

ASA GHOLIZADEH

Research Scientist, Czech University of Life Sciences Prague

Department of Soil Science and Soil Protection,
Faculty of Agrobiolgy, Food and Natural Resources,
Czech University of Life Sciences Prague,
16500, Kamycka 129, Praha 6, Czech Republic
Phone: +420224382633
Email: gholizadeh@af.czu.cz

CAREER SUMMARY

More than 10 years of experience in academia as consultant and research scientist, both in agriculture and environments in Asia and Europe. My career has covered the broad range of sustainable management of crop and soil resources and application of remote sensing and geographic information system, precision agriculture, covering all aspects of engineering, management and strategic analysis. More recent works addressed soil management of the Czech Republic, France, Germany, Australia and Israel associated with VNIR/SWIR hyperspectral airborne and superspectral satellite data.

QUALIFICATIONS

Researcher; Soil Digital Mapping

- Department of Soil Science and Soil Protection, School of Agrobiolgy, Food and Natural Resources, Czech University of Life Sciences Prague, Czech Republic, July 2015-Present

Project 1: Soil Spectral Library of Czech Republic

Project 2: Digital Soil Mapping of Czech Soils

Project 3: Mapping of Contaminated Soils using On-line Diffuse Reflectance Spectroscopy, Hyper and Superspectral Remote Sensing

Researcher; Hyper and Superspectral Remote Sensing Application on Vegetation and Soil

- Czech Geological Survey, Prague, Czech Republic, March 2016-March 2018

Project 1: Modelling Soil Degradation using Superspectral Orbital Data

Postdoctoral Research; Soil Modeling

- Department of Soil Science and Soil Protection, School of Agrobiolgy, Food and Natural Resources, Czech University of Life Sciences Prague, Czech Republic, April 2013-June 2015

Project 1: Remotely sensed Modeling of Soil Parameters using Multispectral and Hyperspectral Remote Sensing

Project 2: Soil Properties Management using Proximal Sensing

Postdoctoral Research; Precision Agriculture

- Department of Agricultural and Biosystem Engineering, School of Engineering, University Putra Malaysia, Malaysia, May 2012-March 2013

Project 1: Soil Nutrient Prediction using Spectrometry

Project 2: Crop Nutrient Management using Remote Sensing and Optical Sensors

Ph.D.; Precision Agriculture

- Department of Agricultural and Biosystem Engineering, School of Engineering, University Putra Malaysia, Malaysia, January 2007-August 2011

Project 1: Crop Nutrient Temporal and Spatial Variability

Project 2: Soil Attribute Assessment and Prediction using Electrical Conductivity and Spectroradiometry

M.Sc.; Agricultural Engineering, Agronomy

- Department of Agronomy, School of Agriculture, Guilan University, Iran, September 2002-February 2005

Project 1: Water Stress and Natural Zeolite Impacts on Crop Characteristics

B.Sc.; Agricultural Engineering, Agronomy

- Department of Agronomy, School of Agriculture, Ferdowsi University of Mashhad, Iran, September 1998-June 2002

Project 1: Remote Sensing

VISITING RESEARCH SCHOLAR

- Visiting Research Scholar; The French National Institute of Agricultural Research (INRA), Montpellier, France, September 2014 to December 2014, Supervisor: Dr. Cecile Gomez
- Visiting Research Scholar; German Research Centre for Geosciences (GFZ), Potsdam, Germany, June 2017 to July 2017, Supervisor: Dr. Sabine Chabrillat
- Visiting Research Scholar; The Commonwealth Scientific and Industrial Research Organization (CSIRO), Canberra, Australia, October 2018 to December 2018, Supervisor: Prof. Raphael Viscarra Rossel

WORK EXPERIENCES

Research Experience

- Researcher; Czech Geological Survey, Prague, Czech Republic, March 2016-February 2017
- Researcher; Department of Soil Science and Soil Protection, School of Agrobiology, Food and Natural Resources, Czech University of Life Sciences Prague, Czech Republic, July 2015-Present
- Postdoctoral Research Fellow; Department of Soil Science and Soil Protection, School of Agrobiology, Food and Natural Resources, Czech University of Life Sciences Prague, Czech Republic, April 2013-June 2015
- Postdoctoral Research Fellow; Department of Agricultural and Biosystem Engineering, School of Engineering, University Putra Malaysia, Malaysia, May 2012-March 2013
- Researcher; Pidmas SMART Farming Sdn. Bhd, Kuala Lumpur, Malaysia, September 2011-April 2012
- Ph.D. Scholar; Precision Agriculture, Department of Agricultural and Biosystem Engineering, School of Engineering, University Putra Malaysia, Malaysia, 2007-2011
- Research Fellow; Department of Agricultural and Biosystem Engineering, School of Engineering, University Putra Malaysia, Malaysia, January 2010-April 2012
- Research and Teaching Assistant; Department of Agricultural and Biosystem Engineering, School of Engineering, University Putra Malaysia, Malaysia, July 2007-December 2009

Teaching Experience

- E-Tutor; Department of Soil Science and Soil Protection, School of Agrobiolgy, Food and Natural Resources, Czech University of Life Sciences Prague, Czech Republic, July 2015-September 2015
Soil Spectroscopy
- Tutor; Department of Soil Science and Soil Protection, School of Agrobiolgy, Food and Natural Resources, Czech University of Life Sciences Prague, Czech Republic, October 2013-June 2015
Soil and Crop Spectroscopy
Precision Agriculture in Pastures and Livestock
Precision Agriculture in Grassland Management
Remote Sensing
- Teaching Assistant; Smart Farming Technology Research Center, Institute of Advanced Technology, University Putra Malaysia, Malaysia, January 2008-December 2009
Soil Science
Agronomy
Precision Agriculture
Precision Irrigation
Geostatistical Analysis

RESEARCH GRANTS AND FUNDS

- *Soil contamination assessment using hyperspectral orbital data*. Founded by the Czech Science Foundation (2018–2021) (Ongoing)
- *World soil monitoring system*. Founded by the European Space Agency (2020–2022)

HONOURS AND AWARDS

- Workshop fellowship and travel grant to attend the Hyperspectral Remote Sensing and Soil Application Workshop, EUFAR, 2016, Germany
- Conference fellowship to attend as an invited speaker in annual meeting of Western Society of Crop Science, Bozeman, Montana, United States, 2014
- Grant for postdoctoral research fellowship from European Union, Prague, Czech Republic, European Union, 2013
- Honor first class in Ph.D. degree (CGPA 3.9 of 4), 2011
- Conference fellowship and travel grant to attend the Prince Sultan Bin Abdulaziz International Prize for Water, Riyadh, Saudi Arabia, 2010
- Conference fellowship and travel grant to attend the BioVision Alexandria by The Bibliotheca Alexandrian, and The Academy of Sciences for the Developing countries (TWAS), Alexandria, Egypt, 2010
- Grant for graduate research assistantship from University Putra Malaysia, Malaysia, 2010
- Grant for graduate research fellowship from University Putra Malaysia, Malaysia, 2007
- Governmental fellowship for M.Sc. study from Ministry of Science and Technology, Iran, 2002
- Governmental fellowship for B.Sc. study from Ministry of Science and Technology, Iran, 1998

NATIONAL AND INTERNATIONAL ACADEMIC COLLABORATIONS

- The Commonwealth Scientific and Industrial Research Organization (CSIRO), Canberra, Australia
- German Research Centre for Geosciences (GFZ), Potsdam, Germany
- Tel-Aviv University (TAU), Tel-Aviv Yafo, Israel
- Severoceske Doly, a.s., Chomutov Mining Company, Prague, Czech Republic

- The French National Institute of Agricultural Research (INRA), Montpellier, France
- University of South Bohemia (JCU), Ceske Budejovice, Czech Republic
- Czech Geological Survey (CGS), Prague, Czech Republic
- Malaysia Department of Agriculture (DOA), Kuala Lumpur, Malaysia
- Malaysian Remote Sensing Agency (MRSA), Kuala Lumpur, Malaysia
- Forests and Pastures Research Center, Tehran, Iran
- Iran Ministry of Agriculture and Natural Resources, Mashhad, Iran

WORKSHOP AND TRAINING COURSES

- Imaging Spectroscopy Workshop, EARSeL SIG, 2019, Czech Republic
- Imaging Spectroscopy Workshop, EARSeL SIG, 2017, Switzerland
- Workshop on Hyperspectral Remote Sensing and Soil Application, EUFAR, 2016, Germany
- Workshop on Global Soil Digital Mapping, 2016, Denmark
- Workshop on Image Spectroscopy Concepts, Algorithms, and Applications, ISPRS Geospatial Week, 2015, France
- Imaging Spectroscopy Workshop, EARSeL SIG, 2015, Luxembourg
- Multivariate Analysis of Spectroscopic Data, CAMO Software, 2014, Netherlands
- Multivariate Data Analysis, CAMO Software, 2014, Netherlands
- Lecturing, Teaching and Time Management Skills, Czech University of Life Sciences, 2013, Czech Republic
- Workshop on Research Trend and Information Resources in Agriculture, CABI and University Putra Malaysia, 2012, Malaysia
- Introduction on Remote Sensing Software, University Putra Malaysia, 2010, Malaysia
- Precision Farming, Challenges and Future Directions, 2010, Malaysia
- Geostatistics, October 2009, Malaysia
- Academic Writing, University Putra Malaysia, 2009, Malaysia
- GIS for Forest Resources Management, 2009, Malaysia
- Paddy Precision Farming, Malaysian Agricultural Research and Development Institute, 2008, Malaysia
- GIS Application in Environmental Science, University Putra Malaysia, 2007, Malaysia

CORE COMPETENCIES

Technical Skills

- Precision Agriculture
- Agricultural Technology
- Geographic Information System
- Soil and Crop Spectroscopy
- Chemometrics
- Data Mining
- Proximal Sensing
- Remote Sensing
- Hyperspectral Remote Sensing
- Signal Processing
- Soil-Vegetation-Atmosphere Transfer
- Statistical and Geostatistical Analysis

Associated Skills

- Leadership experience and skills
- Team work
- Self-management
- Problem solving
- Communication
- Planning and organization
- Adoptability, commitment and integrity

MEMBERSHIPS

Scientific Societies and Professional Associations

- International Society of Precision Agriculture
- Malaysian Remote Sensing Society

Guest Editor

- Remote Sensing (Monitoring Soil Degradation by Remote Sensing)
- Remote Sensing (Bridging the Proximal and Remote Sensing Spectroscopy for Soil Properties Estimation and Monitoring)

Editorial Boards

- Information Processing in Agriculture
- Pedosphere
- South African Journal of Plant and Soil
- Trends in Agricultural Economics

Jury Members

- HyperALGO Project (Czech-Israeli Project)

MEMBERSHIPS

PhD Student

- Digital Soil Mapping and Fusion of Remote Sensing Techniques for Soil Organic Carbon Assessment

MSc Student

- Improvement of the High-Resolution Layer Imperviousness using Orbital Sentinel-2 Sensor

PUBLICATIONS

Peer-Review

- **Gholizadeh, A.**, Saberioon, M.M., Viscarra Rossel, R., Kratina, J., Borůvka, L. and Pavlů, L. (2021). National-Scale Spectroscopic Assessment of Soil Organic Carbon in Forests of the Czech Republic. *Geoderma* 385: 114832.

- **Gholizadeh, A.**, Saberioon, M.M., Ben-Dor, E., Viscarra Rossel, R., Borůvka, L. (2020). National spectral data and learning algorithms for potentially toxic elements modelling in forest soil horizons. *Environmental Pollution* 267:115574.
- **Gholizadeh, A.**, Saberioon, M.M., Viscarra Rossel, R., Klement, A. and Borůvka, L. (2020). Spectroscopy, spectral imaging and colour features for soil organic carbon estimation under visible spectrum. *Geoderma* 357: 113972.
- Chabrillat, S., **Gholizadeh, A.**, Neumann, C., Berger, D., Milewski, R., Ogen, Y. and Ben-Dor, E. (2019). Preparing a soil spectral library using the internal soil standard (ISS) method: Influence of extreme different humidity laboratory conditions. *Geoderma* 355: 113855.
- **Gholizadeh, A.**, Kopačková, V. (2019). Detection of vegetation stress as a proxy of soil contamination: A review of optical proximal and remote sensing techniques. *International Journal of Environmental Science and Technology* 16(4): 1-14.
- **Gholizadeh, A.**, Žížala, D., Saberioon, M.M. and Borůvka, L. (2018). Soil organic carbon and texture retrieving and mapping using proximal, airborne and Sentinel-2 spectral imaging. *Remote Sensing of Environment* 218: 89-103.
- **Gholizadeh, A.**, Saberioon, M.M., Carmon, N., Borůvka, L. and Ben-Dor, E. (2018). Examining the performance of PARACUDA-II data-mining engine versus selected techniques to model soil carbon from reflectance spectra. *Remote Sensing* 10(8): 1172.
- **Gholizadeh, A.**, Saberioon, M.M., Borůvka, L. and Ben-Dor, E. (2018). Monitoring of selected soil contaminants using proximal and remote sensing techniques: Background, state-of-the-art and future perspectives. *Critical Reviews in Environmental Science and Technology* 48(3): 243-278.
- **Gholizadeh, A.**, Carmon, N., Klement, A., Ben-Dor, E. and Borůvka, L. (2017). Agricultural soils spectral response and properties assessment: Effect of measurement protocol and data mining technique. *Remote Sensing* 9(10): 1078.
- **Gholizadeh, A.**, Saberioon, M.M., Borůvka, L. and Aimrun, W. (2017). Leaf chlorophyll and nitrogen dynamics and its relationship with double-cropping rice yield for site-specific paddy field management. *Information Processing in Agriculture* 4(2017): 259-268.
- **Gholizadeh, A.**, Mišurec, J., Kopačková, V., Mielke, C. and Rogass, C. (2016). Assessment of red-edge position extraction techniques: A case study for Norway spruce forests using HyMap and simulated Sentinel-2 data. *Forests* 7(10): 226.
- Saberioon, M.M. and **Gholizadeh, A.** (2016). Novel approach for estimating nitrogen content in paddy fields using low altitude remote sensing system. *ISPRS - International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences* XLI-B1: 1011-1015.
- Gomez, C., **Gholizadeh, A.**, Borůvka, L. and Lagacherie, P. (2016). Using legacy data for correction of soil surface clay content predicted from VNIR/SWIR hyperspectral airborne images. *Geoderma* 276:84-92.
- **Gholizadeh, A.**, Borůvka, L., Saberioon, M.M. and Vašát, R. (2016). A memory based learning approach as compared to other data mining algorithms for the prediction of soil texture using diffuse reflectance spectra. *Remote Sensing* 8(4): 341.
- Saberioon, M.M., **Gholizadeh, A.**, Cisar, P., Pautsina, A. and Urban, J. (2016). Application of machine vision systems in aquaculture with emphasis on fish: State-of-the-art and key issues. *Reviews in Aquaculture* 0: 1-18, doi: 10.1111/raq.12143.
- **Gholizadeh, A.**, Borůvka, L., L., Saberioon, M.M., Vašát, R., Kozák, J. and Němeček, K. (2015). Comparing different data preprocessing methods for monitoring soil heavy metals based on soil spectral features. *Soil and Water Research* 10(4): 218-227.
- **Gholizadeh, A.**, Borůvka, L., Vašát, R., Saberioon, M.M., Klement, A., Kratina, J., Tejnecký, V. and Drábek, O. (2015). Estimation of heavy metals contamination in anthropogenic soils on a brown coal mining dumpsite by reflectance spectroscopy: A case study. *Plos One* 10(2): e0117457.

- Saberioon, M.M., Amin, M.S.M. and **Gholizadeh, A.** (2014). Digital cameras for assessing chlorophyll and nitrogen contents in Rice: Critical review and research perspectives. *Applied Engineering in Agriculture* 30(4): 657-669.
- Vašát, R., Kodešová, R., Borůvka, L., Klement, A., Jakšík, O. and **Gholizadeh, A.** (2014). Consideration of peak parameters derived from continuum-removed spectra to predict extractable nutrients in soils with visible and near-infrared diffuse reflectance spectroscopy (VNIR-DRS). *Geoderma* 232-234: 208-218.
- Saberioon, M.M., Amin, M.S.M., Anuar, A.R., **Gholizadeh, A.**, Aimrun, W. and Khironiza Bejo. (2014). Assessment of rice leaf chlorophyll content using visible bands at different growth stages. *International Journal of Applied Earth Observation and Geoinformation* 32: 35-45.
- **Gholizadeh, A.**, Amin, M.S.M., Borůvka, L. and Saberioon, M.M. (2014). Models for paddy soil physical properties estimation using visible and near infrared reflectance spectroscopy. *Journal of Applied Spectroscopy* 81(3): 487.1-487.6.
- Aimrun, W., **Gholizadeh, A.**, Asminda, J.N.A. and Amin, M.S.M. (2014). Development of on-The-go soil organic matter sensor. *Indian Journal of Agricultural Sciences* 84(10): 1201-1204.
- Saberioon, M.M., Amin, M.S.M., Aimrun, W., Anuar, A.R. and **Gholizadeh, A.** (2013). Estimation of nitrogen and grain yield of rice in different growth stages using multi-spectral images tetacam agriculture digital camera. *Philippine Agricultural Scientist* 96(1): 116-121.
- Saberioon, M.M., Amin, M.S.M., Aimrun, W., **Gholizadeh, A.** and Anuar, A.R. (2013). Assessment of colour indices derived from conventional digital camera for determining nitrogen status in rice plant. *Journal of Food, Agriculture and Environment* 11(2): 655-662.
- **Gholizadeh, A.**, Borůvka, L., Saberioon, M.M. and Vašát, R. (2013). 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* 67(12): 1349-1362.
- **Gholizadeh, A.**, Amin, M.S.M., Saberioon, M.M. and Borůvka, L. (2013). Visible and near infrared spectroscopy for assessment of paddy soil chemical properties. *Journal of Food, Agriculture and Environment* 11(2): 859-866.
- **Gholizadeh, A.**, Amin, M.S.M., Anuar A.R. and Aimrun, W. (2012). Relationship between apparent electrical conductivity and soil physical properties in a Malaysian paddy field. *Archives of Agronomy and Soil Science* 58(2): 155-168.
- **Gholizadeh, A.**, Amin, M.S.M., Anuar A.R. and Aimrun, W. (2011). Using SPAD chlorophyll meter for two growth stages to assess grain yield of Malaysian rice (*Oryza sativa*). *American Journal of Agricultural and Biological Sciences* 6(2): 209-213.
- **Gholizadeh, A.**, Amin, M.S.M., Anuar A.R., Aimrun, W. and Saberioon, M.M. (2011) 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.**, Amin, M.S.M., Anuar A.R. and Aimrun, W. (2011). Apparent electrical conductivity in correspondence to soil chemical and plant nutrients in soil. *Communication in soil Science and Plant Analysis* 42(5): 1-15.
- Aimrun, W., Amin, M.S.M. and **Gholizadeh, A.** (2010). Spatial variability of irrigation water percolation rates and its relation to rice productivity. *American Journal of Applied Sciences* 7(1): 51-55.
- Saberioon, M.M., Mardan, M., Nordin, L., Mohd Sood, A. and **Gholizadeh, A.** (2010). 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* 7(2): 252-259.
- **Gholizadeh, A.**, Amin, M.S.M., Anuar A.R., Esfahani, M. and Saberioon, M.M. (2010). 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* 7(1): 33-37.

- **Gholizadeh, A.**, Amin, M.S.M., Anuar A.R., Esfahani, M. and Saberioon, M.M. (2010). 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.
- Saberioon, M.M., **Gholizadeh, A.** and Amin, M.S.M. (2010). Traditional water tunnels (Qanats) in Iran. *International Journal of Water Resources and Arid Environments* 4: 233-238.
- Saberioon, M.M., Mardan, M., Nordin, L., Mohd Sood, A. and **Gholizadeh, A.** (2009). Fusion SPOT-5 & Radarsat-1 images for mapping major bee plants in Marang district, Malaysia. *European Journal of Scientific Research* 38(3): 465-473.
- **Gholizadeh, A.**, Amin, M.S.M., Anuar A.R. and Aimrun, W. (2009). Evaluation of SPAD chlorophyll meter in two different rice growth stages and its temporal variability. *European Journal of Scientific Research* 37(4): 591-598.
- **Gholizadeh, A.**, Amin, M.S.M., Anuar A.R. and Aimrun, W. (2009). Evaluation of leaf total nitrogen content for nitrogen management in a Malaysian paddy field by using soil plant analysis development chlorophyll meter. *American Journal of Agricultural and Biological Sciences* 4(4): 278-282.
- **Gholizadeh, A.**, Esfahani, M. and Azizi, M. (2007). The study on the effect of different levels of zeolit and water stress on characteristics and quality of moldavian balm. *Pajouhesh & Sazandegi in Natural Resources* 73(4): 96-102.

Conferences

- **Gholizadeh, A.**, Saberioon, M.M., Viscarra Rossel, R., Borůvka, L. and Klement, A. (2019). Spectroscopy, spectral imaging and colour features for soil organic carbon estimation under visible spectrum. Oral presentation at World soil users consultation meeting, Frascati, Italy, July 2019.
- **Gholizadeh, A.**, Saberioon, M.M., Viscarra Rossel, R., Borůvka, L. and Klement, A. (2019). Estimation of soil organic carbon using colour features derived from digital camera. Oral presentation at EGU General Assembly, Vienna, Austria, April 2019.
- **Gholizadeh, A.**, Saberioon, M.M., Carmon, N., Borůvka, L. and Ben-Dor, E. (2019). PARACUDA-II engine as compared to other data-mining algorithms for the prediction of soil carbon using diffuse reflectance spectra. Oral presentation at 11th EARSeL SIG Imaging Spectroscopy Workshop, Brno, Czech Republic, February 2019.
- **Gholizadeh, A.**, Žížala, D., Saberioon, M.M. and Borůvka, L. (2018). Sentinel-2 for soil organic carbon retrieving and mapping in central Europe. Oral presentation at the 21st Congress of Soil Science, Rio de Janeiro, Brazil, August 2018.
- **Gholizadeh, A.**, Žížala, D., Saberioon, M.M. and Borůvka, L. (2018). Soil organic matter and clay monitoring and mapping using airborne and Sentinel-2 spectral imaging. Oral presentation at the Sixth International Conference on Remote Sensing and Geoinformation of Environment, Paphos, Cyprus, March 2018.
- **Gholizadeh, A.**, Žížala, D., Saberioon, M.M. and Borůvka, L. (2018). Prediction of agricultural soil properties: Effects of spectral measurement protocol and data mining technique. Oral presentation at the Bonares, Soil as a Sustainable Resource, Berlin, Germany, February 2018.
- **Gholizadeh, A.**, Carmon, N., Klement, A., Borůvka, L., Ben-Dor, E. and Chabrilate, S. (2017). Effects of measurement protocols and data mining techniques on soil proxy model extraction: A Czech case study. Poster presentation at Pedometrics, Wageningen, Netherlands, June 2017.
- **Gholizadeh, A.**, Saberioon, M.M., Ben-Dor, E. and Borůvka, L. (2017). Space-based remote imaging spectroscopy of soil contamination. Poster presentation at 10th EARSeL SIG Imaging Spectroscopy Workshop, Zurich, Switzerland, April 2017.
- **Gholizadeh, A.**, Saberioon, M.M. and Borůvka, L. (2016). Memory based learning: A new data mining approach to model and interpret clay diffuse reflectance spectra. Oral presentation at the 13th

International Conference on Precision Agriculture (13th ICPA), St. Louis, Missouri, United States, July 2016.

- Saberioon, M.M. and **Gholizadeh, A.** (2016). Novel approach for estimating nitrogen content in paddy fields using low altitude remote sensing system. Oral presentation at the 23rd International Society of Photogrammetry and Remote Sensing (23rd ISPRS), Prague, Czech Republic, July 2016.
- **Gholizadeh, A.**, Kopačková, V., Rogass, C., Mielke, C. and Mišurec, J. (2016). Extracting forest canopy characteristics from remote sensing imagery: Implications for Sentinel-2 mission. Poster presentation at European Space Agency- Living Plant Symposium 2016, Prague, Czech Republic, May 2016.
- Gomez, C., **Gholizadeh, A.**, Borůvka, L. and Lagacherie, P. (2015). Using legacy soil data for standardizing predictions of topsoil clay content obtained from VNIR/SWIR hyperspectral airborne images. Oral presentation at Pedometrics conference, Cordoba, Spain, September 2015.
- Saberioon, M.M. and **Gholizadeh, A.** (2015). Application of multispectral cameras for estimating nitrogen and grain yield in paddy fields. Poster presentation at 13th Discussion in Structural Molecular Biology, Nove Hrad, Czech Republic, March 2015.
- **Gholizadeh, A.**, Borůvka, L. and Saberioon, M.M. (2014). A spectroscopic approach to assess potentially toxic elements of reclaimed dumpsites in the Czech Republic. Oral presentation at the 2nd International Conference on Environment Pollution and Prevention (ICEPP 2014), Auckland, New Zealand, November 2014.
- **Gholizadeh, A.**, Borůvka, L., Vašát, R. and Saberioon, M.M. (2014). Visible and near infrared spectroscopy for monitoring potentially toxic elements in reclaimed dumpsite soils of the Czech Republic. Oral presentation at the 12th International Conference on Precision Agriculture (12th ICPA), Sacramento, California, United States, July 2014.
- **Gholizadeh, A.**, Borůvka, L., Vašát, R., Saberioon, M.M., Klement, A. and Kratina, J. (2014). Visible and near infrared spectroscopy of anthropogenic soils on brown coal mining dumpsites. Poster presentation at 20th Congress of Soil Science, Jeju Island, Republic of Korea, June 2014.
- **Gholizadeh, A.**, Borůvka, L. and Saberioon, M.M. (2013). Common chemometric indicators for prediction of soil organic matter content and quality from soil spectra: A review and research perspective. Oral presentation at International Workshop of Soil Spectroscopy: The Present and Future of Soil Monitoring, FAO, Rome, Italy, December 2013.
- **Gholizadeh, A.**, Borůvka, L. and Saberioon, M.M. (2013). Rapid assessment of soil chemical properties using Vis-NIR spectroscopy. Oral presentation at Soil in Space and Time, Ulm, Germany, September 2013.
- **Gholizadeh, A.** and Borůvka, L. (2013). Reflectance spectroscopy as a tool for assessment of soil organic carbon content: A review. Poster at Soil in Space at Time, Ulm, Germany, September 2013.
- **Gholizadeh, A.**, Amin, M.S.M. and Saberioon, M.M. (2013). Paddy soil nutrient assessment using visible and near infrared reflectance spectroscopy. Oral presentation at International Conference on Photonics and Image in Agriculture Engineering (PIAGENG 2013), Sanya, China, January 2013.
- **Gholizadeh, A.**, Amin, M.S.M. and Saberioon, M.M. (2012). 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.
- **Gholizadeh, A.**, Amin, M.S.M. and Saberioon, M.M. (2011). 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.
- **Gholizadeh, A.**, Saberioon, M.M. and Amin, M.S.M. (2009). Non-destructive estimation of nitrogen status using SPAD chlorophyll meter in two different rice growth stages. Oral presentation at the International Advanced Technology Congress 2009 (ATCi2009), Kuala Lumpur, Malaysia, November 2009.

- **Gholizadeh, A.**, Amin, M.S.M., Anuar A.R. and Aimrun, W. (2009). Evaluation of leaf total nitrogen content for nitrogen management in a Malaysian paddy field by using SPAD chlorophyll meter. Oral presentation at the 3rd Asian Conference on Precision Agriculture (3rd ACPA), Beijing, China, October 2009.
- **Gholizadeh, A.** and Saberioon, M.M. (2009). The effect of water stress and natural zeolite on physiological characteristics of moldavian balm. Oral presentation at the International Symposium of the Australian Society for Engineering in Agriculture 2009 (SEAg2009), Global warming, Brisbane, Australia, September 2009.
- **Gholizadeh, A.**, Esfahani, M. and Azizi, M. (2005). The study on the effect of different levels of zeolite and water stress on characteristics and quality of moldavian balm. Poster at the National Congress on Sustainable Development of Medicinal Plants, Mashhad, Iran, July 2005.