعة من المجلات العالمية والمحلية والمؤتمرات المحلية والدولية :

- An Assessment of Low-cost CropCam UAV Images for Land Cover/Use over Penang Island, Malaysia - NATIONAL PHYSICS CONFERENCE 2009 (PERFIK2009)-Avillion Legacy Hotel, Malacca, Malaysia. AIP Conference Proceeding 2009, 1250:23–26.
- Evaluation of Land Cover Features over Jeddah, Saudi Arabia Using ALOS AVNIR-2 Sensor, Malaysia-NATIONAL PHYSICS CONFERENCE 2009 (PERFIK2009)-Avillion Legacy Hotel, Malacca, Malaysia. AIP Conference Proceeding 2009, 1250:23–26.
- CropCam UAV images for land use/land cover over Penang Island, Malaysia using neural network approach- Proceeding of the SPIE Asia-Pacific Remote Sensing 2010. Incheon, republic of Korea. Proc. SPIE, 7862, 78620O (2010); doi:10.1117/12.869454.
- Performances of frequency-based contextual classifier in land use/cover classification using high resolution satellite images-Proceeding of the SPIE Asia-Pacific Remote Sensing 2010. Incheon, republic of Korea. Proc. SPIE7857, 78570S (2010); doi:10.1117/12.869478.
- Performance of frequency-based contextual classifier for land use/land cover using CropCam UAV data- Proceeding of the IEEE International Conference on Space Science and Communication (IconSpace), Penang, Malaysia, 2011.
- Contextual Classification of CropCam UAV High Resolution Images Using Frequency-Based Approach for Land Use/Land Cover Mapping Proceeding of the IEEE Symposium on Industrial Electronics and Applications (ISIEA2011). Langkawi, Malaysia 2011.
- Experimental investigation to determine the optical properties of $(Fe_2O_3)_{1-x}(NiO)_x$ thin films prepared by PLD technique for NLO applications, Optical Materials, Holland 2021, Volume 121, Page:111602
- CropCam UAV for Land Cover Mapping over Penang Island, Malaysia- Pertanika Journal of Science and Technology, Malaysia 2011 Volume 19 (S), Page: 69–76.
- SYNTHESIS and CHARACTERIZATION of NANOCRYSTALLINE Co-DOPED ZnO THIN FILMS PREPARED by CHEMICAL SPRAY PYROLYSIS for OPTOELECTRONIC APPLICATIONS, Surface Review and Letters, Singapore 2021, Volume 28(12), Page: 2150118.
- Hydrogen Gas Sensor Based on ZnO Nanoroads Grown on Si by Thermal Evaporation- Journal of Materials Science and Engineering A 6 (3-4) (2016) 51-56.
- Face feature point detection based on nonlinear high-dimensional space, International Journal of System Assurance Engineering and Management, Springer India 2022, Volume 13 Page: 312- 321.
- Application of UAV tilt photogrammetry in 3D modeling of ancient buildings, International Journal of System Assurance Engineering and Management, Springer India 2022, Volume 13 Page: 424 – 436.
- Synthesis, characterization, and gas-sensing performance of macroporous Zn-doped NiO thin films for ammonia gas detection, Journal of Materials Science: Materials in Electronics, USA 2022, Volume 33(23), Page: 18187–18198.
- Incorporation of Digital Elevation Model, Normalized Difference Vegetation Index, and Landsat-8 Data for Land Use Land Cover Mapping, Photogrammetric Engineering and Remote Sensing, USA 2022, 88(8), Page: 507–515.
- Interaction of image fusion techniques and atmospheric correction for improve SVM accuracy, Earth Science Informatics, USA 2022, 15(4), Page: 2673–2687.

تطوير المهارات:
المِؤتمرات العلمية:

- International Symposium and Exhibition on Geoinformation (ISG), Kuala Lumpur, Malaysia 2008.
- Third International Meeting on Frontiers of Physics (IMFP 2009), Awana Genting Highlands, Kuala Lumpur, Malaysia 2009.
- NATIONAL PHYSICS CONFERENCE 2009 (PERFIK2009)-Avillion Legacy Hotel, Malacca, Malaysia.
- SPIE Asia-Pacific Remote Sensing 2010. Incheon, republic of Korea.
- IEEE International Conference on Space Science and Communication (IconSpace), Penang, Malaysia, 2011.
- IEEE Symposium on Industrial Electronics and Applications (ISIEA2011). Langkawi, Malaysia 2011.
- المؤتمر العلمي الحادي والعشرين لقسم الفيزياء/ كلية التربية/ الجامعة المستنصرية نيسان 2015
- 5th International Conference on Science & Technology Applications in Climate Change (STACLIM 2022 on 29-30 November 2022, Malaysia.

Certifications :

- ❖ **العديد من الشهادات التقديرية المحلية الخاصة بالنشاطات المحلية منذ العام 2002 لغاية الان في كلية التربية/ الجامعة المستنصرية من قبل وزراء التعليم العالي وروساء الجامعة المستنصرية وعمداء كلية التربية.**
- ❖ **العديد من الشهادات التقديرية الدولية الخاصة بالنشاطات في جامعة العلوم الماليزية / ماليزيا والمشاركة في المؤتمرات العلمية الدولية بصفة باحث والمشاركة في تقييم بعض البحوث لغرض النشر في المؤتمرات العلمية الدولية والمجلات الدولية.**

Workshops :

- ❖ Workshop on "GEMEATICA ORTHOENINE WORKBOOK PCI", 7-8 January 2009, Universiti Sains Malaysia, Malaysia.
- ❖ Workshop on "AricGIS Software", 10-12 March 2010, Universiti Sains Malaysia, Malaysia.
- ❖ Workshop on "SPSS" Software, 15-17 September 2010, Universiti Sains Malaysia, Malaysia.
- ❖ Workshop on CropCam Unmanned Aircraft December 2009, Kuala Lumpur, Malaysia.
- ❖ Workshop on Methodology, Scientific Writing, 2-5 June 2008, Universiti Sains Malaysia, Malaysia.

Curriculum Vitae

Ass. Prof. Dr. Faez Mohamad Hassan

Mustansiriyah University – College of Education
Mobile: +9647702763549
Email: faizmohammed2007@uomustansiriyah.edu.iq.com

PERSONAL SUMMARY:

PhD. On Physics Sciences in the field of Digital Image Processing and Remote Sensing from University Sains Malaysia/ Malaysia. Ass. Prof. Dr. in Physics Department/ Faculty of Education, Mustansiriyah University since 2002 and yet with academic service in teaching and scientific research for more than 20 years.

EDUCATION:

- Ph.D. on Physics - Universiti Sains Malaysian - Malaysia, December 2012.
- M. Sc. on Physics Department of Physics - College of Education - Mustansiriyah University, August 1999.
- B. Sc. on Physics Department of Physics - College of Education - Mustansiriyah University, July 1994.

ACADEMIC HONORS AND AWARDS:

ACADEMIC /TEACHING EXPERIENCE:

- Ass. Prof. Dr. in Physics Department/ Faculty of Education/ Mustansiriyah University since 2002 until now with more than 20 years experience in academic teaching and scientific research.
- Experience in teaching as a Lecturer in field of Mathematics and Physics at Teachers Institute for girls-afternoon class second Rusafa since 1999 until 2007.

COURSES TAUGHT:

Undergraduate	Graduate
1- Computer Science/ 1st Year, Theoretical and Lab. 2- Computer Science Programming/ 2nd Year, Theoretical and Lab. 3- English Language / All undergraduate stages. 3- Physics Labs: • Electronics Lab. / 3rd Year • Nuclear Physics Lab. / 4th Year • Electricity Lab. / 1st Year • Mechanic Lab. / 1st Year	1-English Language courses in PhD and Master Studies in Physics, Geography Departments in college of Education, Mustansiriyah University.

PROFESSIONAL AFFILIATIONS:

- ❖ A member of numerous standing committees (Temporary and Permanent) since 2002 until now in the Physics Department, including exam commissions since 2002 till 2007 and some other committees within the coverage of college of education/ Mustansiriyah University.

PUPLICATIONS:

- An Assessment of Low-cost CropCam UAV Images for Land Cover/Use over Penang Island, Malaysia - NATIONAL PHYSICS CONFERENCE 2009 (PERFIK2009)-Avillion Legacy Hotel, Malacca, Malaysia. AIP Conference Proceeding 2009, 1250:23–26.
- Evaluation of Land Cover Features over Jeddah, Saudi Arabia Using ALOS AVNIR-2 Sensor, Malaysia-NATIONAL PHYSICS CONFERENCE 2009 (PERFIK2009)-Avillion Legacy Hotel, Malacca, Malaysia. AIP Conference Proceeding 2009, 1250:23–26.
- CropCam UAV images for land use/land cover over Penang Island, Malaysia using neural network approach- Proceeding of the SPIE Asia-Pacific Remote Sensing 2010. Incheon, republic of Korea. Proc. SPIE, 7862, 78620O (2010); doi:10.1117/12.869454.

- Performances of frequency-based contextual classifier in land use/cover classification using high resolution satellite images- Proceeding of the SPIE Asia-Pacific Remote Sensing 2010. Incheon, republic of Korea. Proc. SPIE7857, 78570S (2010); doi:10.1117/12.869478.
- Performance of frequency-based contextual classifier for land use/land cover using CropCam UAV data- Proceeding of the IEEE International Conference on Space Science and Communication (IconSpace), Penang, Malaysia, 2011.
- Contextual Classification of CropCam UAV High Resolution Images Using Frequency-Based Approach for Land Use/Land Cover Mapping Proceeding of the IEEE Symposium on Industrial Electronics and Applications (ISIEA2011). Langkawi, Malaysia 2011.
- Experimental investigation to determine the optical properties of $(Fe_2O_3)_{1-x}(NiO)_x$ thin films prepared by PLD technique for NLO applications, Optical Materials, Holland 2021, Volume 121, Page:111602
- CropCam UAV for Land Cover Mapping over Penang Island, Malaysia- Pertanika Journal of Science and Technology, Malaysia 2011 Volume 19 (S), Page: 69–76.
- SYNTHESIS and CHARACTERIZATION of NANOCRYSTALLINE Co-DOPED ZnO THIN FILMS PREPARED by CHEMICAL SPRAY PYROLYSIS for OPTOELECTRONIC APPLICATIONS, Surface Review and Letters, Singapore 2021, Volume 28(12), Page: 2150118.
- Hydrogen Gas Sensor Based on ZnO Nanoroads Grown on Si by Thermal Evaporation- Journal of Materials Science and Engineering A 6 (3-4) (2016) 51-56.
- Face feature point detection based on nonlinear high-dimensional space, International Journal of System Assurance Engineering and Management, Springer India 2022, Volume 13 Page: 312- 321.
- Application of UAV tilt photogrammetry in 3D modeling of ancient buildings, International Journal of System Assurance Engineering and Management, Springer India 2022, Volume 13 Page: 424 – 436.
- Synthesis, characterization, and gas-sensing performance of macroporous Zn-doped NiO thin films for ammonia gas detection, Journal of Materials Science: Materials in Electronics, USA 2022, Volume 33(23), Page: 18187–18198.
- Incorporation of Digital Elevation Model, Normalized Difference Vegetation Index, and Landsat-8 Data for Land Use Land Cover Mapping, Photogrammetric Engineering and Remote Sensing, USA 2022, 88(8), Page: 507–515.
- Interaction of image fusion techniques and atmospheric correction for improve SVM accuracy, Earth Science Informatics, USA 2022, 15(4), Page: 2673–2687.

PROFFESSIONALDEVELOPMENT

Certifications:

- Many certificates of local domestic activities since 2002 until now within Faculty of Education/ Al-Mustansiriyah given by Ex-Ministers of Ministry of Higher Education and Scientific Research and Ex- Former Presidents of Al-Mustansiriyah University as well as from the Ex-Deans and Current Dean of College of Education/ Al-Mustansiriyah University.
- Many certificates related with International activities in Universiti Sains Malaysian/ Malaysia for participation in international scientific conferences.
- Many Certificates for being reviewer of some scientific research for publication in International scientific conferences and international Journals.

Conferences:

- International Symposium and Exhibition on Geoinformation (ISG), Kuala Lumpur, Malaysia 2008.
- Third International Meeting on Frontiers of Physics (IMFP 2009), Awana Genting Highlands, Kuala Lumpur, Malaysia 2009.
- NATIONAL PHYSICS CONFERENCE 2009 (PERFIK2009)-Avillion Legacy Hotel, Malacca, Malaysia.
- SPIE Asia-Pacific Remote Sensing 2010. Incheon, republic of Korea.
- IEEE International Conference on Space Science and Communication (IconSpace), Penang, Malaysia, 2011.
- IEEE Symposium on Industrial Electronics and Applications (ISIEA2011). Langkawi, Malaysia 2011.
- المؤتمر العلمي الحادي والعشرين لقسم الفيزياء/ كلية التربية/ الجامعة المستنصرية نيسان 2015
- 5th International Conference on Science & Technology Applications in Climate Change (STACLIM 2022 on 29-30 November 2022, Malaysia.

❖ Workshops:

- Workshop on "GEMEATICA ORTHOENINE WORKBOOK PCI", 7-8 January 2009, Universiti Sains Malaysia, Malaysia.
- Workshop on "AricGIS Software", 10-12 March 2010, Universiti Sains Malaysia, Malaysia.
- Workshop on "SPSS" Software, 15-17 September 2010, Universiti Sains Malaysia, Malaysia.
- Workshop on CropCam Unmanned Aircraft December 2009, Kuala Lumpur, Malaysia.
- Workshop on Methodology, Scientific Writing, 2-5 June 2008, Universiti Sains Malaysia, Malaysia.