CURRICULUM VITAE

Biswajeet Pradhan, PhD
Distinguished Professor and Director
Centre for Advanced Modelling and Geospatial Information Systems (CAMGIS)
Faculty of Engineering & IT
University of Technology Sydney

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Personal Information &
Academic Qualification

BISWAJEET PRADHAN

2. PERSONAL INFORMATION

Date of Birth	:	20 May 1975
Place of Birth	:	Panchugaon
Gender	:	Male
Passport No	:	Z2209418

3. CURRENT POSITION

Distingished Professor
Director, The Centre for Advanced Modelling and Geospatial Information Systems (CAMGIS)
Faculty of Engineering and Information Technology
University of Technology Sydney
CB11.06.106, Building 11, 81 Broadway, Ultimo NSW 2007 (PO Box 123).
E-mail : biswajeet.pradhan@uts.edu.au ; biswajeet24@gmail.com
Homepage : : https://www.researchgate.net/profile/Biswajeet_Pradhan
: http://orcid.org/0000-0001-9863-2054
: http://scholar.google.com/citations?user=kuKwsCwAAAAJ&hl=en
: https://www.scopus.com/authid/detail.uri?authorId=12753037900

Field Expertise: Natural Hazards, Remote Sensing & GIS, Environmental & Natural Resources Modelling

Professional Affiliations

1. Exco. Member, IEEE Geoscience & Remote Sensing, Malaysia Chapter
2. Past Chair (2017), IEEE Geoscience & Remote Sensing, Malaysia Chapter
3. Working committee member for National Geopatial Data Committee, Malaysia
4. Senior Member of IEEE Geoscience and Remote Sensing Society, USA.
5. Member: Committee of Space Research (COSPAR), since 2004
6. Member of UN-SPIDER working group on "Disaster Management", since 2008
7. Committee member of ISPRS - Commission III - Photogrammetric Computer Vision and Image Analysis; Inter-commission Working Group III/VII - Pattern Recognition for Remote Sensing, 2008-2012
8. Member of American Geosciences Union (AGU), since 2009
9. Life member of ISRS (Indian Society of Remote Sensing), since 2003
10. Affiliated to European Mountain Forum
11. Member of European Geosciences Union (EGU), since 2004
12. Life member of Disaster Advances Journal since, 2008
13. Full member of Geological Society of Malaysia, since 2003
14. Full member of Malaysian Remote Sensing Society, since 2003
15. Full member Geological Society of India, since 2003

16. Member of International Committee on Earth Observation Satellites Disasters Management (CEOSDIS), Brussels, Belgium, since 2000

4. ACADEMIC QUALIFICATION

School

Name of School	Certificate Obtained Year Obtained	Year Obtained
Nachuni Godavarish High School, Odisha, India	Higher Secondary	1990

Institution of Higher Learning

Name of Institution	Qualification Obtained	Area of Specialisation	Year
Technische Universität Dresden (TUD), Dresden, Germany	Habilitation	Remote Sensing	2011
Universiti Putra Malaysia, UPM, Serdang, Malaysia	PhD (GIS & Geomatics Engineering)	GIS & Geomatics Engineering	2006
Indian Institute of Technology (IIT), Kanpur, India and Dresden University of Technology, Germany	MTech. (Civil Engineering)	Civil Engineering	2000
Indian Institute of Technology (IIT), Bombay, India	MSc.	Remote Sensing/ Applied Geology	1998
Berhampur University, Odisha, India	BSc.	Honours with Distinction	1995

Employment & Working Experience

5. EMPLOYMENT/WORKING EXPERIENCE

Post Held	Employer	Duration
Distinguished Professor and Director	Faculty of Engineering & IT, University of Technology Sydney, Australia	September 2017 - till now
Full Professor	Faculty of Engineering, Universiti Putra Malaysia (UPM)	2016 - 2017
Associate Professor	Faculty of Engineering, Universiti Putra Malaysia (UPM)	2010 to June 2016
Visiting Professor, Alexander von Humboldt Fellow	Dresden University of Technology, Germany	2008-2010
Postdoctoral (Concurrent position),	Institute of Advanced Technology, Universiti Putra Malaysia (UPM)	2007- 2009
Senior Manager	Cilix Corporation, Technology Park Malaysia, Kuala Lumpur, Malaysia	2005-2007
Senior Lecturer	Asian Institute of Medicine, Science and Technology University, Malaysia	2002-2004
Research Scientist	Dresden University of Technology, Dresden, Germany	1999-2002
Research Assistant	Indian Institute of Technology (IIT), Bombay	1996-1998

6. TEACHING EXPERIENCE

Had taught subjects related to Civil Engineering since 1999. I've taught various Civil Engineering subjects to undergraduate (UG) and postgraduate (PG) students in subjects related to:

i. Civil Engineering Drawing (**UG**)
ii. Remote Sensing for Civil Engineers (**UG**)
iii. Geomatics & Geology Camp (**UG**)
iv. Image Processing and Computer Vision, (**UG**)
v. Engineering Geology (**UG**)
vi. Radar Image Processing (**PG**)
vii. Remote Sensing & GIS Applications (**PG**)
viii. GIS for Engineers (**PG**)
ix. Hazard, Risks and Ethics (**PG**)

**** Teaching evaluation is well above 80% (>4.5/5) for all subjects.***

Supervision of Students

7. SUPERVISION OF STUDENTS

- **46 PhD students - 21 completed (15 as main supervisor); 23 on-going**
- **10 MSc students (research) - 10 completed (9 as main supervisor)**
- **30 MSc (course)-30 completed**

i. Ph.D

1. Keivan Kabiri (GS26504), Benthic habitat mapping and coral bleaching detection using Quickbird imagery and kd algorithm, 2010. (***main supervisor-completed PhD 2013***)
2. Abubakr Albashir Abdulhadi (GS30850), Analysis and modelling of urban sprawl process and its spatiotemporal patterns in Tripoli metropolitan area, 2011. (***main supervisor-completed PhD 2014***)
3. Omar Faisal Salih Althwaynee (GS28678), Spatial prediction of landslide susceptible areas using integrated statistical and data mining approaches, 2011. (***main supervisor-completed PhD 2014***)
4. Aminreza Neshat (GS26290), Assessment of groundwater vulnerability with different methods for achieving risk map in Kerman, 2011. (***main supervisor - completed PhD 2014***)
5. Yasser Ghobadi (GS26244), Assessment of spatial relationship between land surface temperature and landuse/cover retrieval from multi-temporal remote sensing data in South Karkheh Sub-basin, 2011. (***main supervisor- completed 2015***)
6. Saleh Abdullahi (GS33879), A Novel GIS Based Compact City Modeling Using Integrated Statistical approaches, Remote sensing and Cellular Automata, 2012 (***main supervisor-completed 2016***)
7. Mahyat Shafapour Tehrany (GS36630), Development of Novel Ensemble Approach for Flood Susceptibility Mapping in GIS, 2013. (***main supervisor- completed 2015***)
8. Mustafa Neamah Jebur (GS36631), Use of multi-microwave remote sensing data in landslides detection and modelling in tropics, 2013. (***main supervisor- completed 2015***)
9. Ernieza Suhana binti Mokhtar (GS41810), Flood modeling on impervious surface material, 2014. (***main supervisor- completed 2018***)
10. Mustafa Ridha Mezaal (GS45396), Development of Optimized Techniques for Landslide Detection and its Characteristics from Airborne Laser Scanning Data and Orthophotos, 2018. (***main supervisor- completed 2018***)

11. Mohammad Ghorbannejad (GS 41871), Development of an alternative technique for traffic congestion management using GIS, 2014. (***main supervisor-on-going***)

12. Mohammed Oludare Idrees (GS41930), Spatial analysis of zoogeomorphological speleogenesis of the birds and bats nest/root sites at Gomantong Cave in Malaysia, 2014. (***main supervisor- completed 2017***)

13. Hossein Mojaddadi Rizeei (GS41175), Development of spatial based flood hazard and risk modeling tools, 2015. (***main supervisor-completed 2018***)

14. Maher Ibrahim Sameen (GS44022), Delineation and geometric modelling of urban roads for traffic accident analysis and prediction. (***main supervisor-completed 2018***)

15. Usman Salihu Lay (GS45081), Debris flow modelling in tropics using laser scanning techniques. (**Co-supervisor-on-going**)

16. Haryani binti Azahari (GS45422). Natural disaster hazard and risk assessment using GIS and remote sensing data input in industrial area. (**Co-supervisor-on-going**)

17. Norisam bin Abd Rahman (GS46200), Synergistic use of airborne laser scanning data, high resolution satellite image and statistical based spatial models for identifying potential slope failure areas within a catchment basin. (***Co-supervisor-ongoing***)

18. Ratiranjan Jena (GS48175), Seismic Hazard and Risk Assessment of Peninuslar Malaysia. (**main supervisor-on-going**)

19. Hamidreza Maskani Jifroudi (GS48516). (**Co-supervisor-on-going**)

20. Ali Mutar Fanos (GS48800), Rockfall vulnerability and risk assessment in tropical areas. (**main supervisor-thesis sumitted**).

21. Ahmed Jamilu Bala (GS46022). (**main supervisor-on-going**)

22. Ali Amani (GS21507), Earthquake monitoring through spatial librated detectable gragey, 2011 ***(Co-supervisor-on-going)***

23. Ajibola Ismaila Isola (GS34981), Unmanned aerial vehicle for topographic mapping, 2012. ***(Co-supervisor-thesis submitted)***

24. Hayder Abd Al-razzaq Abd (GS36580), Developing geometric correction and relative radiometric normalization models for near equatorial an earth observation sensor images, 2013 ***(Co-supervisor- completed 2015)***

25. Siti Nur Aliaa Roslan (GS22489) Building climate modeling by using GIS for mapping developing area, 2014 ***(Co-supervisor- completed 2017)***

26. Norbazlan bin Mohd. Yusof (GS33045), Landslide analysis along the expressways using remote sensing and geographic information system, 2012 ***(Co-supervisor-completed 2016)***

27. Nur Suhaili binti Mansor, (GS35941), The influence of land use pattern and social mobility on the social well-being: the application of GIS on the urban ecosystems in Sungai Petani, Kedah, 2013, ***(Co-supervisor-completed 2018)***

28. Hussein Sabah Jaber, (GS39885). Development of SEBAL Model for Evapotranspiration Mapping in Iraq Using Remote Sensing and GIS, ***(Co-supervisor-completed 2017)***

29. Mohsen Dadras (GS29646), A new geospatial approach in the modeling of urban land development pattern, 2012, ***(Co-supervisor-completed in 2015)***

30. Hasanlarijany Hamed (GS25606), Geographical digital dimension conceptualization under fuzzy principle via geosciences engineering, 2012, ***(Co-supervisor-on-going)***

31. Kamlesh Golhani (GS39941), Evaluation of neural network classifiers with vegetation indices for early detection of cccvd in oil palm, 2014, ***(Co-supervisor-completed in 2018)***

32. Maryam Khosrokhanikangavar (GS39762), Detection of Ganoderma Basal Stem Rot (BSR) Infection in Oil Palm Plantation Using Multispectral Image Taken by UAV, ***(Co-supervisor-on-going)***

33. Jwan Myaser (GS40797), Desertification assessment in Iraq using remote sensing and GIS approaches. ***(Co-supervisor-on-going)***

34. Jabir Haruna Abdulkareem (GS43279), Modelling the effect of land use/cover changes on long-term water balance and non point source (nps) pollution in Kelantan river basin, ***(Co-supervisor-completed in 2018)***

35. Nahhas Faten Hamed A (GS44353), Roof detection mapping using high resolution hyperspectral images ***(Co-supervisor-completed in 2018)***

36. Masayu binti Norma (GS44433), Assessing the environmental impact of roofing materials on harvested rainwater quality using remote sensing approaches. ***(Co-supervisor-thesis submitted)***

37. Khalid Guma Biro, Development of a multi-sensor based remote sensing method for the mapping of the impact of tillage on soil characteristics in Gadarif region, Sudan, 2011, (***Co-supervisor- completed in 2011***)

38. Samy Elbialy, Application of Space-borne SAR data for the extraction of soil moisture and its use in hydrological modelling in GIS: a case study of Gottleuba Catchment, Saxony, Germany, 2011, (***Co-supervisor- completed in 2011***)

39. Ali Mahmoud, Field-based landcover classification using TerraSAR-X texture analysis, 2011, (***Co-supervisor- completed in 2011***)

40. Ruzinoor bin Che Mat (GS20587), Four tier framework for online applications of 3D GIS visualization, 2009. (***co- supervisor - completed PhD 2013***)

41. Ahmed Aldulaimi (13050998), Traffic Noise Emission Modelling at Selected Stretches is to Develop a Methodology for Estimating and Evaluating Noise Emission Level Emitted from the Traffic by using GIS. 2018. (**main supervisor-on-going**)

42. Abdollahi, Abolfazl (13349129), Automated verification and update of vector maps using high resolution remote sensing images. 2018, (**main supervisor-on-going**)

43. Sahar Soleimanimatin (13278914), 2018. (**main supervisor-on-going**)

44. Sumudu Senanayake (13186580), Identification of Soil Erosion Hazard and Crop Diversity Changes due to Effect of ClimateVvariation in Different Farming Systems of Central Highland in Sri Lanka by using Geo-Informatics Techniques. 2019. (**main supervisor-on-going**)

45. Maryam Adel Saharkhiz (13191972), Design and develop a prototype mobile GIS application for smart travelling, 2018. (**main supervisor-on-going**)

46. Husam Abdulrasool Hammadeh Alnajjar (13349384), Ompact of climate change on landslide susceptibility in australia using deep learning technique, 2019 ***(Main-supervisor-on-going)***

ii. MSc

1. Almaz Butaev (GS27934), Symmetrical non-separable wavelet transforms in remote sensing image fusion, 2009. (***main supervisor-completed MSc with Thesis 2011*)**

2. Ulrich Mann Investigations on a DEM-based classification of landslides in tropical forested areas Graduated, 2008. (***main supervisor – completed MSc with Thesis 2010***)

3. Ulrike Hagemann, Identification of structures in TerraSAR-X data through texture analysis, 2008. (***main supervisor-completed MSc with Thesis 2010***)

4. Haleh Nampak (GS31564), Spatial data analysis and data integration for groundwater potential mapping, langat basin, Malaysia, 2011. (***main supervisor - completed MSc with Thesis 2014***)

5. Suhaimizi Bin Yusoff (GS34085), Mineral potential mapping using GIS in Kelantan, 2012, (***main supervisor - completed MSc with Thesis 2015***)

6. Waleed Mohammed Abdulwahid (gs40528). Landslide vulnerability and risk modeling using airborne laser scanning data. ***(main supervisor - completed MSc with Thesis 2016)***

7. Ali Mutar Fanos (gs40512). Rock fall hazard assessment using terrestrial laser scanning data. ***(main supervisor - completed MSc with Thesis 2016)***

8. Ahmed Abdulkareem Ahmed (GS46224). Development of traffic noise emission modelling at selected stretches for estimating and evaluating noise emission level by using GIS, ***(main supervisor - completed MSc with Thesis 2018)***

9. Omer Saud Azeez (GS46737). Vehicle emission modeling and assessment emitted from the traffic at selected stretches of NKVE expressways using integrated geospatial modeling technologies. ***(main supervisor - ongoing)***

10. Veena Sashikant (GS28271) Estimation of above-ground biomass of oil palm trees using phased array l-band synthetic aperture radar data, 2014, (***co-supervisor - completed MSc with Thesis 2014***)

11. Sajad Siyahghalati (GS31029), Detection of earthquake induced landslides from IRS satellite images using advanced image processing techniques, 2012. (***main supervisor - completed MSc with Mini Project 2013***)

12. Vahideh Saeidi (GS32784), Fusion of Airborne LiDAR with Multispectral SPOT 5 Image for Enhancement of Feature Extraction Using Dempster-Shafer Theory, 2012. (***main supervisor - completed MSc with Mini Project 2013***)

13. Yusuf Ahmed Yusuf (GS33005), Spatio-temporal assessment of Urban Heat Island Effect in Kuala Lumpur Metropolitan City between 1997 – 2013. (***main supervisor - completed MSc with Mini Project 2014***)

14. Muhamad Hasan Abokharima (GS33627), Land subsidence susceptibility mapping using probabilistic based frequency ratio model at Kinta valley, Perak. (***main supervisor - completed MSc with Mini Project 2014***)

15. Maryam Khosrokhani (GS28761), Spatial assessment of soil erosion and its correlation with landslide events: a case study at Kuala Lumpur, Malaysia. (***main supervisor - completed MSc with Mini Project 2012***)

16. Mahyat Shafapour Tehrany (GS31470), The relationships between land surface temperature and land cover changes from 2003-2010; Selangor, Malaysia. (***main supervisor - completed MSc with Mini Project 2013***)

17. Abdalhaleem Abdalla Hassaballa (GS31540), Extraction of soil moisture content from Radar images and estimating its effect on landslides. (***main supervisor - completed MSc with Mini Project 2013***)

18. Younes Seddighi (GS33262), Comparing different image classification techniques for urban areas extraction in tropical region using ALOS PALSAR data. (***main supervisor - completed MSc with Mini Project 2014***)

19. Suzalina Binti Kamaruddin (GS31504), Thermal anomaly detection preceding moderate to weak earthquake; a case study of Kunak, Sabah (Malaysia) earthquake; May 28th, 2012. (***main supervisor - completed MSc with Mini Project 2014***)

20. Suhaila Binti Suleiman (GS33857), Surface and Subsurface Lineament Analysis in Oil and Gas Exploration. (***main supervisor - completed MSc with Mini Project 2014***)

21. Kelvin Tang Kang Wee (GS34344), Satellite-derived bathymetric mapping: a reconnaissance too for space borne hydrography. (***main supervisor - completed MSc with Mini Project 2014***)

22. Ikhwan Bin Mohamed, Prelimnary study on early detection of Ganoderma disease in palm oil tress using spaceborne Radarsat 1 data. (***main supervisor - completed MSc with Mini Project 2014***)

23. Amir Nouri Manafizad, Estimation of the ground response parameters for the Malaysian Peninsula using the deterministic and probabilistic approaches. (***main supervisor - completed MSc with Mini Project 2015***)

24. Amruta Chaudhary, Soil erosion assessment and its correlation with landslide events using remote sensing data and GIS: a case study at Penang Island, Malaysia. 2010, (***main supervisor - completed MSc in 2010***)

25. Mohd Khuizham bin Abd Halim, Soil erosion modeling using multi-sensor satellite images. (***main supervisor- completed 2016*)**

26. Nadjmeh Mahdianzadeh, (GS31987), Application of WV2 satellite imagery in air flow simulation and thermal analysis over Universiti Putra Malaysia campus, 2013, ***(Co-supervisor)***

27. Kayvan Ghasemi, Mapping Hydrothermal Alteration Zones by Remote Sensing. (***main supervisor- Completed 2015*)**

28. Kouame Yao, Gold mineral alteration zone identification using ASTER imagery. ***(main supervisor- Completed 2015)***

29. Gopinaath Bakthinathan, Management of Occupational health and Safety in Malaysian Aircraft Maintenance Facilities (Accident Prevention and Reduction of Accidents) – a case study. ***(main supervisor -Completed 2015-Msc ERP)***

30. Palmarum Tambunan, Recommended Incident Management Plan and Emergency Response Plan for LNG Process Plant in Indonesia. ***(main supervisor-Completed 2015-Msc ERP)***

31. Abbas Mohammed Noori Saber (GS40610). Land suitability for Dam site selection by using GIS approach and remote sensing. ***(main supervisor - Completed 2016)***

32. Qayssar Mahmood Ajaj (GS40611) Identifying the desertification extent in Iraq and impact of sand storm as a result of desertification on Kirkuk city. ***(main supervisor - Completed 2016)***

33. Sajjad Azimi. Accurate extraction of land cover and land use using very high resolution areal orthophoto. ***(main supervisor - Completed 2016)***

34. Ali Makky . Geomorphology Characterizing Using LDiAR Data and High Resolution Image (Filtering Algorithm to Characterize the Geomorphological Features of the Land). ***(main supervisor - Completed 2016).***

35. Abdi Nur Abdulle. Coastline Detection And Monitoring Using Single Temporal Radarsat Images In Tropics. (***main supervisor- Completed 2017***).

36. Suzana Abu Bakar. Identification of potential debris flow location in Tropical Rainforest using Airborne-Laser Scanning. (***main supervisor- Completed 2017***).

37. Abdul Munir Abdul Munaim, The Study of Awareness about Drought Preparedness Among Timah Tasoh Residents. (**MSc-ERP-** ***main supervisor- Completed 2017***)

38. Tijani Shehu Ibrahim, Analysis of Mangrove Forest Changes and Modelling its Effects on the Values of Coastal Ecosystem Image. (***main supervisor- Completed 2017***)

39. Ahmed Ali Alazhari Moneir, Sand Dune Susceptibility Mapping Using Remote Sensing and GIS: A Case Study of Sabha, Libya. (***main supervisor- Completed 2017***)

40. Muhammad Syahir Muhammas Salim Sundar, Decision Support System to Improve Disaster Risk Reduce In Malaysia. (**MSc-ERP-** ***main supervisor- Completed 2017***)

iii. Bachelor

1. Mohd Helmi bin Mod Nor, Extraction of Transportation Network From Multi-sensors satellite Images, 2013/2014. ***(Completed)***

2. Fatin Zulhaifa Bt Ab Aziz, Water Catchment Mapping of Batu Caves Areas and Surrounding (Malaysia) Using Multi-temporal Landsat Images, 2013/2014. ***(Completed)***

3. Muhammad Hafizuddin bin Alias, An accurate geometric information extraction on Highways using Terrestrial Laser Scanning (TLS) technology, 2014/2015. ***(Completed)***

4. Mohammad Najiha Fairus bin Hj Abdul Kader, Assessment of building structural damage using Terrestrial Laser Scanning (TLS) technology, 2014/2015. ***(Completed)***

5. Muhamad Yusri B Madi, Investigation on peak ground acceleration maps for Peninsular Malaysia with response to major recent earthquakes, 2014/ 2015. ***(Completed)***

6. Izzahtul Afiqah Kamaruddin, Drainage analysis and engineering design of erosion control using very high resolution Airborne laser scanning data, 2015/2016. ***(Completed)***

7. Peero Uzma Bibi Amirah, Building extraction and 3D modeling for engineering site redevelopment project planning using laser scanning data, 2015/2016. ***(Completed)***

8. Raphael Kenneth Lo Ka Kiong, Evaluation of interpolation techniques and multi-criteria decision making techniques for urban noise mapping in GIS, 2016/2017 ***(Completed)***.

9. Fawwaz Iqbal Abdul Razak, Identification and extraction of road geometry from laser scanning data, 2016/2017 ***(Completed)***.

iv. International PhD Program

1. Bui Tien Dieu, Department of Mathematical Sciences and Technology, Norwegian University of Life Sciences, Alas, Norway, Jan 2013. ***(co-supervisor-completed in 2013)***

2. Hamid Reza Pourghasemi, Department of Watershed Management Engineering, ollege of Natural Resources and Marine Sciences, Tarbiat Modares University, Mazandaran, Iran, 2010-2014. ***(co-supervisor-completed in 2014)***

v. Bachelor Final Year Project, Industrial Training report, Practicum or Internship fly

1. Chan Way Hong (156567), 2013. (***Industrial training Report)***

2. Atiqah Nazira Abd Rashid (160311), 2013. (***Industrial training Report***)

3. Foo Jiunn Shyan (161516), 2014. (***Industrial training Report***)

4. Chia Chen Yang (162340), Latihan Industri, 2014. (***Industrial training Report***)

5. Natasha Danny, Placement of UiTM, Perlis student for internship in UPM, 2015. (Internship students of UiTM Perlis)

6. Siti Nur Alia binti Abu Zaki, Placement of UiTM, Perlis student for internship in UPM, 2015. (Internship students of UiTM Perlis)

7. Muhamad Farid Bin Ramli, Placement of UiTM, Perlis student for internship in UPM, 2015. (Internship students of UiTM Perlis)

8. Muhammad Irfan Bin Jaafar, Placement of UiTM, Perlis student for internship in UPM, 2015. (Internship students of UiTM Perlis)

9. Muhammad Sharul Aikal bin Baharim, Placement of UiTM, Perlis student for internship in UPM, 2016. (Internship students of UiTM Perlis)

10. Ahmad Muqri Bin Amirudean, Placement of UiTM, Perlis student for internship in UPM, 2016. (Internship students of UiTM Perlis)

11. Nurwajihah Binti Laili, Latihan Industri, 2016. (***Industrial training Report***)

Research Projects & Funding

8. RESEARCH PROJECTS & FUNDINGS

RESEARCH PROJECTS:

- **Total 27 Projects: 22 Projects as Leader and 5 as member**

No	Project Title	Amount	Year	Sponsor/ Source of Fund
1.	Development of an optimized spatial model for orthorectification of high resolution satellite images for urban applications	AUD 19,000.00	2018	**BlueSky grant**
2.	The Catchment Study For Rainfall Induced Debris Flow At Selected Locations Along North-South Expressway Using High Resolution Satellite Images And Statistical Based Spatial Models	MYR 805,600.00	2017-2018	**Industrial Grant** (PLUS Berhad)
3.	Development of LMToolbox (Landslide Modelling Toolbox) for Landslide Modelling and Risk Assessments Using ArcGIS and Python Environments	MYR 475,940.00	2017-2018	**Industrial Grant** (PLUS Berhad)
4.	Development of an optimized technique for orthorectification of high resolution satellite images in tropics **(Project Leader)**	MYR 20,000.00	2016-2017	Putra Grant (GP-IPS)
5.	Vehicle Emission Modeling and Assessment Emitted From the Traffic at Selected Stretches of NKVE Expressways Using Integrated Geospatial Modelling Technologies **(Project Leader)**	MYR 247,500.00	2016-2017	**Industrial Grant** (PLUS Berhad)
6.	Development of traffic noise emission modelling at selected stretches for estimating and evaluating noise emission level by using GIS **(Project Leader)**	MYR 249,100.00	2016-2017	**Industrial Grant** (PLUS Berhad)
7.	A comprehensive landslide detection, susceptibility, vulnerability and risk assessment along selected stretches of plus expressways using multi-sensor remote sensing data and advanced geospatial models **(Project Leader)**	MYR 440,000.00	2015-2016	**Industrial Grant** (PLUS Berhad)
8.	Development of an Automated Hybrid Data Fusion Technique for the Integration of Full-Waveform LiDAR Data with High Spatial Resolution Imaging in an Urban Environment (***Project Member***)	MYR 15,000.00	Aug 2016-Aug 2018	Putra Grant (GP-IPS)
9.	Development of Coherence Flood Detection and Novel Ensemble Flood Modelling	MYR 128,200.00	2015-2017	Putra Grant (University

	Approaches Using RADAR Satellite Images in Tropical Area (***Project Leader***)			Research Grant)
10.	Development of coherence modeling algorithm for rapid flood inundation mapping using multi-sensor radar satellite images for tropical Malaysia **(*Project Leader*)**	MYR 87,700.00	2015 (9 months)	FRGS-Flood Grant, Ministry of Education, Malaysia
11.	Forensic analysis on the highway geometric and profiling using high resolution Lidar data **(*Project Leader*)**	MYR 150,520.00	2015-1016 (12 months)	**Industrial Grant** (PLUS Berhad)
12.	Mass movement detection along PLUS expressways using airborne LiDAR, high resolution optical remote sensing data and synthetic aperture radar images **(*Project Leader*)**	MYR 160,000.00	2015-2016 (12 months)	**Industrial Grant** (PLUS Berhad)
13.	Flood hazard and risk analysis for new klang valley expressway (nkve) in sungai damansara water catchment using multi-sensor remote sensing, geographic information system and machine learning based models (***Project Leader***)	MYR 248,000.00	2014-2016	Industrial Grant (PLUS Berhad)
14.	Terrigenous mass movement analysis of selected areas along the north-south expressways using remote sensing, geographic information system, probabilistic and statistical based models, PLUS Berhad (***Project Leader***)	MYR 153,000.00	2013-2015	Industrial Grant (PLUS Berhad)
15.	Spatial analysis of zoogeomorphological speleogenesis of the birds and bats nest/root sites at Gomantong Cave in Malaysia (***Project Leader***)	MYR 95,700.00	2014-2016	FRGS (Ministry of Education)
16. .	Study On Spectral Bands Synthesis for Mineral Identification and Prediction in Malaysia Using Geospatial Modeling Techniques (***Project Leader***)	MYR 76,000.00	2013-2015	ERGS (Ministry of Education)
17.	Seismic Hazard Assessment of Soil Deposits from Peninsular Malaysia: Fundamentals of Earthquake Resistant Design (***Project Member***)	MYR 98,000.00	2013-2015	FRGS (Ministry of Education)
18.	Modelling near equatorial remote imaging: models and methods for image processing, (***Project Member***)	MYR 301,,480.00	2014-2016	MOSTI (Ministry of Science & Technology)
19.	Multi-sensor Tracking and Fusion for Efficient Maritime Surveillance Utilizing Unmanned Aerial Vehicles (UAVs) Flying in Swams, (***Project Member***)	MYR 107,400.00	2013-2015	Putra Grant (University Research Grant)
20.	Development of Spatial Models,	MYR	2011-	RUGS

	Mathematical Algorithms and Tools for Monitoring of Benthic Habitats in South China Sea Region, Malaysia (***Project Leader-completed***)	160,000.00	2013	(University Research Grant)
21.	On summability of eigenfunction expansions of differential and pseudo-differential operators (***Project Leader-completed***)	MYR 55,000.00	2011-2013	RUGS (University Research Grant)
22.	Development of an ensemble based modeling algorithm for landslide prediction and forecasting in Malaysia (***Project Leader-completed***)	MYR 12,000.00	2012-2013	RUGS (University Research Grant)
23.	Development of a data driven evidential belief function model to predict potential groundwater zonation in Malaysia (***Project Leader-completed***)	MYR 11,500.00	2012-2013	RUGS (University Research Grant)
24.	Development of a spatial decision support system tools using remote sensing data and GIS techniques for early warning (hazard and risk analysis), detection and monitoring of landslides in Malaysia, AvH Germany (***Project Leader-completed***)	MYR 126,000.00	2008-2010	AvH, Germany
25.	National Disaster Data and Information Management System (NADDI), MOSTI, (***Geospatial Division Manager-completed***)	MYR 22 Million	2004-2009	MOSTI (Ministry of Science & Technology)
26.	Malaysian Airborne Remote Sensing System (MARS) project , MOSTI, (***Geospatial Division Manager-completed***)	MYR 55 Million	2004-2009	MOSTI (Ministry of Science & Technology)
27.	Development of Operational Remote Sensing Tools for Mapping, Monitoring and Mitigation of Mass movements in Malaysia, (***Project Member-completed***)	MYR 80,000.00	2007-2009	FRGS (Ministry of Education)

FUNDINGS:

1. Penyelidikan Bahaya, Risiko Project with Geoprobe Sdn. Bhd., December 2015. (***consultant***)

2. Penyelidikan Lereng Bukit (FASA-1) Project with Contract No: BSB/DTS/IV.03/2012 with Jabatan Kerja Raya, Brunei, January 2013. (***consultant***)

3. Landslide detection using laser scanning LiDAR data, Accelteam Sdn. Bhd., Malaysia, July 2013. (***consultant***)

4. Analysis of Rainfall Threshold Data for Landslide Failures, Technotest Sdn. Bhd., Brunei, February 2014. (***consultant***)

5. Landslide Susceptibility Analysis, Technotest Sdn. Bhd., Brunei, April. 2014. (***consultant***)

6. Landslide Hazard and Risk Modelling, Technotest Sdn. Bhd., Brunei, June. 2014. (***consultant***)

7. Environmental Impact Assessment for the Paddy field areas using GIS, Technotest Sdn. Bhd., Brunei, December. 2014. (***consultant***)

Research Products & Awards

9. RESEARCH PRODUCTS & AWARDS

A. Patents and Copyrights

1. Copyright Act 1987, Above Groundmass Estimator, 2013.

2. Copyright Act 1987, A Method of Visualising 3D Terrain, 2011.

3. Copyright Act 1987, 3D Data Compression Software, 2006.

4. Patent Filed: Goniometer for near equatorial satellite system images, filed on November 2014.

B. Awards

1. Highly Cited Researcher 2018 by Clarivate Analytics.

2. Springer Editorial Excellence Award for outstanding contribution to Arabian Journal of Geosciences (2018)

3. 2018 - World Class Professor by the Ministry of Research, Technology and Higher Education, Indonesia

4. Highly Cited Researcher 2017 by Thomson Reutors.

5. Research Star Award by the Malaysian Ministry of Education (2017)

6. Honanary Appoinment 2016-2020; Visiting Professor by Sejong University, Seoul, South Korea

7. Highly Cited Researcher 2016 by Thomson Reutors.

8. Humboldt Ambassador Scientist Award of the Alexander von Humboldt Foundation (Germany), 2015 - 2021

9. Gold Medal for the invention of “A Novel Model for Detection of Road Geometry from Laser Scanning Data”, 2016. ***(Gold medal)***

10. Special Award, University Putra Malaysia, 2016

11. International Committee on Space Research (COSPAR) Travel Grant Award by 41st COSPAR Scientific Assembly and Associated Events, Instanbul, 2016.

12. Excellent Teaching Award, University Putra Malaysia, 2016

13. Publication Award, University Putra Malaysia, 2016

14. Excellent Services Award, University Putra Malaysia, 2016

15. Industry and Community Network High Impact Award, University Putra Malaysia, 2016

16. Excellent Services Certificate, University Putra Malaysia, 2015.

17. Excellent Services Certificate, University Putra Malaysia, 2014.

18. Medal for the invention of “Above Ground Biomass Estimation of Oil Palm Trees by Universiti Putra Malaysia, 2013. ***(Gold medal)***

19. Medal for the invention of “Above Ground Biomass Estimation of Oil Palm Trees using PALSAR”, MIExpo-2013. ***(Gold medal)***

20. Excellent Researcher Award, Faculty of Engineering, University Putra Malaysia, 2013

21. Excellent Services Certificate, University Putra Malaysia, 2013.

22. Excellent Teaching Award, University Putra Malaysia, 2013

23. Excellent Teaching Award, University Putra Malaysia, 2012

24. Medal for the invention of by RMC, Universiti Putra Malaysia, 2013

25. Research and Innovation Center, University Putra Malaysia. 2012.

26. Best Paper Award (Aerospace Applications) at the 4th Conference on Recent Advances in Aerospace Technology (AEROTECH IV 2012), 2012.

27. Medal by Research and Innovation Center for the invention “A novel data driven evidential belief function model for landslide prediction in Malaysia”, University Putra Malaysia. 2012.

28. International Committee on Space Research (COSPAR) Travel Grant Award by 39th COSPAR Scientific Assembly and Associated Events, Mysore, India, 2012. Travel Grant Award

29. National Space Agency (Malaysia) Publication Award 2011.

30. Medal for the invention of "Integrated 3D Terrain Visualizer" by Universiti Putra Malaysia, 2011. ***(Gold medal)***

31. National Space Agency (Malaysia) Publication Award 2011.

32. National Medal for the invention of "Integrated 3D Terrain Visualizer" by PECIPTA 2011, Ministry of Higher Education, Malaysia, Kuala Lumpur Convention Centre, 13-15 September 2011.

33. International Committee on Space Research (COSPAR) Travel Grant Award by 38th COSPAR Scientific Assembly and Associated Events, Bremen, Germany, 2010.

34. Top 100 Scientists Award®, The International Biographical Centre, Cambridge, UK, 2010-2012

35. Alexander von Humboldt (AvH) Fellowship Award, Germany, 2008.

36. Featured in Who's Who in the World®, published in November 2008.

37. Association of Geographic Information Laboratories Europe (AGILE) Travel Grant Award 2009

38. Keith Runcorn Travel Award for Non-Europeans (KRTA): EGU2009 grant award

39. International Committee on Space Research (COSPAR) Travel Grant Award to attend 36th COSPAR Scientific Assembly and Associated Events, Beijing, China, 2006. International Committee on Space Research (COSPAR) grant award to attend 35th COSPAR Scientific Assembly and Associated Events, Paris, France, 2004.

40. Deutscher Akademischer Austausch Dienst (DAAD) Fellowship Award

41. Editor's recognition for highly cited article in "Computers & Geosciences" for the paper "A comparative study on the predictive ability of the decision tree, support vector machine and neuro-fuzzy models in landslide susceptibility mapping using GIS". Volume 51, Issue, February 2013, Pages 350-365.

42. Editor's recognition for highly cited article in "Computers & Geosciences" for the paper "Application of a neuro-fuzzy model to landslide-susceptibility mapping for shallow landslides in a tropical hilly area. Volume 37, Issue 9, September 2011, Pages 1264-1276.

43. Editor's recognition for highly cited article in "Computers & Geosciences" for the paper "Application of an evidential belief function model in landslide susceptibility mapping, Volume 44, Issue , July 2012, Pages 120-135.

44. Editor's recognition for highly cited article in "Computers & Geosciences" for the paper "Landslide susceptibility mapping at Hoa Binh province (Vietnam) using an adaptive neuro-fuzzy inference system and GIS, Volume 45, Issue , August 2012, Pages 199-211.

45. Editor's recognition for highly cited article in the journal of "Advances in Space Research" for the paper "Remote sensing and GIS-based landslide hazard analysis and cross-validation using multivariate logistic regression model on three test areas in Malaysia", 2012.

46. Editor's recognition for highly cited article in the journal of "Environmental Modelling & Software" for the paper "Landslide susceptibility assessment and factor effect analysis: backpropagation artificial neural networks and their comparison with frequency ratio and bivariate logistic regression modeling", 2014.

47. Editor's recognition for highly cited article in the journal of Computers, Environment and Urban Systems for the paper "A GIS-based back-propagation neural network model and its cross application and validation for landslide susceptibility analyses", 2010-2015.

48. Editor's recognition for highly cited article in "Computers & Geosciences" for the paper "An easy-to-use MATLAB program (MamLand) for the assessment of landslide susceptibility using a Mamdani fuzzy algorithm Volume 38, Issue 1, January 2012, Pages 23-34. A. Akgun | E. A. Sezer | H. A. Nefeslioglu | C. Gokceoglu | B. Pradhan.

49. Best Paper Award (Aerospace Applications) at the 4th Conference on Recent Advances in Aerospace Technology (AEROTECH IV 2012), 2012.

50. Gold Medal for the invention of "Integrated 3D terrain visualizer" by The Belgian and International Trade Fair for Technological Innovation. Brussels. 20 November 2010.

51. Gold Medal for the invention of "A New Robust Data Compressor for GIS Spatial Data Compression" by Ministry of Science, Technology and Innovation Malaysia, 2006 (***Gold***)

52. International Trade Fair Medal Award: 2006, Nuremberg, Germany.

53. Medal by Research and Innovation Center for the invention of "Operational Remote Sensing Tools for Mapping, Monitoring and Mitigation of Mass movements in Malaysia", University Putra Malaysia, 2007.

54. Medal by Research and Innovation Center, University Putra Malaysia.2006.

55. Gold Medal for the invention of "A New Robust Data Compressor for GIS Spatial Data Compression" by Ministry of Science, Technology and Innovation Malaysia, 2006 (***Gold***)

56. Medal by Research and Innovation Center, University Putra Malaysia, 2007.

57. Medal by Research and Innovation Center, University Putra Malaysia.2006.

Publications

10. PUBLICATIONS

- **Total 475 ISI Journals, Scopus: H- Index = 71; Citations = 15050; GoogleScholar: H-index = 80; Citations = 20796**
- **10 Books**
- **24 Chapters in Books**
- **232 Conference Proceedings, seminar, workshop**

A. Books (10 in total)

1. **Biswajeet Pradhan** and Maher Ibrahim Sameen (2019) "Laser Scanning Systems in Highway and Safety Assessment".
   eBook ISBN 978-3-030-10374-3; Hardcover ISBN 978-3-030-10373-6.
   https://www.springer.com/gp/book/9783030103736
2. **Biswajeet Pradhan** (2019) "GCEC 2017 Proceedings of the 1st Global Civil Engineering Conference". ISBN 978-981-10-8016-6
   https://www.springer.com/gp/book/9789811080159
3. El-Askary, H., Lee, S., Heggy, E., **Pradhan, B**. (2019). Advances in Remote Sensing and Geo Informatics Applications.
   https://www.springer.com/us/book/9783030014391
4. Biswajeet Pradhan (2017) "Laser Scanning Applications in Landslide Assessment".
   Haordcover ISBN 978-3-319-55341-2; eBook ISBN 978-3-319-55342-9,
   Springer International Publishing, Germany
   http://www.springer.com/us/book/9783319553412
5. Biswajeet Pradhan (2017) "Spatial Modeling and Assessment of Urban Form".
   Haordcover ISBN 978-3-319-54216-4; eBook ISBN 978-3-319-54217-1
   http://www.springer.com/us/book/9783319542164
6. Biswajeet Pradhan (2011) "3D terrain data compression using wavelets", 1st ed., pp. 220. ISBN 978-3-8465-2828-0. LAP LAMBERT Academic Publishing GmbH & Co. KG, Saarbrücken, Germany.
   https://www.lap-publishing.com/catalog/details/store/ru/book/978-3-8465-2828-0/3d-terrain-data-compression-using-wavelets?locale=gb
7. Biswajeet Pradhan (2011) "Geoinformation techniques in disaster management". 1st ed., ISBN 978-3-8465-9053-9. pp.288
   LAP LAMBERT Academic Publishing GmbH & Co. KG, Saarbrücken, Germany
   https://www.lap-publishing.com/catalog/details/store/gb/book/978-3-8465-9053-9/geoinformation-techniques-in-disaster-management
8. **Biswajeet Pradhan** and Manfred F. Buchroithner (2012) "Terregenous Mass Movements", 1st ed., Springer-Verlag, Heidelberg. Pp. 398. ISBN 978-3-642-25494-9.
   http://www.springer.com/earth+sciences+and+geography/geographical+information+systems/book/978-3-642-25494-9
9. Hugo Scheer, **Biswajeet Pradhan**, Tatas H.P. Brotosudarmo, Leenawaty Limantara (2013) "Knoweldge creates development: The Role of Humboldt-Alumni in South East Asia", Edited by Hugo Scheer, Biswajeet Pradhan, Tatas H.P. Brotosudarmo, Eugenius Sadtono, Bernadetta Kwintiana Ane, pp. 148, Shaker-Verlag, Aachen, ISBN 978-3-8440-1403-7
10. Hugo Scheer, **Biswajeet Pradhan**, Tatas H.P. Brotosudarmo, Eugenius Sadtono, Bernadetta Kwintiana Ane (2013) "Synergy, Networking and The Role of Fundamental Research Development in South East Asia", Edited by Hugo Scheer, Biswajeet Pradhan,

Tatas H.P. Brotosudarmo, Eugenius Sadtono, Bernadetta Kwintiana Ane, pp. 355, Shaker-Verlag, Aachen, ISBN 978-3-8440-1403-7
http://humboldt-icons.machung.ac.id

B. Chapters in Books (Total = 24)

1. Maher Ibrahim Samee, Ratitanjan Jena, and **Biswajeet Pradhan*** (2019). "*Geospatial Technology Applications in Environmental Disaster Management*" in Sustainable Energy and Environment, Edited by Sandeep Narayan Kundu, Muhammad Nawaz Apple Academic Press. ISBN. 9781771887632pub: 2019-02-15. https://www.routledge.com/Sustainable-Energy-and-Environment-An-Earth-System-Approach/Kundu-Nawaz/p/book/9781771887632
2. Lay, U.S., **Pradhan, B.** (2019). Identification of debris flow initiation zones using topographic model and airborne laser scanning data. Lecture Notes in Civil Engineering, 9, pp. 915-940.

   https://doi.org/10.1007/978-981-10-8016-6_65
3. Idrees, M.O., **Pradhan, B.** (2019). Frontier in three-dimensional cave reconstruction—3d meshing versus textured rendering. Lecture Notes in Civil Engineering,9, pp. 1029-1038.

   https://doi.org.10.1007/978-981-10-8016-6_72
4. Rizeei, H.M., **Pradhan, B.,** Saharkhiz, M.A. (2019). Surface runoff estimation and prediction regarding LULC and climate dynamics using coupled LTM, optimized arima and distributed-GIS-based SCS-CN models at tropical region. Lecture Notes in Civil Engineering, 9, pp. 1103-1126.

   https://doi.org/10.1007/978-981-10-8016-6_78
5. Lay, U.S., Jibrin, G., Tijani, I., **Pradhan, B.** (2019). Geomorphometric analysis of landform pattern using topographic position and aster GDEM. Lecture Notes in Civil Engineering, 9, pp. 1139-1160.

   https://doi.org/DOI: 10.1007/978-981-10-8016-6_80
6. Mokhtar, E.S., **Pradhan, B.,** Ghazali, A.H., Shafri, H.Z.M. (2019). Assessing vertical accuracy and the impact of water surface elevation from different DEM datasets. Lecture Notes in Civil Engineering, 9, pp. 849-862.

   https://doi.org/10.1007/978-981-10-8016-6_61
7. Norman, M., Shafri, H.Z.M., **Pradhan, B.,** Yusuf, B. (2019). Improved building roof type classification using correlation-based feature selection and gain ratio algorithms. Lecture Notes in Civil Engineering, 9, pp. 863-873.

   https://doi.org/10.1007/978-981-10-8016-6_62
8. Sameen, M.I., **Pradhan, B.,** Shafri, H.Z.M., Hamid, H.B. (2019). Applications of deep learning in severity prediction of traffic accidents. Lecture Notes in Civil Engineering, 9, pp. 793-808.

   https://doi.org/10.1007/978-981-10-8016-6_58
9. Mezaal, M.R., **Pradhan, B.,** Shafri, H.Z.M., Mojaddadi, H., Yusoff, Z.M. (2019). Optimized hierarchical rule-based classification for differentiating shallow and deep-seated

landslide using high-resolution lidar data. Lecture Notes in Civil Engineering, 9, pp. 825-84.

https://doi.org/10.1007/978-981-10-8016-6_60

10. Ahmed, A.A., Kalantar, B., **Pradhan, B.,** Mansor, S., Sameen, M.I. (2019). Land use and land cover mapping using rule-based classification in Karbala City, Iraq. Lecture Notes in Civil Engineering, 9, pp. 1019-1027.

    https://doi.org/10.1007/978-981-10-8016-6_71
11. Pradhan, B. (2019). Preface, Lecture Notes in Civil Engineering, 9, pp. V
12. Omar F. Althuwaynee and **Biswajeet Pradhan*** (2014). *"An Alternative Technique for Landslide Inventory Modeling Based on Spatial Pattern Characterization"* in ***Geoinformation for Informed Decisions***, Edited by A. Abdul Rahman et al. (eds.), Lecture Notes in Geoinformation and Cartography, pp. 35-48. DOI: 10.1007/978-3-319-03644-1_3, Springer International Publishing Switzerland 2014.

    http://dx.doi.org/10.1007/978-3-319-03644-1_3
13. Dieu Tien Bui, Chung Tien Ho, Inge Revhaug, **Biswajeet Pradhan,** and Duy Ba Nguyen. (2013). "Landslide Susceptibility Mapping Along the National Road 32 of Vietnam Using GIS-Based J48 Decision Tree Classifier and Its Ensembles" in M. Buchroithner et al. (eds.), Cartography from Pole to Pole, Chapter 21. Lecture Notes in Geoinformation and Cartography, DOI: 10.1007/978-3-642-32618-9_21, Springer-Verlag Berlin Heidelberg 2013. ISBN: 978-3-642-32617-2.
    http://dx.doi.org/10.1007/978-3-642-32618-9_22
14. Omar F. Althuwaynee and **Biswajeet Pradhan*** (2013). "Landslides: Causes, Mapping, and Monitoring: Examples from Malaysia" in Encyclopedia of Natural Hazards (ENH), Edited by Ramesh P. Singh, Taylor & Francis Group.
15. Mann, U., **Pradhan, B.*,** Prechtel, N., Buchroithner, M.F. (2011). "An automated approach for detection of shallow landslides from LiDAR derived DEM using geomorphological indicators in a tropical forest (Cameron Highlands, Malaysia)." in Terregenous Mass Movements, Edited by Biswajeet Pradhan and Manfred Buchroithner, Chapter 1, pp. 1-22, Springer-Verlag, Heidelberg, ISBN 978-3-642-25494-9
    http://dx.doi.org/10.1007/978-3-642-25495-6_1
16. Pourghasemi, H.R., **Pradhan, B.*,** Gokceoglu, C., Moezzi, K.D. (2011). "Landslide susceptibility mapping using a spatial multi criteria evaluation model at Haraz Watershed, Iran". in Terregenous Mass Movements, Edited by Biswajeet Pradhan and Manfred Buchroithner, Chapter 2, pp. 23-49, Springer-Verlag, Heidelberg, ISBN 978-3-642-25494-9
    http://dx.doi/org/10.1007/978-3-642-25495-6_2
17. Tobias Bolch, Juliane Peters, Alexandr Yegorov, **Biswajeet Pradhan,** Manfred Buchroithner • Victor Blagoveshchensky. (2011) "Identification of potentially dangerous glacial lakes in the northern Tian Shan" in Terregenous Mass Movements, Edited by Biswajeet Pradhan and Manfred Buchroithner, Chapter 12, pp. 368-398, Springer-Verlag, Heidelberg, ISBN 978-3-642-25494-9
    http://dx.doi.org/10.1007/978-3-642-25495-6_12
18. A'kif Al Fugura, **Biswajeet Pradhan*,** Thamer Ahmed Mohamed, Samih Rawashdeh (2011) "Simulation of Flood Reduction by means of Complex Structural Measures Using

Hydrodynamic Modelling and Aerial Photogrammetry-Derived DSM: Kuala Lumpur Flood Malaysia" in "Flood Risk and Flood Management" Edited by Dr. Tommy S. W. Wong. Chapter 6, pp. 103-140. ISBN: 978-1-62081-220-4, Nova Science Publishers, USA
https://www.novapublishers.com/catalog/product_info.php?products_id=32518

19. **Biswajeet Pradhan,** Shattri Mansor and Pirasteh, S. (2011) "Application of different data mining techniques in landslide susceptibility mapping: an assessment of the use of an advanced neural network model with five different training strategies" in the Book entitled "Artificial Neural Networks: Application" Edited by Chi Leung Patrick Hui. Pp. 360-388.
Published by N-TECH, Vienna, Austria, ISBN 978-953-307-188-6.
http://www.intechopen.com/books/show/title/artificial-neural-networks-application
20. **Pradhan, B.** (2011) "GIScience tools for climate change related natural hazards and modelling:in the book "Geoinformatics for Climate Change Studies", pp. 230-292.
Edited by P. K. Joshi and T.P. Singh, Published by Teri Press, India. ISBN: 9788179934098
http://bookstore.teriin.org/book_inside.php?material_id=643
21. Ruzinoor Che Mat, Abdul Rashid Mohamed Shariff, Ahmad Rodzi, and **Biswajeet Pradhan** (2011) 3D Terrain Visualization for GIS: A Comparison of Different Techniques in "True-3D in Cartography: Autosteroscopic and Steric Visualisation of Geodata (Lecture Notes in Geoinformation and Cartography)", Edited by M.F. Buchroithner, doi:10.1007/978-3-642-12272-9_18, pp.265-277
Springer-Verlag Berlin and Heidelberg GmbH & Co. KG, ISBN 978-3-642-12271-2; ISBN: 364212271X
http://dx.doi.org/10.1007/978-3-642-12272-9_18
22. **Pradhan, B.** and Mansor, S. (2007). "Three Dimensional Terrain Data Compression Using Second Generation Wavelets" Data Mining VIII: Data, Text and Web Mining and their Business Application: 2007, Ed. A. ZANASI, TEMIS Italia, Italy, C.A. BREBBIA, pp. 35-44. WIT Press, UK.
http://dx.doi.org/10.2495/DATA070041
23. Mansor, S., **Pradhan, B.,** Daud, M., Jamaludin, N. and Khuzaimah, Z. (2007). "Landslide susceptibility analysis using an artificial neural network model", Proceedings of SPIE -- Volume 6749, Remote Sensing for Environmental Monitoring, GIS Applications, and Geology VII, Manfred Ehlers, Ulrich Michel, Editors, 67490J (Oct. 29, 2007), pp. 1-7.
http://dx.doi.org/10.1117/12.738462
24. **Pradhan, B.,** Sandeep, K., Mansor, S., Ramli Abd. R. and Rashid A. M. (2006). "Multiresolution Spatial Data Compression Using Lifting Scheme"
Wavelet Analysis and Applications: Applied and Numerical Harmonic Analysis, pp. 503-513, A Birkhäuser book, Springer Publication.
http://dx.doi.org/10.1007/978-3-7643-7778-6_37

C. Journals-Published (ISI)

1. Abdulkareem, J.H., **Pradhan, B*.,** Sulaiman, W.N.A., Jamil, N.R. (2019). Prediction of spatial soil loss impacted by long-term land-use/land-cover change in a tropical watershed. Geoscience Frontiers, 10(2), pp. 389-403.
DOI: 10.1016/j.gsf.2017.10.010
2. Arabameri, A., **Pradhan, B*.,** Rezaei, K., Sohrabi, M., Kalantari, Z. (2019). GIS-based

landslide susceptibility mapping using numerical risk factor bivariate model and its ensemble with linear multivariate regression and boosted regression tree algorithms. Journal of Mountain Science, 16(3), pp. 595-618
DOI: 10.1007/s11629-018-5168-y

3. Mojaddadi Rizeei, H., **Pradhan, B.,** Saharkhiz, M.A. (2019). Urban object extraction using Dempster Shafer feature-based image analysis from worldview-3 satellite imagery. International Journal of Remote Sensing, 40(3), pp. 1092-1119
DOI: 10.1080/01431161.2018.1524173
4. Javdanian, H., **Pradhan, B.** (2019). Assessment of earthquake-induced slope deformation of earth dams using soft computing techniques. Landslides, 16(1), pp. 91-103.
DOI: 10.1007/s10346-018-1078-x
5. Fanos, A.M., **Pradhan, B.** (2019). A novel rockfall hazard assessment using laser scanning data and 3D modelling in GIS. Catena, 172, pp. 435-450.
DOI: 10.1016/j.catena.2018.09.012
6. Alilou, H., Rahmati, O., Singh, V.P., (...), Ghiasi, S.S., Sadeghi, S.H. (2019). Evaluation of watershed health using Fuzzy-ANP approach considering geo-environmental and topo-hydrological criteria. Journal of Environmental Management, 232, pp. 22-36
DOI: 10.1016/j.jenvman.2018.11.019
7. Kordestani, M.D., Naghibi, S.A., Hashemi, H., (...), Kalantar, B., **Pradhan, B**. (2019). Groundwater potential mapping using a novel data-mining ensemble model. Hydrogeology Journal, 27(1), pp. 211-224
DOI: 10.1007/s10040-018-1848-5
8. Chen, W., Yan, X., Zhao, Z., (...), Bui, D.T., **Pradhan, B.** (2019). Spatial prediction of landslide susceptibility using data mining-based kernel logistic regression, naive Bayes and RBFNetwork models for the Long County area (China). Bulletin of Engineering Geology and the Environment, 78(1), pp. 247-266
DOI: 10.1007/s10064-018-1256-z
9. Ahmed, A.A., **Pradhan, B*.** (2019). Vehicular traffic noise prediction and propagation modelling using neural networks and geospatial information system. Environmental Monitoring and Assessment, 191(3),190.
https://doi.org/10.1007/s10661-019-7333-3
10. Abdelkarim, A., Gaber, A.F.D., Youssef, A.M., **Pradhan, B.** (2019). Flood Hazard Assessment of the Urban Area of Tabuk City, Kingdom of Saudi Arabia by Integrating Spatial-Based Hydrologic and Hydrodynamic Modeling. Sensors (Basel, Switzerland), 19(5)
https://doi.org/10.3390/s19051024
11. Arabameri, A., **Pradhan, B*.,** Rezaei, K. (2019). Gully erosion zonation mapping using integrated geographically weighted regression with certainty factor and random forest models in GIS. Journal of Environmental Management, 232, pp. 928-942
https://doi.org/10.1016/j.jenvman.2018.11.110
12. Ashournejad, Q., Hosseini, A., **Pradhan, B.,** Hosseini, S.J. (2019). Hazard zoning for spatial planning using GIS-based landslide susceptibility assessment: a new hybrid integrated data-driven and knowledge-based model. Arabian Journal of Geosciences 12(4),126
DOI: 10.1007/s12517-019-4236-0
13. Abdulkareem, J.H., **Pradhan, B.,** Sulaiman, W.N.A., Jamil, N.R. (2019). Development of lag time and time of concentration for a tropical complex catchment under the

influence of long-term land use/land cover (LULC) changes. Arabian Journal of Geosciences. 12(3),101
DOI: 10.1007/s12517-019-4253-z

14. Darabi, H., Choubin, B., Rahmati, O., (...), **Pradhan, B.,** Kløve, B. (2019). Urban flood risk mapping using the GARP and QUEST models: A comparative study of machine learning techniques. Journal of Hydrology, 569, pp. 142-154
DOI: 10.1016/j.jhydrol.2018.12.002
15. Azeez, O.S., **Pradhan, B.,** Shafri, H.Z.M., (...), Lee, C.-W., Rizeei, H.M. 2019 Modeling of CO emissions from traffic vehicles using artificial neural networks. Applied Sciences (Switzerland), 9(2),313
Doi:10.3390/app9020313
16. Arabameri, A., **Pradhan, B.,** Rezaei, K. (2019). Spatial prediction of gully erosion using ALOS PALSAR data and ensemble bivariate and data mining models. Geosciences Journal
DOI: 10.1007/s12303-018-0067-3
17. Golhani, K., Balasundram, S.K., Vadamalai, G., **Pradhan, B.** (2019). Estimating chlorophyll content at leaf scale in viroid-inoculated oil palm seedlings (Elaeis guineensis Jacq.) using reflectance spectra (400 nm–1050 nm). International Journal of Remote Sensing, Article in Press.
DOI: 10.1080/01431161.2019.1584930
18. Rehman, J., Sohaib, O., Asif, M., **Pradhan, B.** (2019). Applying systems thinking to flood disaster management for a sustainable development. International Journal of Disaster Risk Reduction, Article in Press.
DOI: 10.1016/j.ijdrr.2019.101101
19. Sheikhrahimi, A., Pour, A.B., **Pradhan, B.,** Zoheir, B. (2019). Mapping hydrothermal alteration zones and lineaments associated with orogenic gold mineralization using ASTER data: A case study from the Sanandaj-Sirjan Zone, Iran. Advances in Space Research, Article in Press.
DOI: 10.1016/j.asr.2019.01.035
20. Golhani, K., Balasundram, S.K., Vadamalai, G., **Pradhan, B.** (2019). Selection of a Spectral Index for Detection of Orange Spotting Disease in Oil Palm (Elaeis guineensis Jacq.) Using Red Edge and Neural Network Techniques. Journal of the Indian Society of Remote Sensing, Article in Press
DOI: 10.1007/s12524-018-0926-4
21. Skilodimou, H.D., Bathrellos, G.D., Chousianitis, K., Youssef, A.M., **Pradhan, B.** (2019). Multi-hazard assessment modeling via multi-criteria analysis and GIS: a case study Environmental Earth Sciences, 78(2),47.
DOI: 10.1007/s12665-018-8003-4
22. Chen, W., **Pradhan, B*.,** Li, S., (...), Hou, E., Wang, S. (2019). Novel Hybrid Integration Approach of Bagging-Based Fisher's Linear Discriminant Function for Groundwater Potential Analysis. Natural Resources Research, Article in Press.
DOI: 10.1007/s11053-019-09465-w
23. Fanos, A.M., **Pradhan, B**.*, Mansor, S., Yusoff, Z.M., Abdullah, A.F., Jung, H.-S. (2019). Rockfall Source Identification Using a Hybrid Gaussian Mixture-Ensemble Machine Learning Model and LiDAR Data.
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D. Conference Proceedings

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10. **Biswajeet Pradhan** (2016). "Unplanned Agricultural Activities: Monitoring the anthropogenic impact on the hidden majority in land degradation ecosystems using geospatial technologies".
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56. **Pradhan, B.** and Awang, M. A. (2006). "*Application of Remote Sensing and GIS for Forest Fire susceptibility Mapping Using Likelihood Ratio Model*" Proceedings of Map Malaysia 2007 held at Kuala Lumpur, 3 – 4 May 2006.
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57. Mansor, S., **Pradhan, B.,** B., Ramli, A. R., Shariff, A. R. (2006). "*Trends in Geospatial Data Compression*" Invited lecture in the International Conference on 8th Surveyor Congress, 14- 16 June 2006, Kuala Lumpur, Malaysia.
58. Mansor, S. and **Pradhan, B.** (2006). "*Application of Remote Sensing and GIS for Disaster Prevention and Management*" Invited lecture at International Workshop on Geohazard from 29 – 30 June 2006, Kuala Lumpur, Malaysia.
59. **Pradhan, B**. and Mansor, S. (2006). "*Three Dimensional Terrain Data Compression for Progressive Web Visualization*" Presented at First International 3D Geoinformation Conference and Workshop from 7 – 8 August 2006 at Kuala Lumpur, Malaysia.
60. **Pradhan, B.** (2006). "*Landslide Prediction and Prevention Using Remote Sensing Data and GIS*" Invited talk at Annual GIS Conference 2006 from 13 – 14 July at kuala Lumpur, Malaysia
61. **Pradhan, B.,** Mohd. Dini Hairi Bin Suliman., Mohd Arshad Bin Awang and Hamid Assilzadeh. (2005). "Forest Fire susceptibility Mapping Using Frequency Ratio Model", Proceedings of International Conference on Spatial and Computational Engineering- International Advanced Technology Congress, 2005, 6-8 December 2005, Putrajaya, Malaysia
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67. Shattri Mansor**, Pradhan, B.,** Sandeep, K., Ramli Abd. R. (2005). *"Spatial Data Compression Using Delaunay Triangulation*" Proceedings of 4th Malaysian Remote Sensing and GIS conference & Exhibition 2005, 5- 6th April, 2005 at Kuala Lumpur
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69. Patra, B. and **Pradhan, B**. (2004). "*Development of a GIS Data Base for Environmental Monitoring*". Proceedings of International Symposium and Exhibition on Geoinformation 2004, 21- 23 September, Kuala Lumpur, Malaysia.
70. **Pradhan, B**., Sandeep. K., Mansor, S. and Ramli, Abd. R. (2004). "*A fast processing algorthim for GIS data compression using second generation wavelets*". Proceedings of International Symposium and Exhibition on Geoinformation 2004, 21- 23 September, Kuala Lumpur, Malaysia.
71. Kundu, S. and **Pradhan, B**. (2004). "*Multiple Representations through Categorical Map Generalization*". Proceedings of International Symposium and Exhibition on Geoinformation 2004, 21- 23 September, Kuala Lumpur, Malaysia.

CONFERENCE / SEMINAR (INTERNATIONAL)

1. **Biswajeet Pradhan** (2016). "Multi-sensor remote sensing data & geoinformation tools for natural hazards monitoring, modeling and mitigation for disaster risk reduction". 2016 International Conference on Disaster Mitigation and Management for Sustainable Development & Risk Reduction, 22-24 February 2016, National Institute of Technology, Trichy, India.
   (Keynote Speaker)
2. **Biswajeet Pradhan** (2016). "Multi-sensor space borne remote sensing data & geospatial tools for natural hazards monitoring, forecasting and mitigation for disaster risk reduction".
   Mitigation of disasters due to severe climate events: from policy to practice, Colombo, Sri Lanka, march 10-13, 2016.
   (Keynote Speaker)

72. **Biswajeet Pradhan** (2015). "The Impacts of Climate Change on Malaysia's Environmental & Natural Resources".
    2015 International Conference on Climate Change: Ecology, Environment & Energy (3E) for Low-Carbon Sustainable Homeland, 20-22 April 2015, National Taiwan University, Taipei, Taiwan.
    (Keynote Speaker)
73. **Biswajeet Pradhan** (2016). "MULTI-SENSOR REMOTE SENSING DATA & GEOSPATIAL TOOLS FOR NATURAL HAZARDS MONITORING, FORECASTING AND MITIGATION FOR DISASTER RISK REDUCTION".

Invited Talk to National University of Singapore (NUS), 15 -18 Sepetmber 2016, National University of Singapore.
(Keynote Speaker)

74. **Biswajeet Pradhan** (2015). "Spatial landslide hazard and risk assessment using high resolution airborne LiDAR data: case study along NS-Expressways".
    PSKLM International Expressway Conference & Exhibition 2015 (PIECE 2015), May 25th - 27th 2015, MATRADE Exhibition and Convention Centre, Kuala Lumpur, Malaysia.
    (Keynote Speaker)
75. **Biswajeet Pradhan*,** Mahyat Shafapour Tehrany, Mustafa Neamah Jebur (2016) "An automated flood detection mapping based on TerraSAR-X satellite image through ensemble classification approaches".
    FIG Working Week 2016, Christchurch, New Zealand from 2- 6 May 2016.
76. **Pradhan, B.,** Jena, R. (2016). Spatial relationship between earthquakes, hot-springs and faults in Odisha, India.
    IOP Conference Series: Earth and Environmental Science 37(1),012070
77. Haleh Nampak and **Biswajeet Pradhan*** (2016) "Use of multi-temporal SPOT-5 satellite images for land degradation assessment in Cameron Highlands, Malaysia using Geospatial techniques".
    41st COSPAR Scientific Assembly, held in Istanbul, Turkey from 30th July -7th August 2016.
78. Maher Ibrahim Sameen and **Biswajeet Pradhan*** (2016) "FORECASTING SEVERITY OF TRAFFIC ACCIDENTS USING ROAD GEOMETRY EXTRACTED FROM MOBILE LASER SCANNING DATA".
    37th Asian Conference on Remote Sensing (ACRS 2016), held in Colombo, Sri Lanka from 17-21 October 2016.
79. Maher Ibrahim Sameen and **Biswajeet Pradhan*** (2016) "A novel built-up spectral index developed by using multiobjective particle-swarm-optimization technique".
    8th IGRSM International Conference and Exhibition on Remote Sensing & GIS (IGRSM 2016) IOP Publishing. IOP Conf. Series: Earth and Environmental Science 37 (2016) 012006 doi:10.1088/1755-1315/37/1/012006
80. Abdinur Abdulle, Adhwa Amir Tan, **Biswajeet Pradhan*** and Saleh Abdullahi (2016) "Temporal assessment on land use land cover of Somalia after the effect of the civil war using remote sensing".
    8th IGRSM International Conference and Exhibition on Remote Sensing & GIS (IGRSM 2016) IOP Publishing. IOP Conf. Series: Earth and Environmental Science 37 (2016) 012063 doi:10.1088/1755-1315/37/1/012063
81. Suzana Binti Abu Bakar, **Biswajeet Pradhan*,** Usman Salihu Lay and Saleh Abdullahi (2016) "Spatial assessment of land surface temperature and land use/land cover in Langkawi Island". 8th IGRSM International Conference and Exhibition on Remote Sensing & GIS (IGRSM 2016) IOP Publishing
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82. Amir Nouri Manafizad, **Biswajeet Pradhan*** and Saleh Abdullahi (2016) "Estimation of Peak Ground Acceleration (PGA) for Peninsular Malaysia using geospatial approach". 8th IGRSM International Conference and Exhibition on Remote Sensing & GIS (IGRSM 2016) IOP Publishing
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83. Mas Sazali Hashim, Saiful Nizam Saip, Nurfauziah Hani, **Biswajeet Pradhan*** and Saleh

Abdullahi (2016) “Accuracy assessment of NOGGIN Plus and MALÅ RAMAC X3M single channel ground penetrating RADAR (GPR) for underground utility mapping”.
8th IGRSM International Conference and Exhibition on Remote Sensing & GIS (IGRSM 2016) IOP Publishing
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84. Haleh Nampak, **Biswajeet Pradhan*** (2015) “Delineation of Groundwater Potential Zone for Agricultural Purposes Using GIS-Based Models”.
Proceedings of 2nd International Conference on Agricultural and Food Engineering, CCAFEi2015, 25-27 August 2015, UPM, Malaysia.
85. Saleh Abdullahi, **Biswajeet Pradhan*** (2015) “Compact city land use change modeling: A solution for sustainable agricultural resources management”.
Proceedings of 2nd International Conference on Agricultural and Food Engineering, CCAFEi2015, 25-27 August 2015, UPM, Malaysia.
86. Kouame Yao, Mohd Barakat A. Gibril, Suzanna A. Bakar, **Biswajeet Pradhan*** (2015) “Fusion of space-borne optical and Radarsat-2 satellite images for optical mapping of Hilir Perak agriculture setting”.
Proceedings of 2nd International Conference on Agricultural and Food Engineering, CCAFEi2015, 25-27 August 2015, UPM, Malaysia.
87. Kamlesh Golhani, Siva K Balasundram, Ganesan Vadamalai, **Biswajeet Pradhan** (2015) “Identification of spectral bands for early detection of pathogenic infection of Coconut cadang cadang viroid in oil palm using spectroscopy and multivariate analysis”.
Proceedings of 2nd International Conference on Agricultural and Food Engineering, CCAFEi2015, 25-27 August 2015, UPM, Malaysia.
88. Kelvin Kang Wee, **Biswajeet Pradhan** (2015). “Converting Digital Number into Bathymetric Depth: A Case Study over Coastal and Shallow Water of Langkawi Island, Malaysia”.
Proceedings of FIG Working Week 2015: From the Wisdom of the Ages to the Challenges of the Modern World, Sofia, Bulgaria, 17-21 May 2015.
89. Biswajeet Pradhan. (2014). "Synergistic Application of Geoinformation Techniques and Statistical and Data Mining Models in Landslide Mapping".
Proceedings of First Landslide Conference entitled "Awareness on Landslide Risks, its causes, mitigation and prevention, 15th January 2014. Bandar Seri Bagwan, Brunei Daru Selam,
(Keynote Speaker)
90. Abubakr A. A. Al-sharif, **Biswajeet Pradhan***, Helmi Zulhaidi Mohd Shafri, Shattri Mansor (2014). “Quantitative Analysis of Urban Sprawl in Tripoli using Pearson’s Chi-Square Statistics and Urban Expansion Intensity Index”.
Proceedings of IGRSM 2014 Conference, Kuala Lumpur, Malaysia.
91. Omar F. Althuwaynee, **Biswajeet Pradhan***, Noordin Ahmad (2014). “Landslide susceptibility mapping using decision-tree based CHi-squared automatic interaction detection (CHAID) and Logistic regression (LR) integration”.
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92. Mohsen Dadras*, Helmi Zulhaidi Mohd Shafri, Noordin Ahmad, **Biswajeet Pradhan**, Sahabeh Safarpour. “Spatial-temporal of urban sprawl pattern and fragmentation in bandar abbas city, iran”.
Proceedings of IGRSM 2014 Conference, Kuala Lumpur, Malaysia.
93. Aminreza Neshat, **Biswajeet Pradhan***, Helmi Zulhaidi Mohd Shafri , Mohsen Dadras,

Haleh Nampak. (2013). "*Combining AHP with GIS for Evaluation of Groundwater Vulnerability*".
Paper 204. Proceedings of 3rd International Conference on Environmental Pollution (ICEPR 2013.), July 15-17, Toronto, Ontario, Canada.

94. Abubakr A. A. Alsharif, **Biswajeet Pradhan*.** (2013). "*Efficiency and Reliability of Probabilistic Based Frequency Ratio Model (FR) in Urban Growth Modelling*".
34 Asian Conference on Remote Sensing (ACRS 2013.), October 20-24, Bali, Indonesia.
95. Omar Althuwaynee, **Biswajeet Pradhan*.** (2013). "*Ensemble of statistical EBF into a Knowledge based AHP for slopes failures mapping*".
34 Asian Conference on Remote Sensing (ACRS 2013.), October 20-24, Bali, Indonesia.
96. Siti Nur Afiqah Aman, Zulkiflee Abd Latif, and **Biswajeet Pradhan** (2013. "*Spatial Probabilistic Approach on Landslide Susceptibility Assessment from High Resolution Sensors Derived Parameters*."
Proceedings of the 8th International Symposium On Digital Earth 2013 (ISDE2013). 26-29 August 2013, Kuching, Sarawak, Malaysia.
97. Omar Althuwaynee, **Biswajeet Pradhan***. (2013). "*An Alternative Technique for Landslide Inventory Modeling based on Spatial Pattern Characterization*."
Proceedings of 12th International Symposium & Exhibition on Geoinformation 2013 (ISG 2013), 22-25 September 2013. Kuala Lumpur, Malaysia.
98. Zulkiflee Abd Latif, Siti Nur Afiqah Aman, **Biswajeet Pradhan**. (2013). "*Exploitation of LiDAR data for spatial prediction of landslides in tropical area*."
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99. Zulkiflee Abd Latif, Siti Aekbal Salleh, **Biswajeet Pradhan**. (2013). "*Solar Photovoltaic Potential Assessment Over Residential Area Rooftops Using LiDAR Techniques*."
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100. Zulkiflee Abd Latif, Nur Hidayah Ibrahim, Izzati Zamri, **Biswajeet Pradhan**. (2013). "*Tree Species Identification and Classification Using High Resolution Remotely-Sensed Data*."
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101. **Biswajeet Pradhan***, Zulkiflee.Abd Latif, Siti Nur Afiqah Aman (2012). "*Application of airborne LiDAR derived parameters and probabilistic based frequency ratio model in landslide susceptibility assessment*".
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on Environmental Modeling & Software (iEMSs 2012). July 1- 5, 2012, Leipzig, Germany.

104. **Biswajeet Pradhan**, Keivan Kabiri (2012). *Spectral and spatial resolution analysis of multi sensor satellite data for coral reef mapping: Tioman Island, Malaysia*. Proceedings of 39th COSPAR Scientific Assembly. July 14-22, 2012, Mysore, India.

105. Keivan Kabiri, **Biswajeet Pradhan**, Yasser Ghobadi, Saeid Pirasteh (2012). *Monitoring of red-tide using MODIS-Aqua satellite images in the Persian Gulf*. Proceedings of 39th COSPAR Scientific Assembly. July 14-22, 2012, Mysore, India.

106. Yasser Ghobadi, **Biswajeet Pradhan**, Helmi Zulhaidi Mohd. Shafri, Keivan Kabiri, Saeid Pirasteh (2012). *Wetland change detection using multi-temporal Landsat imagery: Hor-Al- Azim wetland, Iran*. Proceedings of 39th COSPAR Scientific Assembly. July 14-22, 2012, Mysore, India.

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(Invited Speaker)

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(Keynote Speaker)

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(Invited Speaker)

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163. **Pradhan, B.** (2006). "*Landslide Prediction and Prevention Using Remote Sensing Data and GIS*" Invited talk at Annual GIS Conference 2006 from 13 – 14 July at Kuala Lumpur, Malaysia
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166. **Pradhan, B.,** Mohd. Dini Hairi Bin Suliman., Mohd Arshad Bin Awang and Hamid Assilzadeh. (2005). "Forest Fire susceptibility Mapping Using Frequency Ratio Model", Proceedings of International Conference on Spatial and Computational Engineering- International Advanced Technology Congress, 2005, 6-8 December 2005, Putrajaya, Malaysia
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169. Kundu, S. N. and **Pradhan, B.,** 2003, "*Surface Area Processing in GIS*". Proceedings of Map Asia 2003, 13- 15th October, PWTC, Kuala Lumpur, Malaysia, pp. 1-6. http://www.gisdevelopment.net/technology/gis/ma03191pf.htm
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171. Pradhan, Y., **Pradhan, B.**, Nayak, S. and Mohanty, P. K. (2004). "*Synergetic use of multi-satellite data in understanding ocean surface circulation in the Bay of Bengal*". Proceedings of International Symposium and Exhibition on Geoinformation 2004, 21- 23 September, Kuala Lumpur, Malaysia, pp. 1-14
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174. **Pradhan, B.,** Singh, R. P. and Buchroithner, M. F. (2004). "*Estimation of Stress and Its Use in Evaluation of Landslide Prone Regions Using Remote Sensing Data*". Proceedings of 35th COSPAR International Scientific Assembly, Paris, France, 2095p. http://adsabs.harvard.edu/abs/2004cosp...35.2090P
175. Patra, B. and **Pradhan, B**. (2004). "*Development of a GIS Data Base for Environmental Monitoring*". Proceedings of International Symposium and Exhibition on Geoinformation 2004, 21- 23 September, Kuala Lumpur, Malaysia.
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E. News Articles

1. Buletin GIS, Published by Mapping the Policy and Coordination, Department of Survey and Mapping Malaysia,

2. Satellitendaten für Katastrophenmanagement, Dresdner Universitäts journal 18/2008.

3. Penyeledik UPM Cipta system pemindahan data, Berita Harian, 14/4/2006.

Appointments

11. APPOINTMENTS

A. Universiti Putra Malaysia (UPM) Appointments

1. Research Development Coordinator for Department of Civil Engineering, 2016-2017
2. Research and Development Coordinator for GISRC Research Center
3. Coordinator for Geology & Geomatics Camp for Department of Civil Engineering (4 years)
4. Ketua bidang Penyelidikan (Geomatic/GIS) at Department of Civil Engineering
5. Ketua Bidang Pengajian Dengan Tesis (Geomatik/GIS) for Department of Civil Engineering
6. Head of the Laboratory, Civil Engineering Drawing Laboratory
7. Committee of GISRC colloquium/ Principal Researcher for GISRC (5 years)
8. Committee of the Faculty Conference, ICFASEI-2015. Technical Committee Member Coordinator
9. Member, Curriculum review for RSGIS- Program (MSc) for 2014-2016
10. Member, Curriculum review for ERP- Program (MSc) for 2014-2016
11. Member of Faculty Technical Evaluator Research Grant, 2013-2016
12. Member of Technical Evaluator FRGS Grant-UPM, 2013-2016.
13. Member of Technical Evaluator Putra Grant-UPM, 2013-2016.
14. Committee of the Faculty Conference- Global Civil Engineering Conference-2017 Technical Committee Coordinator
15. Coordinator for PhD-MSc Program of Remote Sensing and GIS Group to the visitors of Gaja Medah University, Indonesia, 2015
16. Member of International workshop - A Course on the management of flash flood in semi-arid urban environment, 25-29 August 2013.
17. Member of Unversity Flood Research & Mitigation Team, 2014.
18. Committee Member for Review of the Co-Curriculum Program for CEng. –UPM, 2014-2016.

19. Member of Technical Evaluator Grant-ITMA (2012-2015).

20. Guest Editor, Pertanika Journal of Science & Technology, UPM Press.

21. Committee member of International Advanced Technology Congress from 6th–8th December 2005 at Putrajaya, Malaysia.

B. Appointments in Malaysia

1. **Chair,** IEEE Geoscience and Remote Sensing, Malaysia Chapter. 2017-2018.

2. Committee Member for review of the National Slope Master Plan in the year 2016 for 2009-2023.

3. **Co-Chairman** for the IEEE Workshop on Geoscience and Remote Sensing 2016 (IWGRS2016), UPM, Malaysia

4. Permanent member for "Pelantikan Sebagai Wakil UPM Dalam Bahagian Geomatik Dan Ukur (GLS) Sesi 2014/2015.

5. Permanent member for "Jawatankuasa Teknikal Penyelidikan Geoinformasi/ Geomatik Kebangsaan (JTPGGK)"

6. Academy of Science Malaysia, Honorary Affiliation, 2014

7. Panel Expert by AYRC- AKEPT for scientific report output, 2012.

8. Appointed Rapporteur for 2nd Annual Roundtable: sustainable transformation in agenda for high income nation and competitive human through capital academic research leadership" Ministry of Higher Education, Malaysia, 2012.

9. Exco member for IEEE-Geoscience and Remote Sensing, Malaysia Chapter

10. Technical Research Committee Member of Geoinformation / National Geomatics (JTPGGK)

11. Guest Editor, Journal of Science and Technology, Pertanika, Malaysia, 2012.

12. Executive Committee Member for International Symposium on Multi-Hazard and Risk 2015 (ISMHR 2015), 23-24 March 2015, Kuala Lumpur

13. Executive Committee member for 7th International Conference and Exhibition on Remote Sensing and GIS, 21-22April 2014, Kuala Lumpur, Malaysia.

14. Executive Committee Member for International Seminar on Advanced Active Remote Sensing (SAARS-2013), Kuala Lumpur.

15. Exco Committee Member for Persidangan Royal Belum 2014, 2-3 December 2014, Belum Rainforest Resort, Gerik Perak.

16. Secretariat of the 13th International Symposium and Exhibition on Geoinformation (ISG-2014), PWTC, Kuala Lumpur, Malaysia.

17. Executive Committee Member of the 7th International Conference and Exhibition on Remote Sensing and GIS, 21-22April 2014, Kuala Lumpur, Malaysia

18. Flood Disaster Assessment Workshop Member, 14-15 September 2015, The Everly Hotel, Putrajaya. Organized by MOHE.

19. Research and Postgraduate Study Opportunities in Germany – Information Seminar, December 18-2015, Organized by German Academic Exchange and Universiti Kebangsaan Malaysia@ Graduate Centre and Centre for Research & Instrumentation Management.

20. Member of Working Group 4: Inetgrated Land Resources Management under Technical Research Committee Geoinformation / National Geomatics (JTPGGK) series 5/2015, 1-2 September 2015, UiTM Shah Alam.

21. Member of Workshop for Taxonomy Malaysian Citation, 26 and August 27, 2015, Putrajaya International Convention Centre (PICC) Dataran Gemilang, Presint 5, Putrajaya, Organized by Ministry of Higher Education, Malaysia.

22. Project Team Member for "Projek Penghasilan Peta Bahaya Dan Risiko Cerun Di Kawasan Ipoh, Perak Dan Cameron Highlands, Pahang, Pahang (JMG / IP / BRC / 2014 - T2): Project Development Meeting No. 2/2015, 22 May 2015, the Sapphire Room, Headquarters JMG, Level 22, Bangunan Tabung Haji, Jalan Tun Razak, Kuala Lumpur.

23. Member of Working Group 4: Inetgrated Land Resources Management di Bawah Jawatankuasa Teknikal Penyelidikan Geoinformasi / Geomatik Kebangsaan (JTPGGK), 4 March 2015, UTM, Skudai.

24. Technical Committee workshop Geoinformation Research / National Geomatics 1/2014. 28 October 2014, the Department of Survey and Mapping Malaysia

25. Member for Seminar on the Role of Geoinformation Technology in Geohazard Management: Examples from South-East Asia, University of Nottingham, 2013, Malaysia

26. Member of Research Workshop WORKING GROUP MEETING "GEOSPATIAL SCIENCE, TECHNOLOGY AND APPLICATION, 6th December 2013, Hotel Equatorial Bangi

27. Member Monitoring Workshop 3 Research (FIG 2014). 18-20 October 2013, Avillion Legacy Melaka.

28. Workshop Publications and Research (BMB 2013), Agrotech Garden Resort, Hulu Langat, Selangor, 4-5 December 2013.

29. World Innovation Forum, 12-14 November 2013, Kuala Lumpur Convention Centre, Organized by MOSTI

30. Invited Speaker at Seminar on Publish and Flourish, 2013, UiTM, 2013, Malaysia.

31. Public seminar on "The role of geoinformation technologies in Geohazard Management", GIS Day-2012, Organized by Malaysian Society of Remote Sensing, 5-3-2012, UPM.

32. Invited Speaker at Workshop on High Quality Publication in ISI High Impact Factor Journals, 2012, UiTM, 2012, Malaysia.

33. Technical committee member for ASEAN technical workshop on development of the ASEAN petland fire prediction and early warning system, 20-21 March 2012, Kuala Lumpur, Malaysia

34. Member for AKEPT Centre for Leadership Research and Innovation (ACLRI) bersama Majlis Professor Negara (MPN) bertema 'Advancing Engineering for Nation Sustainability: Innovation and Evolution, 20 June 2016, organized by Ministry of Higher Education Malaysia.

35. Member for Higher Education Leadership Academy (AKEPT), Building Akademia Leadership through the tremendous Skill of Research Presentation, 24-25 May 2012. AKEPT.

36. Public seminar on Use of Remote Sensing Data & Geoinformation Tools For Natural Hazards Monitoring, Modeling, Management & Mitigation, 7th April 2011@ Seminar Room, Institute of Advanced Technology (ITMA)

37. Organizing Committee Memebr for WORKSHOP CONSOLIDATION OF DIRECTION AND STRATEGIC PLANNING 2012-2015 AKEPT RESEARCHERS YOUNG CIRCLE (YRC), 6 to 8 March 2012. The Higher Education Leadership Academy (AKEPT).

38. Conference Reviewer, 12th International Symposium & Exhibition on Geoinformation 2013 (ISG 2013)

39. Conference Reviewer, IGRSM 2016 Conference, Kuala Lumpur, Malaysia.

40. Conference Reviewer, IGRSM 2014 Conference, Kuala Lumpur, Malaysia.

41. Conference Reviewer, Active Remote Sensing SAARS 2013.

42. Conference Reviewer, 2012 IEEE Colloquium on Humanities, Science and Engineering Research (CHUSER 2012).

43. Conference Reviewer, 10th International Symposium & Exhibition on Geoinformation 2011 (ISG 2011).

44. Session Chairman & Conference Reviewer, The International Conference on Natural Sciences, Organized by Alexander Von Humboldt Foundation, Germany and Ma Chung University, Batu, Indonesia (ICONS 2011).

C. International Appointments

1. World Class Professor by by the Ministry of Research, Technology and Higher Education, Indonesia, 2018

2. **Guest Editor:** Remote Sensing (Impact Factor, 3.406).

3. **Guest Editor:** Sensors (Impact Factor, 2.475).

4. Guest Editor: Sustainability (Impact Factor, 2.075).

5. **Guest Editor:** Water (Impact Factor, 2.069).

6. Appointed as Visiting Professor by Sejong University, Seoul, South Korea (2017-2018).

7. Appointed as Visiting Professor by Sejong University, Seoul, South Korea (2016-2017).

8. **Associate Editor***, Cogent Engineering (ISI), 2017-to date.

9. **Associate Editor***, Cogent Geosciences (ISI), 2017-to date.

10. **Associate Editor***, The Open Transportation Journal (ISI), 2017-to date.

11. **Associate Editor***, Complex & Intelligent Systems (ISI), 2017-to date.

12. **Associate Editor***, Earth Systems and Environment (ISI), 2017-to date.

13. **Associate Editor***, Journal of Mountain Science (ISI Thomson IF: 1.017, SCOPUS, 2017-to date.

14. **Associate Editor***, Korean Journal of Remote Sensing, 2017-to date.

15. Appointed as External Evaluator by National Center of Science and Technology Evaluation, Kazakhstan, 2016.

16. **Humboldt (Germany) Ambassador Scientist**, 2015- till date.

17. **Associate Editor***, Geomatics, Natural Hazards and Risk (ISI Thomson IF: 0.98, SCOPUS, 2015-to date.

18. **Associate Editor:** Landslides (since 2014), (ISI Thomson: IF=30.049), Springer Publisher, Berlin.

19. **Associate Editor:** Arabian Journal of Geosciences (since 2010), (ISI Thomson: IF=1.152, SCOPUS), Springer Publisher, Berlin

20. **Guest Editor:** Geoscience Frontiers (Special Issue: 2014), Elsevier Publication.

21. **Asscociate Editor:** Central European Journal of Geosciences (since 2009), (ISI Thomson: IF= 0.56, SCOPUS), Degruyter Publisher, Poland

22. **Associate Editor:** International Journal of Geotechnical Earthquake Engineering (since 2013), (SCOPUS), ISI Global Publisher

23. **Editor:** Journal of Sensors (since 2014), (SCOPUS), Hindawi Publisher, USA

24. **Editor** of Disaster Advances Journal, since 2010 (SCOPUS), India.

25. **Editorial Board Member** of International Journal of Landslide and Environment, Since 2014- till date

26. **Editorial Board Member I**EEE Earthzine for Disasters, IEEE, USA. 2011-2013.

27. **External Panel Expert** by Machung University for evaluation of ICONS 2014.

28. **International Evaluator** by Elsevier Book Proposal, 2012- 2016.

29. **International Evaluator** by Wiley Book Proposal, 2012- 2016.

30. **International Evaluator** by Springer Book Proposal, 2012- 2016.

31. **International Evaluator** by Saudi Geological Survey, **Kingdom of Saudi Arabia**, 2014.

32. **International Scientific Committee** for International Conference on Global Civil Engineering Challenges in Sustainable Development and Climate Change, 17-18 March 2017, MITE Campus, India.

33. **International Scientific Committee** for 4th INTERNATIONAL SYMPOSIUM ON INNOVATIVE TECHNOLOGIES IN ENGINEERING AND SCIENCE University of Pécs / Hungary 1-3 Sept 2016

34. **International Advisory Committee** for 3rd International Conference on EARTH SCIENCES AND ENGINEERING (ICEE–2016) 17th – 18th June, 2016, Coimbatore, India.

35. **Technical Advisory Committee member** for 1st International Conference on Disaster mitigation and Management for Sustainable Development and Risk Reduction, 22-24 February 2016, NIT Trichi, India.

36. **Technical Committee Coordinator** for 8th IGRSM International Conference and Exhibition on Geospatial & Remote Sensing, 13-14 April 2016, Kuala Lumpur Malaysia.

37. **International Advisory Committee** for 3rd INTERNATIONAL CONFERENCE ON EARTH SCIENCES AND ENGINEERING, 17TH - 18TH JUNE, 2016

38. **Committee member** for Humboldt Network Committee Meeting@Berlin.

39. **Convenor and Scientific Committee** for the World Multidisciplinary Earth Sciences Symposium- WMESS 2015, 7-11 September 2015, Prague, Czech Republic

40. **International Scientific Committee member** for AGRI FISH 2015, "EMERGING TRENDS IN AGRICULTURAL INFORMATION TRANSFER: AN INTERNATIONAL PERSPECTIVE"

41. **International Scientific Committee** for Second International Conference on Agriculture, Aquaculture and Animal Science 2015 Colombo, Sri Lanka, 28-29 December 2015.

42. **Executive Committee/ Technical Committee Chairman** for International Symposium on Multi-Hazard and Risk 2015 (ISMHR 2015), 23-24 March 2015, Kuala Lumpur

43. **Technical Topic Committee Coordinator** for the 7th International Conference on Sustainable Agriculture for Food, Energy and Industry in Regional and Global Context (ICSAFEI, 2015), UPM, Malaysia.

44. **Secretariat / Technical Committee Chairman** for the 13th International Symposium and Exhibition on Geoinformation (ISG-2014), PWTC, Kuala Lumpur, Malaysia.

45. **Executive Committee/Technical Committee Chairman** for the 7th International Conference and Exhibition on Remote Sensing and GIS, 21-22April 2014, Kuala Lumpur, Malaysia International Seminar on Advanced Active Remote Sensing (SAARS-2013), Kuala Lumpur Executive Committee Technical Committee Chairman

46. **Scientific Committee** for Joint International Geoinformation Conference 2015, Kuala Lumpur, 28-30 October 2015.

47. **International Scientific Committee member** for HUMBOLDT KOLLEG & THE INTERNATIONAL CONFERENCE ON NATURAL SCIENCES, 2014, 25-28 September 2014.

48. **Committee Member** for 12th International Symposium and Exhibition on Geoinformation (ISG-2013), Kuala Lumpur, Malaysia.

49. **Secretariat and Technical Committee Chairman** for 11th International Symposium and Exhibition on Geoinformation (ISG-2012), Kuala Lumpur, Malaysia.

50. **Convener/ Session Chairman** for European Geosciences Union (EGU 2010) General Assembly 2010, Vienna, Austria, 02 -07 May 2010.

51. **Technical Reviewing Committee** for 2nd International Summer School and Conference, Taking the Benefits of Geographic Information Technologies Applied Geoinformatics for Society and Environment.

52. **Committee Member** for 11th International Symposium and Exhibition on Geoinformation (ISG-2004), Kuala Lumpur, Malaysia.

53. **International Evaluator** by Elsevier Book Proposal, 2013.

54. **International Evaluator** by Taylor & Francis for Book Proposal, 2013.

55. **International Evaluator** by Saudi Geological Survey, Kingdom of Saudi Arabia, 2013.

56. **External Panel Remote Sensing Expert** by Sejong University, Seoul 2013

57. **External Evaluator** by National Center of Science and Technology Evaluation, **Kazakhstan**, 2013.

58. **External Remote Sensing and GIS Expert** by Korean Institute of Mineral & Geosciences, 2013.

59. **External Evaluator** by National Center of Science and Technology Evaluation, **Kazakhstan**, 2014.

60. **External Evaluator** by **Dutch National Science Foundation** (NWO), 2014.

61. **External Evaluator by Research Council UK** (RCUK), 2010.

62. **External Evaluator by Austrian Science Fund, Austria**, Vienna, 2012,

63. **International Evaluator by Saudi Geological Survey**, Kingdom of Saudi Arabia, 2012.

64. **External Remote Sensing and GIS Expert** by Korean Institute of Mineral & Geosciences, 2011

65. **Convener** for three (3) high level scientific sessions at European Geosciences Union (EGU 2010) General Assembly 2010, Vienna, Austria, 02 -07 May 2010.

66. **International Evaluator by Saudi Geological Survey**, Kingdom of Saudi Arabia, 2010.

67. **International Evaluator by Saudi Geological Survey**, Kingdom of Saudi Arabia, 2009.

68. *Over 2400 international journal articles edited and review assignments till to date.

D. Appointments as Examiner for Students

1) PhD Examiner (35 Completed)

1. Suchi Mala, NIT Trichi, India, 2018
2. JAVIER Dymphna, UNE, Australia, 2018
3. ALGAHTANY Mofza, UNE, Australia, 2018

4. Aditya Kumar Verma, IIT Roorke, India, 2018
5. Hossein Abolghassemi Mahani, 2017, PhD
6. Talal Ahmed Basheer, 2017, PhD
7. Izni binti Mohd Zahidi, 2017, PhD
8. Nurul Ain Mohd Zaki, 2017, PhD
9. Bahareh Kalantarghorashi, 2017, PhD
10. Milad Hafezolghorani Esfahani, 2017, PhD
11. Mohd Azmi Mohd Zain, 2017, PhD
12. Kaveh Shahi, 2016, PhD.
13. Hossein Abolghassemi Mahani, 2016, PhD
14. Mohammad Zakri Tarmidi, 2016, PhD
15. Ramin Vaghei, 2016, PhD
16. Amir Fateh, 2016, PhD
17. Mohd Yazid bin Abdullah, 2016,PhD
18. Salahu Hamza Mohammed, 2016, PhD
19. Azuddin bin Bahari, External examiner for AeU University
20. Zailani Khujaimah, 2015, PhD
21. Hamdan bin Omar, 2015, PhD
22. Azuddin bin Bahari, 2014, PhD
23. Ladan Ebadi, 2014, PhD
24. Shahriar Shahbazpanahi, 2014, PhD
25. Salah Muamer Aburawe, 2014, PhD
26. Ehsan Zarrin Bashar, 2014, PhD
27. Abdolkhalegh Arvin Pili, 2013, PhD

28. Shohreh Liaghat, 2013, PhD

29. Rohana Abdul Rahman, 2013, PhD

30. Ebrahim Jahanshiri, 2013, PhD

31. Vahed Ghiasi, 2012, PhD

32. Saied Pormanafi, 2012, PhD

33. Ahmad Mokhtari, 2012, PhD

34. Seyed Ramzan Mousavi, 2011, PhD

35. Mahmoud Fawzi Al-Hader, 2011, PhD

2) MSc Examiner (38 Completed)

1. Pegah Khosropanah, 2011, MSc
2. Jwan Myaser, 2013, MSc
3. Wan Noni Afida Binti Ab Manan, 2014, MSc
4. Sara Khodadad, 2013, MSc
5. Mohd Zul Atfi bin Mohd Razali, 2014, MSc
6. Ebea Anetor, 2014, MSc
7. Hayder Abd Al-Razzaq Abd, 2013, MSc
8. Hossein Mojaddadi, 2013, MSc
9. Majd F.S. Alamawi, 2014, MSc
10. Mohammadvafa Vahabzadeh Shahri, 2014, MSc
11. Wan Noni Afida Binti Ab Manan, External examiner for UiTM Shah Alam
12. Heshmatollah Abdi, 2015, MSc
13. Maizatul Akma binti Mohamad, 2015, MSc
14. Jabbar Hsoon, 2015, MSc
15. Ammar Shaker, 2015, MSc

16. Muhammad Ali, 2015, MSc

17. Noor Azam bin Johari, 2015, MSc- ERP

18. Tan Wee Hing, 2015, MSc- ERP

19. Muhammad Hidayat Ismail, 2015, MSc- ERP

20. Mas Sazali, 2016, MSc

21. Adel Salem, 2016, MSc

22. Soroush Berkeh, 2016, MSc

23. Soheil Nikpour Khoshkroudi, 2016, MSc

24. Sarah Hanim Binti Samsudin, 2016, MSc

25. Nor Fazlyana binti Abdul Kadir, 2016, MSc- ERP

26. Zairul Ain binti Zulkaflli, 2016, MSc-ERP

27. Muhammad Thaqib Kamaruzzaman, 2016, MSc-ERP

28. Choo Ai Ling, External examiner for Multimedia University, Melaca

29. Maizatul Akma binti Mohammad, 2016, MSc

30. Mohd Shazwan bin Daud, 2016, MSc.

31. Hazimuddin Yob Tajudin, 2017, MSc.

32. Saad Nabeel, 2017, MSc.

33. Aidatul Izana Mohd Taha, 2017, MSc.

34. Muhammad Thaqib Kamaruzzaman, 2017, MSc-ERP

35. Wan Fadilah Wan Jamaludin, 2017, MSc- ERP

36. Shahnaz Basim Ali, 2017, MSc.

37. Mohd Khairul Alhapiz Ibrahim, 2017, MSc.

38. Jwan Myaser, 2017, MSc.

3) Bachelor Final Year Project, Industrial Training report, Practicum or Internship

1. Nurwajihah Binti Laili, 2016, Industrial training
2. Mohamad Ilmie Amirul Mumin, 2016, FYP-Bachelor
3. Khadaroo Sheik Mohammad Wakeel, 2016, FYP-Bachelor
4. Jiang Zhong, 2016, FYP-Bachelor
5. Muhammad Faisal Baharudin, 2015, FYP-Bachelor
6. Foo Jiunn Shyan (161516), 2014, Industrial training
7. Chia Chen Yang (162340), 2014, Industrial training
8. Natasha Danny, 2015, Internship students of UiTM Perlis
9. Siti Nur Alia binti Abu zaki, 2015, Internship students of UiTM Perlis
10. Muhamad Farid Bin Ramli, 2015, Internship students of UiTM Perlis
11. Muhammad Irfan Bin Jaafar, 2015, Internship students of UiTM Perlis
12. Muhammad Sharul Aikal bin Baharim, 2016, Internship students of UiTM Perlis
13. Ahmad Muqri Bin Amirudean, 2016, Internship students of UiTM Perlis
14. Chan Way Hong (156567), 2013, Industrial training
15. Atiqah Nazira Abd Rashid (160311), 2013, Industrial training

E. Student Academic Advisor

1. TALAL AMER
2. XU WEIDONG
3. ZEYAD ABDULLAH SALEH
4. FARSHAD DEHGHANMANSHADI
5. ABDULLAH OMAR AHMED AL-MASHGARI
6. RAPHAEL KENNETH LO KA KIONG
7. ALI RAHIMI
8. ABDUL JAMIL MURADI FAIZ MURAD
9. MUHAMMAD AZIZAN BIN JAAFAR

Professional Experience/ Consultancy

12. PROFESSIONAL EXPERIENCE/CONSULTANCY

A. Expert Consultancy/Services

8. Penyelidikan Bahaya, Risiko Project with Geoprobe Sdn. Bhd., December 2014. (***consultant***)

9. ASTER DEM correction, Spatialist Sdn Bhd, 2014. (***consultant***)

10. Developing a data sharing model for Malaysia, Subject Matter Expert Infrastructure University, KL, 2014. (***Subject matter expert***)

11. Penyelidikan Lereng Bukit (FASA-1) Project with Contract No: BSB/DTS/IV.03/2012 with Jabatan Kerja Raya, Brunei, January 2013. (***consultant***)

12. Landslide detection using laser scanning LiDAR data, Accelteam Sdn. Bhd., Malaysia, July 2013. (***consultant***)

13. Analysis of Rainfall Threshold Data for Landslide Failures, Technotest Sdn. Bhd., Brunei, February 2014. (***consultant***)

14. Landslide Susceptibility Analysis, Technotest Sdn. Bhd., Brunei, April. 2014. (***consultant***)

15. Landslide Hazard and Risk Modelling, Technotest Sdn. Bhd., Brunei, June. 2014. (***consultant***)

16. Environmental Impact Assessment for the Paddy field areas using GIS, Technotest Sdn. Bhd., Brunei, December. 2014. (***consultant***)

17. Panel Expert by AYRC- AKEPT for scientific report output, 2012.

18. Appointed Rapporteur for 2nd Annual Roundtable: sustainable transformation in agenda for high income nation and competitive human through capital academic research leadership" Ministry of Higher Education, Malaysia, 2012.

19. Appointed as Alexander von Humboldt Foundation (Germany) Ambassador Scientist, 2015.

20. Appointed as External Expert by Machung University for evaluation of ICONS 2014.

21. Appointed as International Evaluator by Elsevier Book Proposal, 2014.

22. Appointed as International Evaluator by Saudi Geological Survey, Kingdom of Saudi Arabia, 2014.

23. Appointed as International Evaluator by Elsevier Book Proposal, 2013.

24. Appointed as International Evaluator by Taylor & Francis for Book Proposal, 2013.

25. Appointed Expert by AYRC- AKEPT for scientific report output, 2012.

26. Appointed Rapporteur for 2nd Annual Roundtable: sustainable transformation in agenda for high income nation and competitive human through capital academic research leadership" Ministry of Higher Education, Malaysia, 2012.

27. Appointed as International Evaluator by Saudi Geological Survey, Kingdom of Saudi Arabia, 2013.

28. Appointed External Remote Sensing Expert by Sejong University, Seoul 2013

29. Appointed as External Evaluator by National Center of Science and Technology Evaluation, Kazakhstan, 2013.

30. Appointed External Remote Sensing and GIS Expert by Korean Institute of Mineral & Geosciences, 2013.

31. Appointed as External Evaluator by National Center of Science and Technology Evaluation, Kazakhstan, 2014.

32. Appointed as External Evaluator by Dutch National Science Foundation (NWO), 2014.

33. Appointed as External Evaluator by Research Council UK (RCUK), 2010.

34. Appointed as External Evaluator by Austrian Science Fund, Austria, Vienna, 2012,

35. Appointed as International Evaluator by Saudi Geological Survey, Kingdom of Saudi Arabia, 2012.

36. Appointed External Remote Sensing and GIS Expert by Korean Institute of Mineral & Geosciences, 2011

37. Appointed as Convener for three (3) high level scientific sessions at European Geosciences Union (EGU 2010) General Assembly 2010, Vienna, Austria, 02 -07 May 2010.

38. Appointed as International Evaluator by Saudi Geological Survey, Kingdom of Saudi Arabia, 2010.

39. Appointed as International Evaluator by Saudi Geological Survey, Kingdom of Saudi Arabia, 2009.

B. Invited Speaker/Talk/Panel/Lectures

1. **Keynote Speaker** at 1st International Conference on Science, Engineering, Law and Management (ICSELM 2017), 6 January 2017, Kuala Lumpur, Malaysia

2. **Keynote Speaker** at 2016 International Conference on Disaster Mitigation and Management for Sustainable Development & Risk Reduction, 22-24 February 2016, National Institute of Technology, Trichy, India.

3. **Keynote Speaker** at Mitigation of disasters due to severe climate events: from policy to practice, Colombo, Sri Lanka, march 10-13, 2016.

4. **Keynote Speaker** at National University of Singapore (NUS), 15 -18 Sepetmber 2016, National University of Singapore.

5. **Invited Speaker** at Technology & Applications for Disaster Management 2nd International Conference 2016 (TADMIC2016) which will be held from 19-20 October 2016 in Kuala Lumpur, Malaysia.

6. **Invited Speaker** at International Conference on "Agricultural and Food Engineering (CAFEi2016)" held in Kuala Lumpur, 23-25 August 2016.

7. **Keynote Speaker** at PSKLM International Expressway Conference & Exhibition 2015 (PIECE 2015), May 25th - 27th 2015, MATRADE Exhibition and Convention Centre, Kuala Lumpur, Malaysia.

8. **Keynote Speaker** at PSKLM International Expressway Conference & Exhibition 2015 (PIECE 2015), May 25th - 27th 2015, MATRADE Exhibition and Convention Centre, Kuala Lumpur, Malaysia.

9. **Keynote Speaker** at First Landslide Conference on "Awareness on Landslide Risks, its causes, mitigation and prevention, 15th January 2014. Bandar Seri Bagwan, **Brunei** Daru Selam, 2014.

10. **Keynote Speaker** at for Annual Jabatan Mienral dan Geosains Conference - 2014, Langkawi. 18June 2014.

11. **Session Chairman** at XXV International Federation of Surveyors Congress (FIG 2014), 16-21 June 2014, Kuala Lumpur, Malaysia

12. **Session Chairman** at International Conference on Natural Sciences (ICONS2014), Malang, East Java, Indonesia.

13. **Session Chairman** for 13th International Symposium and Exhibition on Geoinformation (ISG-2014), PWTC, Kuala Lumpur, Malaysia.

14. **Keynote Speaker** at Global Conference on Ethics in Science & Technology, 20-22 October 2011. The University of Santo Tomas, Manila, **Philippines**, 2011.

15. **Keynote Speaker** at 10th International Symposium & Exhibition on Geoinformation 2011 (ISG 2011), 27-19 September 2011. Shah Alam, Malaysia, 2011.

16. **Keynote Speaker** at 5th SASTECH: 5th Symposium on Advances in Science & Technology, Organized by Khavaran Higher Education Institute Fallahi Ghasemabad, Mashhad, Iran. 12 -17 may 2011, **Mashhad, Iran.**

17. **Invited Speaker** at the International Conference on Natural Sciences, Organized by Alexander Von Humboldt Foundation, Germany and Ma Chung University, Batu, Indonesia, 09-11 July 2011, Malang-Batu, Indonesia, 2011.

18. **Invited Speaker** at Technical Workshop on the Development of the ASEAN Peatland Fire Prediction and Warning System. 13-14 July 2010, Kuala Lumpur. Malaysia. 2010.

19. **Session Chairman** for International Seminar on Advanced Active Remote Sensing (SAARS-2013), Kuala Lumpur, 2013.

20. **Session Chairman** for 12th International Symposium and Exhibition on Geoinformation (ISG-2013), Kuala Lumpur, Malaysia.

21. **Session Chairman** for Global Conference on Ethics in Science & Technology, 20-22 October 2011. The University of Santo Tomas, Manila, Philippines.

22. **Invited Session Chairman** at 10th International Symposium & Exhibition on Geoinformation 2011 (ISG 2011), 27-19 September 2011. Shah Alam, Malaysia.

23. **Invited Session Chairman** at 5th SASTECH: 5th Symposium on Advances in Science & Technology, Organized by Khavaran Higher Education Institute Fallahi Ghasemabad, Mashhad, Iran. 12 -17 may 2011, Mashhad, Iran

24. **Invited Session Chairman** at The International Conference on Natural Sciences, Organized by Alexander Von Humboldt Foundation, Germany and Ma Chung University, Batu, Indonesia, 09-11 July 2011, Malang-Batu, Indonesia

25. **Invited Session Chairman** for European Geosciences Union (EGU 2010) General Assembly 2010, Vienna, Austria, 02 -07 May 2010.

26. **Invited Speaker** at Seminar on The Role of Geoinformation Technology in Geohazard Management: Examples from South-East Asia, University of Nottingham, 2013, Malaysia

27. **Invited Panel** for Bengkil Penyelidikan mesyuarat kumpulan kerja "geospatial science, technology and application, 6th December 2013, Bangi Equatorial Hotel

28. **Invited Speaker** at Bengkil Penerbitan dan Penyelidikan (BPP 2013), Agrotek Garden Resort, Hulu Langat, Selangor, 4-5 December 2013.

29. **Invited Speaker** at Seminar on Publish and Flourish, 2013, UiTM, 2013, Malaysia.

30. **Invited Speaker** at GIS Day-2012, Organized by Malaysian Society of Remote Sensing, 5-3-2012, UPM.

31. **Invited Speaker** at Workshop on High Quality Publication in ISI High Impact Factor Journals, 2012, UiTM, 2012, Malaysia.

32. **Invited Speaker** seminar on Use Of Remote Sensing Data & Geoinformation Tools For Natural Hazards Monitoring, Modeling, Management & Mitigation, 7th April 2011@ Seminar Room, Institute of Advanced Technology (ITMA).