Ali Rashed Bin Ghaith AlSuwaidi

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EDUCATION

Ph.D, Electrical and Electronic Engineering | 2018 | The University of Manchester

- Thesis Title: Feature Analysis of Hyperspectral Images for Plant Classification

M.Sc (Hons.), Digital Image and Signal Processing | 2011 | The University of Manchester

- Awarded with Merit
- Dissertation title: De-noising Hyperspectral Images

B.Eng (Hons.), Communication Engineering | 2007 | Khalifa University

- Awarded with 2nd class honors - 1st division
- Senior design project (individual): Oil Detection from TRMM Satellite Using Image Processing

WORK EXPERIENCE

Postgraduate Teaching Assistant | The University of Manchester | Sep. 2014 - Dec. 2018

- Laboratory demonstrator, Digital Image Processing and Digital Image Engineering courses
- Mentor, undergraduate projects and postgraduate dissertations

Head of Applications Development and Analysis Centre (ADAC) | Emirates Institution for Advanced Science and Technology (currently MBRSC) | Jan. 2008 - Jul. 2014

- Setting-up the strategic goals of the centre
- Working toward the goal of making the ADAC as a national and international R&D hub
- Developing satellite-based value-added products and analysis algorithms
- Member of DubaiSat-2 and DubaiSat-1 launch early operation team
- Member of image receiving and processing system (IRPS) team:
    - Setting the requirements of KhalifaSat and DubaiSat-2 IRPS
    - Installing and operating DubaiSat-2 and DubaiSat-1 IRPS
- Member of EIAST ground station and image processing teams

Graduate Trainee | DU | Aug. 2007 - Dec. 2007

- Graduate engineer in data switching and applications department

AWARDS AND RECOGNITIONS

- Best research paper, 18th International Conference on Intelligent Data Engineering and Automated Learning 2017
- Study abroad scholarship (Ph.D), the Scholarship Office, Sep. 2014 - Dec. 2018
- Study abroad scholarship (M.Sc), the Scholarship Office, Sep. 2010 - Sep. 2011
- Ministry of Education, 2009
- Mohammed Bin Rashid Sport and Physical Fitness Program, 2005
- Dubai shopping festival, 2003 - 2005

COURSES

- Emotional Intelligence, GLOMACS, Apr. 2014
- Creative Thinking and Innovative Problem Solving, the People Partnership, Mar. 2014
- Leadership Development, the People Partnership, Nov. 2013
- Performance Management, the People Partnership, May 2013
- Imperative and Object Oriented Programming, Khalifa University, Feb. 2013
- EFQM Leaders for Excellence, SYNA Development, Dec. 2012
- Fundamentals of ERDAS Imagine, Geo Systems, Nov.2012
- The Culture Track Program, Right Scope Consulting, Jan. 2012
- The Management Track Program, Right Scope Consulting, Jan. 2012
- Geomatica and OrthoEngine, PCI Geomatics, Oct. 2011
- Satellite Communication, Etisalat Academy, Jun. 2009
- Communication Skills and Presentation Skills, Brain power, Feb. 2009
- Time Management and Dealing with Stress, Brain power, Jan. 2009
- Effective Teamwork, Brain power, Dec. 2008

OTHER ACTIVITIES

- Invited reviewer, The 19th International Conference on Intelligent Data Engineering and Automated Learning, Oct. 2018
- Special session chair, IEEE International Conference on Imaging Systems and Techniques, Oct. 2017
- Keynote speaker, Society of Engineers, May 2012
- Volunteer, IEEE ICSPC 2007, Nov. 2007

SELECTED PUBLICATIONS

- C. Veys, F. Chatziavgerinos, **A. AlSuwaidi**, J. Hibbert, M. Hansen, G. Bernotas, M. Smith, H. Yin, S. Rolfe, and B. Grieve, "Multispectral imaging for presymptomatic analysis of light leaf spot in oilseed rape," *Plant Methods*, vol. 15, no. 4, pp. 1–12, 2019.
- **A. AlSuwaidi**, B. Grieve, and H. Yin, "Combining spectral and texture features in hyperspectral image analysis for plant monitoring," *Measurement Science and Technology*, vol. 29, no. 10, pp. 104001–104011, 2018.
- **A. AlSuwaidi**, B. Grieve, and H. Yin, "Feature-ensemble-based novelty detection for analyzing plant hyperspectral datasets," *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, vol. 11, no. 4, pp. 1041–1055, 2018.
- **A. AlSuwaidi**, B. Grieve, and H. Yin, "Towards spectral-texture approach to hyperspectral image analysis for plant classification," in *Proceeding of 18th International Conference on Intelligent Data Engineering and Automated Learning*, Guilin, China, 2017, pp. 251–260.
- **A. AlSuwaidi**, B. Grieve, and H. Yin, "Spectral-texture approach to hyperspectral image analysis for plant classification with SVMs," in *Proceeding of 2017 IEEE International Conference on Imaging Systems and Techniques*, Beijing, China, 2017, pp. 1–6.
- **A. AlSuwaidi**, C. Veys, M. Hussey, B. Grieve, and H. Yin, "Hyperspectral feature selection ensemble for plant classification," in *Proceeding of 2016 Hyperspectral Imaging and Applications*, Coventry, UK, 2016, pp. Session 4–12.00.
- **A. AlSuwaidi**, C. Veys, M. Hussey, B. Grieve, and H. Yin, "Hyperspectral selection based algorithm for plant classification," in *Proceeding of 2016 IEEE International Conference on Imaging Systems and Techniques*, Chania, Crete Island, Greece, 2016, pp. 395–400.