# Mohammadmehdi Saberioon

Curriculum Vitæ — July, 2019

Laboratory of Signal and Image Processing, Faculty of Fisheries and Protection of Waters University of South Bohemia in Ceske Budejovice

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website: goo.gl/kjGweP

### **EDUCATION**

2014	PhD in Precision Farming Engineering, Universiti Putra Malaysia
	Thesis: Determination of Chlorophyll and Nitrogen Content in Rice Leaves at Dif-
	ferent Growth Stages.
2010	MSc in Agrotechnology, Universiti Putra Malaysia
	Thesis: The Use of Remote Sensing and Geographic Information System to Determine
	the Spatial Distribution of <i>Melaleuca cajuputi</i> as a Major Bee Plant in Marang.
2004	BSc in Agricultural Engineering (Animal Science), Azad Islamic University,
	Iran

## PROFESSIONAL APPOINTMENTS

2018-	Scientific Researcher Department of soil science and soil protection,
	Czech university of life science, Prague, Czech Republic
2015-	Scientific Researcher Laboratory of signal and Image processing, Institute of Complex system, Faculty of Fisheries and protection of water University of South Bohemia in Ceske Budejovice, Czech Republic
2014-2014	<b>Lecturer</b> Asian leopard specialist society for $2^{nd}$ Persian leopard Regional workshop Iran.
2011–2013	Research and Teaching assistance Institute of advanced technologies Universiti Putra Malaysia
2011–2012	Secretary 11 <sup>th</sup> Asian Apiculture Association conference and Apiexpo Department of agriculture, Terengganu state, Malaysia
2010–2011	Research assistance Workgroup mega science work in Agriculture Academic science of Malaysia
2007–2008	Research and Teaching assistance Faculty of Agriculture Universiti Putra Malaysia.
2007-2008	Agriculture officer Farayand Memari Consulting Company, Iran

# **GRANTS & FELLOWSHIPS**

Evaluating fish fillet quality changes due to diet alteration using hyperspectral imaging. PI: **Saberioon**, **M.**, co-PI:Cisar, P.. AquaExcel2020 (grant agreement No. 652831) TNA. Award ID: AE080016.

- Personalized aquaculture non-invasive real-time fish identification. PI: Cisar, P., co-PI: Saberioon, M. AquaExcel2020 (grant agreement No. 652831) TNA. Award ID: AE050006.
- Automated fish sampling in RAS using IREF system. PI: **Saberioon, M.**, co-PI:Cisar, P.. AquaExcel2020 (grant agreement No. 652831) TNA. Award ID: AE020007.
- 2017–2019 RemoteGuard: In-land water quality monitoring using Sentinel-2A images. PI: Saberioon, M. TACR GAMA Amount: kč 996,000. Award ID: TG03010027.
- 2017–2019 A system for early detection of fish disease. PI: Cisar, P., co-PI: Saberioon, M.. TACR GAMA Amount: kĕ 998,400. Award ID: TG03010027.
- 2011–2013 Estimation of Mid-season nitrogen status and yield of rice by remote sensed data PI: Mohd Soom, M.A., **co-PI**: **Saberioon, M.**. RUGS Amount: 15000 RM. Award ID: 9199809.

## AWARDS & HONORS

2019	Dean's award for the best application result, Faculty of fisheries and protection of
	waters, University of South Bohemia, Czech Republic
2012 – 2013	Recipient of fellowship from Universiti Putra Malaysia (UPM), Malaysia
2007 – 2008	Recipient of fellowship from Universiti Putra Malaysia (UPM), Malaysia
2004 – 2005	Distinct student of research from Islamic Azad University (IAU), Iran
2001 – 2002	First rank in academic program, Islamic Azad University (IAU), Iran

## WORKSHOPS AND SHORT COURSES

Universiti Putra Malaysia

2017	Visual computing trends, Vienna, Austria
2016	Hyperspectral imaging in industry, Graz, Austria Chii 2017 – Perception park and Spectronet
2015	Precision Agriculture: The added value of geo-information and LBS University of Natural Resources and Life Sciences, Vienna (BOKU)
2013	Real-time image and video processing IEEE Malaysia
2012	Research Trend and Information Resources in Agriculture. CABI and University Putra Malaysia CABI and University Putra Malaysia Introduction of Teaching Universiti Putra Malaysia
2011	Image processing using Matlab, IEEE Malaysia IEEE Malaysia
2009	Academic writing,

## **PUBLICATIONS**

#### PEER-REVIEWED

in Review Saberioon, M., Cisar, P., Labbe, L., Souček, P., Pelissier, P., . Spectral Imaging Application to Discriminate Different Diets of Live Rainbow Trout (*Oncorhynchus mykiss*). In review at *Computers and Electronics in Agriculture*. PeerJ preprint 6:e26562v1 doi:10.7287/peerj.preprints.26562v1

Gholizadeh, A., **Saberioon, M.**, Viscarra Rossel, R. A., Boruvka, L., Klement, A.: Spectroscopic measurements and imaging of soil colour for soil organic carbon estimation. In review at *Geoderma*.

**Saberioon, M.**, Brom, J., Nedbal, V., Souček, P., Cisar, P.: Chlorophyll-a and Total Suspended Solids Retrieving and Mapping Using Sentinel-2 and Machine learning for Inland Waters. In review at *International Journal of Applied Earth Observation and Geoinformation*.

- 2019 Lonhus, K., Stys, D., **Saberioon, M.**, Rychtarikova, R.: Segmentation of laterally Symmetric overlapping objects: application to images of collective animal behaviour. *Symmetry*. doi:10.3390/sym11070866
- 2018 Gholizadeh, A., Zizala, D., **Saberioon, M.**, Boruvka, L.: Soil organic carbon and texture retrieving and mapping using proximal, airborne and Sentinel-2 spectral imaging. *Remote Sensing of Environment*. doi:10.1016/j.rse.2018.09.015.
  - Gholizadeh, A., **Saberioon, M.**, Carmon, N., Borůvka, L., Ben-Dor, E.:Examining the Performance of PARACUDA-II Data-Mining engine versus Selected Techniques to Model Soil Carbon from Reflectance Spectra. *Remote Sensing*. doi:10.3390/rs10081172.
  - **Saberioon, M.**, Cisar, P.: Automated Within Tank Fish Mass Estimation Using Infrared Reflection System. *Computers and Electronics in Agriculture* doi:10.1016/j.compag.2018.05.025
  - **Saberioon, M.**, Cisar, P., Labbe, L., Soucek, P., Pelissier, P., Kerneis, T.: Comparative performance Analysis of Support Vector Machine, Random forest, Logistic regression and k-nearest neighbours in Rainbow trout *(Oncorhynchus mykiss)* Classification Using Image-based Features. *Sensors*. doi:10.3390/s18041027
  - Gholizadeh, A., **Saberioon, M.**, Ben-Dor, E., Boruvka, L.: Monitoring of selected soil contaminants using proximal and remote sensing techniques: Background, State-of-the-Art and Future perspective. *Critical reviews in environmental science and technology*. doi:10.1080/10643389.2018.1447717
  - Cisar, P., **Saberioon, M.**, Pautsina, A, Kozak, P.: Fully contact less system for crayfish heartbeat monitoring: undisturbed crayfish as bio-indicator. *Sensors and Actuators B: Chemical.* doi:10.1016/j.snb.2017.07.160
- Saberioon, M., Gholizadeh, A., Cisar, P., Pautsina, A., Urban, J.: Application of Machine Vision Systems in Aquaculture with Emphasis on Fish: State-of-the-Art and Key Issues. *Reviews in Aquaculture* doi:10.1111/raq.12143
  - Gholizadeh, A., **Saberioon, M.**, Borüvka, L., Wayayok, A., Mohd Soom, M.A.: Leaf chlorophyll and nitrogen dynamics and relationship to lowland rice yield for site-specific paddy management. *Information Processing in Agriculture*. doi:10.1016/j.inpa.2017.08.002
- Gholizadeh, A., Borůvka, L., **Saberioon, M.**, Vat, R.: A Memory-Based Learning Approach as Compared to Other Data Mining Algorithms for the Prediction of Soil Texture Using Diffuse Reflectance Spectra. *Remote sensing* doi:10.3390/rs8040341
  - **Saberioon, M.**, Cisar, P.: Automate Multiple Fish Tracking in Three Dimension Using a Structured Light Sensor. *Computers and Electronics in Agriculture*. doi:10.1016/j.compag.2015.12.014
- Gholizadeh, A.,Boruvka, L., **Saberioon, M.**, Vašát, R., Kozak, J., Nemecek. K.: Comparing Different Data Preprocessing Methods for Monitoring Soil Heavy Metals Based on Soil Spectral Features. *Soil and Water Research* doi:10.17221/113/2015-SWR
  - Gholizadeh, A., Boruvka, L., **Saberioon, M.**: A Spectroscopic Approach to Assess Potentially Toxic Elements of Reclaimed Dumpsites in the Czech Republic. *International Journal of Environmental Science and Development* doi:10.7763/IJESD.2015.V6.659
  - Gholizadeh, A., Boruvka, L., Vašát, R., **Saberioon, M.**, Klement, A., Kratina, J., Tehnecky, V., Drabek, O.:Estimation of Heavy Metals Contamination in Anthropogenic Soils on a Brown Coal Mining Dumpsite Using Reflectance Spectroscopy: A Case Study. *PLoS ONE*. doi:10.1371/journal.pone.0117457
- 2014 **Saberioon, M.**, Mohd Soom, M.A., Gholizadeh, A., Ezri, M.H.: A Review of Optical Methods for Assessing Nitrogen Contents during Rice Growth. *Applied Engineering in Agriculture*. doi:10.13031/aea.30.10478
  - Gholizadeh, A., Mohd Soom, M.A., Boruvka, L., **Saberioon, M.**: Models for Paddy Soil Physical Properties Estimation Using Visible and Near Infrared Reflectance Spectroscopy. *Journal of Applied Spectroscopy* doi:10.1007/s10812-014-9966-x
  - **Saberioon, M.**, Mohd Soom, M.A., Anuar, A.R., Gholizadeh, A., Wayayok, A., Khirunniza-Bejo, S.: Assessment of Rice Leaf Chlorophyll Content Using Visible Bands at Different Growth Stages at Both Leaf and Canopy Scale. *International Journal of Applied Earth Observation and Geoinformation*. doi:10.1016/j.jag.2014.03.018

Gholizadeh, A., Borůvka, L., **Saberioon, M.**, Vašát, R.:Visible, near-infrared and mid-infrared spectroscopy application for soil assessment with emphasis to soil organic matter content and quality: State-of-the-art and key issues. *Applied Spectroscopy* doi:10.1366/13-07288

Gholizadeh, A., Mohd Soom, M.A., **Saberioon, M.**, Boruvka, L.: Visible and Near Infrared Spectroscopy for Assessment of Paddy Soil Chemical Properties. *Journal of Food, Agriculture and Environment.* 11 (2): 859-866 doi:10.1234/4.2013.4459

**Saberioon, M.**, Mohd Soom, M.A., Wayayok, A., Gholizadeh, A., Anuar, A.R.: Assessment of Colour Indices Derived from Conventional Digital Camera for Determining Nitrogen Status in Rice Plants. *Journal of Food, Agriculture and Environment.* 11 (2): 655-662 doi:10.1234/4.2013.4391

**Saberioon, M.**, Mohd Soom, M.A., Wayayok, A., Anuar, A.R., Gholizadeh, A.:Multispectral Images Tetracam Agriculture Digital to Estimate Nitrogen and Grain Yield of Rice at Different Growth Stages. *Philippine Agriculture Scientists.* 96(1): 108-112

- 2012 Ibrahim I. F., Balasundram S. K., Nur-Ashikin P Abdullah A. S., Alias M. S., Mardan M., **Saberioon, M.**: The Spatial Distribution of Apis Dorsata Host Plants Using an Integrated Geographical Information System-Remote Sensing Approach. *American Journal of Agricultural and Biological Sciences* doi:10.3844/ajabssp.2012.396.406
- Saberioon, M., Mardan M., Nordin L., Mohd Sood A.: Comparison of Fusion of Different Algorithms in Mapping of Melaleuca Forest in Marang District, Malaysia.

  Pertanika Journal of Science and Technology. 19(S): 97-105.

  Cholizadeh A. Mohd Soom M.A. Anuar A.B. Wayayak A. Saberioon M.: Tem-

Gholizadeh, A., Mohd Soom, M.A., Anuar A.R., Wayayok A., **Saberioon, M.**: Temporal Variability of SPAD Chlorophyll Meter Readings and its Relationship to Total Nitrogen in Leaves within a Malaysian Paddy Field. *Australian Journal of Basic and Applied Science*. 5(5): 236-245

Gholizadeh, A., Mohd Soom, M.A., Anuar A.R., **Saberioon, M.**: Water Stress and Natural Zeolite Impact on Phisiomorphological Characteristics of Moldavian Balm (Dracocephalum moldavica L.). Australian Journal of Basic and Applied Science. 4(10): 5184-5190

Gholizadeh, A., Mohd Soom, M.A., Anuar A.R., Esfahani M., **Saberioon, M.**: The Study on the Effect of Different Levels of Zeolit and Water Stress on Growth, Development and Essential Oil Content of Moldavian Balm (Dracocephalum moldavica L.). *American Journal of Applied Sciences*. Vol 7 (1): 33-37

**Saberioon, M.**, Mardan M., Nordin L., Mohd Sood A., Gholizadeh, A.:Predict Location(s) of Apis dorsata Nesting Sites Using Remote Sensing and Geographic Information System in Marang district, Terengganu Malaysia. *American Journal of Applied Sciences*. Vol 7 (2): 252-259

Saberioon, M., Mardan M., Nordin L., Mohd Sood A., Gholizadeh, A.: Fusion SPOT-5 and Radarsat-1 Images for Mapping Major Bee Plants in Marang District, Malaysia. European Journal of Scientific Researches. Vol 38 (3):465-47

#### CONFERENCE PROCEEDINGS

- 2019 Gholizadeh, A., **Saberioon, M.**, Viscarra Rossel, R., Boruvka, L., Klement, A. Estimation of Soil Organic Carbon using Colour Features Derived from Digital Camera. Oral presentation at *EGU General Assembly 2019*. Vienna, Austria, March 2019.
- Saberioon, M., Cisar, P., Labbe, L. In vivo Fish Diet Discrimination Using Selected Hyperspectral Image Classification Methods. Oral presentation at 9th Workshop on Hyperspectral Image and Signal processing: Evolution in Remote Sensing (IEEE-Whisper). Amsterdam, the Netherlands, September 2018. doi:10.1109/WHISPERS.2018.8747074. ISBN:978-1-7281-1581-8

Gholizadeh, A., Zizala, D., **Saberioon, M.**, Boruvka, L.. Sentinel-2 for soil organic carbon retrieving and mapping in central Europe. Oral presentation at *21st World congress of soil science*. Rio de Janeiro, Brazil, August 2018.

Saberioon, M., Cisar, P., Labbe, L., Soucek, P., Pelissier, P. Comparative study of different pre-processing methods for discriminating live fish based on hyperspectral Imagery. Oral presentation at *The Third international conference on advances in signal, image and video processing (Signal 2018)*, Nice, France, May 2018. Editors: Neves, A.J.R., Fesquet L., Trifan, A., Uhring W., Page: 21-24. ISBN: 978-1-61208-638-5.

- Gholizadeh, A., Zizala, D., **Saberioon, M.**, Boruvka, L.Soil organic carbon content monitoring and mapping using airborne and Sentinel-2 spectral imaging, Proc. SPIE 10773, Sixth international conference on Remote sensing and Geoinformation of the Environment (RSCy2018), Editor: Themistocleous K., Michaelides S., Ambrosia V., Papadavid G., Hadjimitsis D.G., 1077319. doi:10.1117/12.2323820. ISBN: 978-151062117-6.
- Saberioon, M., Cisar, P.Automated mass estimation of Sander lucioperca based on dorsal features using a time-of-flight camera. Oral presentation at *Aquaculture Europe* 2017. Dubrovnik, Croatia, October 2017.
  - Kozk, P., **Saberioon, M.**, Pautsina, A., Cisar, P.. New improvement of system for crayfish heartbeat monitoring: Fully contactless system undisturb crayfish as bio-indicator. *European Crayfish Conference 2017: The IAA Cruise 2017*, 16-18 August 2017, Helsinki (Finland) and Stockholm (Sweden), p 16.
  - Gholizadeh, A., **Saberioon, M.**, Ben-Dor, E., Boruvka, L.. Space-based Remote Imaging Spectroscopy of Soil Contamination. Poster presentation at 10th EARSeL SIG Imaging Spectroscopy Workshop, Zurich, Switzerland. 19-21 April 2017.
- Gholizadeh, A., **Saberioon, M.**, Boruvka, L.Memory based learning: A new data mining approach to model and interpret Clay diffuse reflectance spectra. Oral presentation at 7th Global digital soil mapping workshop, Aartus University, Denmark, 27 June-1 July 2016.
  - Saberioon, M., Cisar, P., Urban, J. 3D Single Point Imaging Technology for Tracking Multiple Fish. In Book of *Proceedings of the 9th International Joint Conference on Biomedical Engineering Systems and Technologies*, Volume 4: Biosignals. Rome, Italy, February 2016. P 115-121. ISBN: 978-989-758-170-0
  - Saberioon, M., Gholizadeh, A.Novel Approach for Estimating Nitrogen Content in Paddy Fields Using Low Altitude Remote Sensing System, *Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.*, XLI-B1, 1011-1015, doi:10.5194/isprs-archives-XLI-B1-1011-2016.
- Saberioon, M., Cisar, P., Kozak, P., Fot, M. Kinect-Based System for Monitoring Multiple Fish in An Aquarium. Oral presentation at *Aquaculture Europe* 2015, Rotterdam, Netherlands, October 2015.
  - **Saberioon, M.**, Gholizadeh, A.Application of multispectral cameras for estimating nitrogen and grain yield in paddy field. Poster presentation at *XIII Discussion in structural Molecular Biology*, Nove Hrady, Czech Republic, March 2015.
- Gholizadeh, A., Boruvka, L., **Saberioon, M.**A Spectroscopic Approach to Assess Potentially Toxic elements of Reclaimed Dumpsites in the Czech Republic. Oral Presentation at 2nd International Conference on Environment Pollution and Prevention (ICEPP 2014), Auckland, New Zealand, November 2014.
  - Gholizadeh, A., Boruvka, L., **Saberioon, M.** Visible and Near Infrared spectroscopy of Anthropogenic soils on a brown coal mining dumpsite. Oral Presentation at 20th world congress of soil science, Jeju Island, South Korea, June 2014.
- Gholizadeh, A., Boruvka, L., **Saberioon, M.**. Rapid assessment of soil chemical properties using Vis-NIR spectroscopy. Oral presentation at *Soil in Space at Time*, Ulm, Germany, September 2013.
  - Gholizadeh, A., **Saberioon, M.**, Mohd Soom, M.A.. Paddy soil nutrient assessment using visible and near infrared reflectance spectroscopy, *Proc. SPIE 8761, PIAGENG 2013: Image Processing and Photonics for Agricultural Engineering*, 87610S (March 4, 2013); doi:10.1117/12.2019664, Honghua Tan, Sanya, China, January 2013.
  - Gholizadeh, A., Mohd Soom, M.A., **Saberioon, M.**. Soil properties assessment using Vis-NIR spectroscopy. Oral presentation at the 11th International Conference on Precision Agriculture (11th ICPA), Indianapolis, Indiana, United States, July 2012.
- Saberioon, M., Mohd Soom, M.A., Gholizadeh, A.. Estimation of Nitrogen of Rice in Different Growth Stages Using Tetracam Agriculture Digital Camera. Oral presentation at the 11th International Conference on Precision Agriculture (11th ICPA), Indianapolis, Indiana, United States, July 2012.
- Gholizadeh, A., Mohd Soom, M.A., **Saberioon, M.**. Relationship between apparent electrical conductivity and soil physical properties in a Malaysian paddy field. Poster in 1st Spatial Statistics Conference 2011, Enschede, The Netherlands, March 2011.
- Saberioon, M., Gholizadeh, A., Traditional Water Tunnels (Qanats) in Iran. Paper presented at the 4th International conference on water resources and arid environment. Riyadh, Saudi Arabia. Dec 2010 (P233-238)

**Saberioon, M.**, Mardan M., Nordin L., Mohd Sood A., Gholizadeh, A.. Predict Location(s) of Apis dorsata Nesting Sites Using Remote Sensing and Geographic Information System in Melalaeuca forest. Poster presented at *PRPi2010*. *Universiti Putra Malaysia*, Serdang, Malaysia. July 2010.

**Saberioon, M.**, Mardan M., Nordin L., Mohd Sood A. Fusion SPOT-5 and Radarsat-1 Images for mapping Major bee plants in Marang district, Malaysia. Poster presented at *PRPi2010*. Universiti Putra Malaysia, Serdang, Malaysia, July 2010.

**Saberioon, M.**, Mardan M., Nordin L., Mohd Sood A., Gholizadeh, A.. Use the remote sensing and geographic information system to predict Apis dorsata nesting sites in Marang, Terengganu. Paper presented at the MRSS 6th International remote sensing and GIS conference and exhibition. Kuala Lumpur, Malaysia. April 2010

Saberioon, M., Mardan M., Nordin L., Mohd Sood A. Mapping Melaleuca Forest Using Fusion SPOT-5 and Radarsat-1 Images in Marang District, Malaysia. Paper presented at the International Advanced Technology Congress 2009 (ATCi2009), Kuala Lumpur, Malaysia Nov 2009

Gholizadeh, A., **Saberioon, M.**. Evaluation of leaf total Nitrogen content for Nitrogen management in a Malaysia Paddy field by using SPAD Cholorophyll meter. Paper presented at the Third Asian Conference on Precision Agriculture (3rd ACPA), Beijing, China Oct 2009

Gholizadeh, A., **Saberioon, M.**The Effect of Water stress and natural Zeolite on physio-morphological characteristics of Moldavian balm. Paper presented at the International Symposium of the Australian Society for Engineering in Agriculture 2009 (SEAg2009), Global warming, Brisbane, Australia Sep 2009

Mardan M., **Saberioon**, M., Nordin L., Mohd Sood A. Using remote sensing and GIS in locations prediction to establish rafter beekeeping (Tingku) Technique in Marang district, Malaysia. Paper presented at *the 41st Congress Apimondia 2009*, Montpelier, France Sep 2009

#### BOOK CHAPTER

- in Press Mustafa,B.M., Fadhil Al-Quraishi, A.M., Gholizadeh, A., **Saberioon, M.**. Chapter 5: Proximal Soil Sensing for Soil Monitoring. *Environmental Remote Sensing and GIS in Iraq*,Editors:Ayad M. Fadhil Al-Quraishi and Abdelazim M. Negm, Springer International Publishing Switzerland. doi:10.1007/978-3-030-21344-2<sub>5</sub>, ISBN:978-3-030-21343-5 (Print) 978-3-030-21344-2 (Online)
- Bekkozhayeva, D., **Saberioon, M.**, Cisar, P.. Image Based Individual Identification of Sumatra Barb (Puntigrus Tetrazona). *Bioinformatics and Biomedical Engineering*, pp 116-119, Editors: Rojas I., Valenzuela O., Rojas F., Ortuo F., Springer International Publishing Switzerland, doi:10.1007/978-3-030-17938-0<sub>1</sub>1, ISBN: 978-3-030-17937-3 (Print) 978-3-030-17938-0 (Online)
- Stys, D., Nahlik, T., Machek, P., Rychtrikov, R., **Saberioon, M.**. Least Information Loss (LIL) Conversion of Digital Images and Lessons Learned for Scientific Image Inspection. *Bioinformatics and Biomedical Engineering*, pp 527-536, Editors: Ortuo, F., Rojas, I., Springer International Publishing Switzerland, doi:10.1007/978-3-319-31744-1<sub>4</sub>7, ISBN: 978-3-319-31743-4 (Print) 978-3-319-31744-1 (Online)

## GRANTED PATENTS

- Cisar, P., **Saberioon, M.**, Soucek, P. Contactless detection of fish disease and devises for carrying out this method, Czech Industrial property office, Praha. patent number: 307309.
- Cisar, P., **Saberioon, M.**, Fort, M., Kozak, P. Detection and visualization method of spatial trajectories of movement of water animals and apparatus for making the same. Czech Industrial property office, Praha. patent number. 305982.

# SOFTWARE

2018- RemoteGuard - http://auc.cz/software/2018.php - A Python interface for Water quality monitoring using Sentinel-2.

2018- RemoteChange - http://auc.cz/software/2018.php - A Python interface for Water quality change tracking using Sentinel-2.

#### **TEACHING**

2014 Introduction to remote sensing, GIS and GPS:

2nd Persian Leopard Regional Workshops.

Organized by Asian Leopard Specialist Society and funded by United Nation Devel-

opment program (UNDP) and Department of Environment of Iran.

2012–2013 Precision Agriculture

MSc. in Agricultural Engineering – Universiti Putra Malaysia

2012–2013 Precision Irrigation

MSc. in Agricultural Engineering – Universiti Putra Malaysia

2008–2009 Agriculture and Human

BŠc in Agriculture – Universiti Putra Malaysia

#### STUDENT SUPERVISION

2019–2023 Hassan Nazari (PhD student – co-Supervisor)

Research topic: Changes in fish behaviour under stress conditions.

Institute of Complex system, University of South Bohemia, Czech Republic.

2018 Vojtch Vrba, Seyed Ali SadatMousavi (Summer school students - Supervisor)

Project title: Deep learning for Hyperspectral imagery classification

Institute of Complex system, University of South Bohemia, Czech Republic.

Itzel Fernanda Marban Salinas (Summer school students - Supervisor)

Project title: Water feature extraction and change detection using Multi-Temporal Sentinel-2A imagery.

Institute of Complex system, University of South Bohemia, Czech Republic.

2010–2012 Fatimah Izzat bt Ibrahim (Master student – Co-Supervisor)

Faculty of Agriculture, Universiti Putra Malaysia.

#### **OUTREACH**

2016

2017

2009 Documentry for Channel Discovery Asia: Eye on Malaysia: Honey Hunters., YouTube link

## **PRESENTATIONS**

2018 [Invited] – Saberioon, M.. Application of Machine Vision System in Aquaculture, The Norwegian colour and computing laboratory, NTNU, Nov 2018, Gjvik, Norway.

[Invited] - Saberioon, M.. Introduction in Remote Sensing, Institute of Complex

System, FROV, JCU, Nove Hrady, Czech republic.

#### ACADEMIC SERVICE & AFFILIATIONS

#### COMMITTEES

2011–2012 Secretary for the Student Chapter of Malaysian remote sensing and GIS Society.

## REVIEWER

2019 Remote sensing, Aquaculture, Computers and Electronics in Agriculture, Sensors, Royal Society Open Science, Aquaculture engineering, Environmental monitoring ans assessment, International journal of Remote sensing

2018	Remote sensing, Journal of sensors, Sensors. Aquaculture, Computers and Electronics in Agriculture, PlosONE, European journal of remote sensing, Science of total environment.
2017	Computers and Electronics in Agriculture, International journal of Food properties, Environment development, Agriculture, Remote sensing, International journal of geo-information, Infrared physic and technology, Journal of Imaging, Sensors.
2016	Scientific reports, Aquaculture engineering, Rice science
2015	Journal of integrative Agriculture
2014	PLoS One, International journal of remote sensing, Chinese optic letters

# **AFFILIATIONS**

 $\rm IEEE-IEEE$  Signal Processing Society – International Society of Precision Agriculture – Malaysian Remote Sensing Society – International Society for Horticulture Science – IEEE Geoscience and Remote Sensing Society