



**PROF DR. KASTURI DEVI KANNIAH**

ORCHID ID: 0000-0001-6736-4819, RESEARCHER ID: K-6777-2012, SCOPUS ID: 6503862357)  
BA Honors (Uni. Malaya), M.Phil (Cambridge Uni. UK), PhD (Monash Uni. Australia)

**PROFILE**

**Prof. Dr. Kasturi Devi Kanniah**, is a full member of IPASA (Centre for Environmental Sustainability and Water Security), UTM and a member of the TropicalMap research group (Sustainability Research Alliance). Kasturi has been actively involved in research, teaching, consultancy, networking and publication activities since she joined UTM in 1999. She has been involved in 32 research (worth RM 10,888,918.00) and consultancy projects (worth of RM 4,806,448.15). Her main research interest is to link field data with remote sensing technology to study large scale (on land and in urban areas) vegetation processes and functioning including their role to achieve low carbon cities and managing atmospheric pollution. She has published nearly 100 publications consisting of refereed journals (46), books (5), book chapters (3), policy papers (6), ISI and scopus-indexed conference papers (28), refereed conference proceeding (13), magazine article (1), and monograph (1). Dr Kasturi has also produced 10 copyrights. Her H index is 22 with a cumulative impact factor of journal articles ~168.

She is the Associate Editor of the International Journal of Remote Sensing (IJRS, a Q2 journal) and an Editorial Board Member of the International Journal of Geoinformatics (IJG) (cited in Scopus). She has been the Guest Editor for special issues in both IJG and IJRS. She is a continuous reviewer for 23 international journals and has reviewed articles from some leading journals in the field of remote sensing such as Remote Sensing of Environment, International Journal of Remote Sensing, *SPIE* Journal of Applied Remote Sensing, Remote Sensing etc. She has been appointed as scientific and technical committee members for several international conferences.

She is also serving as the Committee member (chair for student activities) for IEEE Geoscience and Remote Sensing Society, Malaysia chapter since 2012. Her other professional memberships include IEEE Geoscience and Remote Sensing Society (IEEE GRSS), International Association for Urban Climate, International Association of Vegetation Science, International Association for Ecology, Associate Member of Committee for Space Research and a fellow of Cambridge Commonwealth Society. She has also received several national and international awards for research such as Marqui's who's who in the world 2012, 2013, 2014, Marqui's who's who in Science & Engineering 2016, Low Carbon City Framework Diamond Recognition Award by Malaysia Green Technology Corporation, several recognitions for publications by the National Space Agency, Ministry of Science, Technology & Innovation, Malaysia, Universiti Teknologi Malaysia, and scholarships to undertake postgraduate studies such as the International Postgraduate Research Scholarship by the Faculty of Arts, Monash University (for PhD), Monbusho Scholarship to undertake Research in Osaka University of Foreign Studies, Japan and Cambridge Commonwealth Trust & Ex-Gratia grant to undertake M.Phil degree in Cambridge University, UK.

## PERSONAL DETAILS

Name : Kasturi Devi Kanniah  
Gender : Female  
Date of Birth : 12 December 1970  
Nationality : Malaysian  
Marital Status : Married  
Department : Department of Geoinformation  
Faculty : Faculty of Built Environment & Surveying  
Administrative Post : Assistant Dean (Quality & Strategy), Faculty of Built Environment & Surveying  
Permanent Address : No 40 Jalan Bintang 4, Taman Angkasa, 81410 Senai, Johor  
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Website : <https://people.utm.my/kasturidevikanniah/>  
<http://www.staff.utm.my/portalv3/portal/kasturi/>  
ResearchGate: [https://www.researchgate.net/profile/Kasturi\\_Kanniah/](https://www.researchgate.net/profile/Kasturi_Kanniah/)

## ACADEMIC QUALIFICATION

May 24 to June 8, 2019	<b>Visiting Researcher</b> to Department of Earth System Science, Tsinghua University Funded by the Department of Earth System Science, Tsinghua University
2016-2017	<b>Visiting Research Fellow MIT-UTM</b> UTM Johor Bahru (1 September 2016 – 31 January 2017) & Massachusetts Institute of Technology (MIT) Boston, USA (1 February 2017 – 31 May 2017) Research Programme: Malaysia Sustainable Cities
June 2010-Nov 2011	<b>Honorary Research Fellow</b> , Monash University, Australia
2005-2009	<b>Doctor of Philosophy (PhD)</b> Geography & Environmental Science Monash University, Clayton Campus, Melbourne, Australia Thesis Title: Environmental controls on the spatial and temporal variability of savanna productivity in the Northern Territory, Australia Advisors: Prof. Dr. Jason Beringer, Prof. Nigel Tapper and Dr. Xuan Zhu
1997-1998	<b>Master of Philosophy (M.Phil)</b> GIS and Remote Sensing Cambridge University, UK Thesis Title: Temperature and colour analysis of volcanic crater lake using remote sensing techniques Advisor: Prof. Dr. Clive Oppenheimer
1996-1997	<b>Certificate</b> Industrial Geography Osaka University of Foreign Studies, Osaka, Japan Advisor: Prof. Dr. Takayama Masaki
1991-1995	<b>Bachelor of Arts (First class honors)</b> Geography Universiti Malaya, Malaysia

## AWARDS AND HONOURS RECEIVED

### International

1. Recipient of the Global Scholar Programme, of the Institute for Social Sciences Research, University of Dundee, UK (14 Aug – 25 Sept 2022).
2. International University Carnival on E-Learning (MOOC on Ocean Remote Sensing Towards Climate Resilience) – Silver Medal (2022).
3. Listed as Top 2% Scientist in Geological & Geomatics Engineering from Stanford University (2022).
4. Contributing to the 2020 Success of Stoten. Publication of "Covid-19's Impact on the Atmospheric Environment in the Southeast Asia Region"
5. Sustainable Production and Consumption Contribution in Reviewing October 2020.
6. Fully funded invitation to "2020 NASA Land Use/Cover Changes (LU/CC), Spring Science Team scientists Meeting", Bethesda, Maryland, USA and build collaborations with US scientists (18-24 Oct 2020)
7. Fully funded invitation for "An International Regional Science Training on "Remote Sensing of Land Use/Cover Change and Climate Impacts on Coastal Zone" in Phuket, Thailand. Sponsored by NASA (17-19 Dec 2019) – RM2691.47
8. Fully funded invitation for 1<sup>st</sup> Asia-Pacific Urban Symposium in Thammasat University (11-13 Dec 2019) - RM 2304.25.
9. Fully funded invitation for East Asian Symposium on Urban Forests Coping with Fine Dusts in Korea. Sponsored by National Institute of Forest Science (16-19 Oct 2019)- RM 4788
10. Fully funded invitation for 6<sup>th</sup> International Symposium on LAPAN-IPB Satellite (LISAT) on Food Security and Environmental Monitoring in IPB Bogor (17-18 Sept 2019)- RM2655.84
11. Fully funded invitation for The 6<sup>th</sup> Geoinformation Science Symposium 2019 in Faculty of Geography Universitas Gadjah Mada (26-27 Aug 2019) - RM 3283.76
12. Fully funded as Visiting Researcher at Department of Earth System Science, Tshinghua University (24 May – 8 June 2019) - RM RM 11,894.75
13. Science of the Total Environment Outstanding Contribution in Reviewing June 2018.
14. Remote Sensing of Environment Recognised Reviewer January 2018.
15. Journal of Cleaner Production Outstanding Contribution in Reviewing September 2017.
16. Journal of Cleaner Production Recognised Reviewer August 2017.
17. Environmental Pollution Recognised Reviewer August 2017.
18. Science of the Total Environment Recognised Reviewer February 2017.
19. Travel Grant to Hyderabad, India. International Conference on "Geo-spatial Technology for Natural Resource Management & Climate Change" sponsored by "National Institute of Rural Development, Ministry of Rural Development, India - RM3674.16
20. Travel Grant to Imperial College London. Remote Sensing and Photo-Grammetry Society Annual Conference (RSPSoc 2017) sponsored by "International Journal of Remote Sensing" RM11,000
21. Travel Grant to Manila, Phillipines. R & D Congress on Sustainable Urbanization in the Course of ASEAN Economic Integration. Sponsored by the Department of Environment of Natural Resources ecosystem-Ecosystem Research and Development Bureau (DENR-ERBD).
22. Universiti Teknologi Malaysia-Massachusetts Institute of Technology International Scholars Programme-Malaysian Sustainable Cities- from 1 September 2016-30 May 2017
23. Fully funded invitation for Forum/Meeting- Building Academic Community In Geography/Geoinformatics In Asean 2016 (1-5 August 2016)
24. Marqui's Who's Who in Science and Engineering 2016 (International recognition for noteworthy achievements that have proved to be of significant value to society)
25. Fully funded invitation for Forum/Meeting- Building Academic Community In Geography/Geoinformatics In Asean 2015 (3-7 August 2015)
26. Elsevier Recognised Reviewer 2015
27. PLOS ONE Recognised Reviewer 2015
28. Marqui's who's who in the world 2014 (International recognition for noteworthy achievements that have proved to be of significant value to society)
29. Marqui's who's who in the world 2013 (International recognition for noteworthy achievements that have

- proved to be of significant value to society)
30. Full sponsorship to participate in Capacity Building Workshop on 'Remote Sensing of the Global Water Circulation to Climate Change at Key Laboratory of Microwave Remote Sensing (MIRs/CAs), National Space Center (NSSC), Beijing, China (3-14 September 2012)- Sponsored by Committee on Space Research (COSPAR) and National Space Science Center, Chinese Academy of Sciences.
  31. Marquis who's who in the world 2012 (International recognition for noteworthy achievements that have proved to be of significant value to society)
  32. Full Scholarship to undertake PhD in Monash University, Australia (from May 2005 to September 2008) International Postgraduate Research Scholarship by the Faculty of Arts, Monash University (International Scholarship)
  33. Full Scholarship by Cambridge Commonwealth Trust and Ex-Gratia grant by Cambridge University to undertake M.Phil degree in Cambridge University, UK, 1997 (International Scholarship)
  34. Full Monbusho Scholarship to undertake Research in Osaka University of Foreign Studies, Japan, April 1995- October 1996 (International Scholarship)
  35. The International Biographical Centre Cambridge Certificate for Outstanding Scientific Achievement award 2015.
  36. Cambridge Certificate for Outstanding Scientific Achievement (2016)

### **National**

1. Persidangan dan Ekspo Ciptaan Institusi Pengajian Tinggi Antarabangsa (PECIPTA 2022), Anugerah Perak.
2. Lembaga Teknologis Malaysia Perakuan Pendaftaran Sebagai Teknologis Berijazah, 2021
3. UTM Low Carbon City Framework (LCCF) Diamond Recognition Award by Malaysia Green Technology Corporation, 2017
4. Recognition for Publication by the National Space Agency, Ministry of Science, Technology & Innovation, Malaysia 2014 (second place under Publication in Journal papers category) (National level Recognition)
5. Recognition for Publication by the National Space Agency, Ministry of Science, Technology & Innovation, Malaysia 2011 (second place under Publication in conference papers category) (National level Recognition)

### **University/Faculty**

1. 23<sup>rd</sup> Industrial Art and Technology Exhibition (INATEX 2021), Invention of Geotrees: An innovation of Tree Planting, Monitoring and Valuation.
2. Anugerah Kualiti Penyelidikan dan Inovasi - Majlis Anugerah Kecemerlangan FABU 2022
3. Anugerah Kualiti Perkhidmatan Tahun 2021 - Majlis Anugerah Kecemerlangan FABU 2022
4. Anugerah Kepimpinan Sempena "Majlis Tautan Kasih Aidilfitri & Penghargaan IPASA" (2022).
5. Anugerah Penerbitan (Anugerah Penulis dalam Jurnal Berindeks) – Majlis Citra Karisma 2022.
6. Anugerah Kualiti Perkhidmatan Tahun 2020 - Majlis Anugerah Kecemerlangan FABU 2021
7. Anugerah Kualiti Penyelidikan Dan Inovasi (Kategori Ketua Penyelidikan - Geran PDRU) Tahun 2020
8. Anugerah Kualiti Penyelidikan Dan Inovasi (Kategori Kumpulan Penyelidikan Tropicalmap) Tahun 2020
9. Excellent Service Award-2017 (Institute-RISE level Recognition based on 2017 achievements)
10. Excellent Service Award-2016 (Institute-RISE level Recognition based on 2016 achievements)
11. Excellent Service Award-2016 (Faculty level Recognition based on 2016 achievements)
12. Excellent Service Award-2016 (University level Recognition based on 2015 achievements)
13. One of the finalist for Publication in high impact factor Journals-2016 (University level Recognition based on 2015 achievements)
14. Anugerah Utama Tokoh Akademik- 2016 (Faculty level Recognition based on 2015 achievements)
15. Anugerah Utama (Penerbitan)-2016 (Faculty level Recognition based on 2015 achievements)
16. Anugerah Utama Knowledge Transfer Program-2016 (Faculty level Recognition based on 2015 achievements)
17. Anugerah Editor Penerbitan Berindeks -2016 (Faculty level Recognition based on 2015 achievements)
18. Anugerah Harta Intelek -2016 (Faculty level Recognition based on 2015 achievements)
19. Anugerah Jaringan Industri -2016 (Faculty level Recognition based on 2015 achievements)
20. Anugerah Knowledge Transfer Programme -2016 (Faculty level Recognition based on 2015 achievements)

21. Anugerah Prestasi Cemerlang eLPPT -2016 (Faculty level Recognition based on 2015 achievements)
22. Anugerah Artikel Berindeks WoS Q1 -2016 (Faculty level Recognition based on 2015 achievements)
23. Contribution to the University's Key Performance Index 2011 (award from Sustainability Research Alliance, UTM for Publication in High Impact factor Journals (University level Recognition)
24. One of the finalist for Publication in high impact factor Journals, 2009 (University level Recognition)
25. Excellent Service Award, UTM (2009)
26. Publication Award 2005- Faculty of Geoinformation Science & Engineering (Faculty level Recognition).
27. Research Awards (Excellent Achievement), 2003, UTM (University level Recognition)

#### Others

1. Appeared in "ScienceDaily, an online source for the latest research news (28 June 2018) (<https://www.sciencedaily.com/releases/2017/06/170628095834.htm>) "Remote sensing technologies key to the future of the oil palm industry"
2. Interviewed by Berita Harian (local newspaper) on 21 December 2015 (page 15) – "Pendidikan Geosains perlu Diperluas." (Geoscience Education Should be Extended)
3. Interviewed by Special Broadcasting Service (SBS-Tamil Programme) – New South Wales, Australia on achievement as an academician and researcher in Universiti Teknologi Malaysia (24 August 2013)

#### ADMINISTRATIVE EXPERIENCE

1. Assistant Dean (Quality and Strategic) Faculty of Built Environment & Surveying, Universiti Teknologi Malaysia from 1 July 2018 - 10 Feb 2022
2. Coordinator-Research and Publication, Faculty of Geoinformation & Real Estate, from 1 July 2017 - 30 June 2018
3. Postgraduate Programme Manager, Faculty of Geoinformation & Real Estate, May 2015 to August 2016
4. Research Group Leader (TropicalMap) - Nov. 2012 – June 2019
5. Course Coordinator (B.Sc. Remote Sensing)- August 2002 to July 2004
6. Course Coordinator (B.Sc. Remote Sensing)- Feb 2009 to July 2009
7. Postgraduate Course Coordinator (Remote Sensing)- July 2009 to Dec 2012
8. Academic Advisor for undergraduate students (Remote Sensing Department) from 2010-2014
9. Advisor for Postgraduate Student Society, Faculty of Geoinformation and Real Estate, UTM - June 2015-Aug 2016

#### INTERNATIONAL AND NATIONAL COMMITTEE

##### International

1. **Panelist** at Career Panel at The International Geoscience and Remote Sensing Symposium (IGARSS 2022), 19 July 2022.
2. **Publication co- chair**, The International Geoscience and Remote Sensing Symposium (IGARSS 2022), 17 – 22 July 2022.
3. **Scientific Committee member**, International Conference on Environmental Sustainability and Resource Security (IC-ENSURES 2022) - Organised by IPASA UTM, 1 Jun 2021 – 31 May 2022
4. **Chief Editor**, Journal of Advanced Geospatial Science & Technology (JAGST) since 2020
5. **Guest Editor** Special issue "Forest Land Use Cover Changes (LUCC) and Impacts on Environment in South/Southeast Asian Countries" (ISI cited) belong to Forest Journal, MDPI (Vol. 11, 2020)
6. **Member** of Pan Ocean Remote Sensing Conference (PORSEC) 2020, 13-22 Sept 2020
7. **Technical Program Committee** of IEEE Workshop On Geoscience And Remote Sensing 2019 (IWRGS2019), 5-6 Nov 2019, Malaysia Remote Sensing Agency
8. **Member** of International Conference on Environmental Sustainability and Resource Security 2019.
9. **International Advisory Committee**, 1<sup>st</sup> International Conference On Unmanned Aerial System In Geomatics 2019

10. **Chair, Local Steering Committee** to host an International Meeting entitled “Land Cover/Land Use Changes (LC/LUC) in South/Southeast Asia – SARI Meeting, 2019” with National Aeronautic & Space Administration , USA (NASA) 13-20 July in Johor, Malaysia
11. **Technical Committee member**, International Conference on Environmental Sustainability and Resource Security (IC-ENSURES 2019)- “Clean Technology for Sustainable Future”, Organised by IPASA UTM in Kuala Lumpur 20-21 Aug 2019
7. **Organising Committee Member** of 9<sup>th</sup> IGRSM International Conference and Exhibition on Geospatial & Remote Sensing (IGRSM 2018), 24-25 April 2018 at Berjaya Times Square Hotel, Kuala Lumpur
8. **Organiser of a special session** on “Geospatial technologies for sustainable development of oil palm industry” in the 9<sup>th</sup> International Conference and Exhibition on Geospatial & Remote Sensing by the Institution of Geospatial and Remote Sensing Malaysia (IGRSM) 24-25 April 2018 at Berjaya Times Squate Hotel, Kuala Lumpur
5. **Editor of a Special issue** on “Remote Sensing for Sustainable Development of the Oil Palm Industry” in the International Journal of Remote Sensing- Q2 journal with an impact factor of 1.724 (to be published in 2019 and details available on the journal website at <http://explore.tandfonline.com/cfp/est/tres-sustainable-development-of-the-oil-palm-industry>)
6. **Subject Editor** of Technical papers for the 3<sup>rd</sup> International Conference of Low Carbon Asia (ICLCA 2017)
7. **Guest Editor** of International Journal of Geoinformatics (Scopus cited) Special Issue on (Vol. 2, Issue 2, 2016)
8. Scientific Committee **Member** of the International Conference on Geomatic and Geospatial Technology, 3-5 Oct. 2016, Kuala Lumpur
9. Scientific Committee **Member**, International Conference of Low Carbon Asia and Beyond (ICLCA), 23-25 Nov. 2016
10. Scientific Committee **Member** for 6<sup>th</sup> International Graduate Conference on Engineering, Science and Humanity (IGCESH 2016), 15-17 August 2016 at UTM Johor Bahru.
11. Organising Committee **Member** of IEEE Geoscience & Remote Sensing Workshop, 8-9 Nov 2016, Universiti Putra Malaysia, Malaysia
12. Technical Committee **Member** of 8th IGRSM International Conference and Exhibition on Geospatial & Remote Sensing (IGRSM 2016), 13-14 April 2016 at Berjaya Times Square Hotel, Kuala Lumpur
13. **Co-Chair** IEEE Geoscience & Remote Sensing Society Malaysia Chapter, 16 - 17 Nov 2015, Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia
14. Scientific committee **member** International Conference of Low Carbon Asia (LocarNet), 10-13 Oct 2015, Double Tree Hotel, Johor Bahru, Malaysia
15. Organising Committee **Member** of IEEE Geoscience & Remote Sensing Workshop, 20 Nov 2014, Science & Technology Research Institute for Defense (STRIDE), Malaysia.
16. Organising Committee **Member** of IEEE Geoscience & Remote Sensing Workshop, 22 Nov 2013, Multi Media University, Melaka, Malaysia
17. Technical committe **member** of the 8th International Symposium on Digital Earth, 2013 “Special Session on transformation towards a sustainable low carbon society (International), 26-29 August 2013, Kuching, Sarawak, Malaysia
18. Committee **Member** of the International Workshop on Geoinformation Advances, 7-8 Nov 2012, Johor, Malaysia
19. Committee **member** AsiaFlux Workshop 2011 (international workshop held in UTM from 9-13 November 2011)
20. Committee **member** ‘Urban Development and Management Symposium (IUCDM 2003) 7-9 July 2003- Langkawi, Kedah
21. Committee **member**- ‘International Symposium and Exhibition on Geoinformation 2002’- 22-24Oct. 2002- Nikko Hotel Kuala Lumpur- Organised by UTM, Institutions of Surveyors, Malaysia, Universiti Putra Malaysia

and Universiti Sains Malaysia.

22. Editorial Board **Member** of the International Journal of Geoinformatics (Scopus cited) since June 2012

### **National**

1. **Member**, Malaysian Association for Aerosol and Air Quality Research (MAAQR), 1 Dec 2022 – 30 Nov 2024.
2. **Task Force member** of Penubuhan Makmal Satelit Bersama Jabatan Perhutanan Negeri Johor (JPNU) since Oct 2021
3. **Member** of the Clean Air Forum Society of Malaysia (MyCAS) since June 2018.
4. MyTreeVolution- Tree Tagging and Monitoring Expert- since Nov 2017
5. Technical Committee Member of the Intergrated Land resources management (Group 4) – Under National Geoinformation/Geomatic Research Technical Committee (Jawatankuasa Teknikal penyelidikan Geoinformasi/Geomatik Kebangsaan (JTPGGK)- member since 2014
6. National Geomatic/Geoinformatic Student Innovation Competition 2012 Sub-Committee Member (February- Dec 2012)

### **University/Faculty**

1. Perlaksana Program Research, Development, Commercialisation and Innovation (RDCI) Blue Print 2021 Fakulti Alam Bina dan Ukur (13 April 2022)
2. **Member** Strategic Priority Area 1:Net-Zero Carbon Campus, Universiti Teknologi Malaysia, 3 Aug – 28 Feb 2023.
3. **Task Force member**, Kajian Keberkesanan Pelaksanaan Laluan Kerjaya dan Penilaian Prestasi Staf Akademik (21 June 2022 – 31 Dec 2022)
4. **Task Force member**, Semakan Kurikulum Pasca Siswazah (kerja kursus) Fakulti Alam Bina dan Ukur (17 April 2022)
5. **Member**, UTM E- Journal management, Universiti Teknologi Malaysia, 1 Jan 2022 – 31 Dec 2023.
6. **Technical member**, Penyelidikan Geoinformasi/Geomatik Kebangsaan (1 Julai 2021)
7. **Task Force member**, Penyediaan TOR Penyelaras Program Akademik Fakulti Alam Bina dan Ukur (15 - 25 Aug 2021)
8. **Task Force member**, Audit of UTM Envision 2025 (University Strategic Planning) (10 March 2021-10 March 2022)
9. **Task Force member**, UTM Envision 2025 (University Strategic Planning) (1 March 2020-1 March 2021)
10. **Committee member** of Universiti Curriculum Committee- Universiti Teknologi Malaysia 2019 (1 Jun 2019 – 31 May 2021)
11. **Committee member** of Remote Sensing postgraduate programme (1 Sept 2021 – 31 Aug 2024)
12. **Member**, FABU Geoinformation Week (1 Sept 2021 – 31 Aug 2023)
13. **Consortium member** of VIVA Voice Chairperson, starting 2019
14. **Chair** of Quality Committee, Faculty of Built Environment and Surveying (1 July 2018 - 30 June 2021)
15. **Member** of Academic Committee , Faculty of Built Environment and Surveying (1 July 2018 - 30 June 2021)
16. **Member** of Publication Committee, Faculty of Built Environment and Surveying (1 July 2018 - 30 June 2021)
17. **Member** of Alumni Committee, Faculty of Built Environment and Surveying (1 July 2018 - 30 June 2021)
18. **Committee member** of Remote Sensing postgraduate programme (1 May 2017 to 30 Apr 2019)
19. **Evaluation panel** for Progress presentation Remote Sensing Students sem 1 2017/2018, FGHT UTM, 5- 6 November 2017
20. **International Referee** for Nurul Hazrina Idris 2018 Australia Endeavour Research Fellowship Application, Australian Government, 8-13 June 2017
21. **Mentor** for Academic staff monitoring course (AS 103, FGHT UTM) – (18 June – 8 November 2017)
22. **Evaluator** of Compliance Audit for Diploma course of Real estate management – (24 Jan -25 Jan 2017)
23. **Auditor** of Academic Quality, Fac. Geoinformation and Real Estate- (1 July 2017 – 31 Dec 2018)
24. **Member** of Research and Publication Coordination Committee, Fac. Geoinformation and Real Estate, UTM – (1 July 2017- 30 Jun 2018)
25. **Member** of Remote Sensing, Postgraduate Programme Committee, UTM – (1 May 2017 – 30 April 2019)
26. University Graduate Studies, Academic Committee **Member** (JAPSU), UTM - 1 January 2016 to 31 August

2016

27. **Member**, Nomination of Examiners for Masters and Doctoral students Committee, Fac. Geoinformation and Real Estate (16 June 2015-31 Aug 2016)
28. **Chairperson** of Plagiarism Panel- Faculty of Geoinformation & Real Estate (27 Oct 2015-31 Aug 2016)
29. Committee **member** of Geoinformatic Program Enhancement - Faculty of Geoinformation & Real Estate (24 Feb 2016- 31 Aug 2016)
30. Committee **member** of Masters and Doctoral students' Abstract Evaluation Panel, Faculty of Geoinformation & Real Estate (16 June 2015-31Aug 2016)
31. Academic Programme Marketing Committee **member**- Faculty of Geoinformation & Real Estate: 20 May 2009-19 May 2011
32. Quality Assurance Committee **Member**- Faculty of Geoinformation & Real Estate: (13 February 2012 to 12 February 2014)
33. **Chairperson** of the Postgraduate Committee, Remote Sensing Department- Faculty of Geoinformation & Real Estate: January 2011 to Dec 2012).
34. Committee **Member of** Postgraduate Programme at Faculty of Geoinformation and Real Estate (COPPA Committee) 28 October 2010- 27 October 2011.
35. Research Methodology course Committee **member** at the Faculty of Geoinformation and Real Estate 19 August 2011- 11 September 2012
36. Quality Assurance Document (MQA), B.Sc Remote Sensing Programme Committee **member**- Faculty of Geoinformation & Real Estate from 25 October 2010 to 24 October 2012.
37. Examination Question Panel **member**, Department of Remote Sensing- Faculty of Geoinformation & Real Estate from 1 October 2010 to 3 September 2012.
38. New Course Committee **Chairperson**- Faculty of Geoinformation & Real Estate (from 8 Feb 2010- 07 Feb 2011)

## PROFESSIONAL MEMBERSHIPS/ASSOCIATIONS

### International

1. Member, International Society for Photogrammetry and Remote Sensing (ISPRS), since Jan 2017.
2. Senior Member, Institute of Electrical and Electronics Engineers (IEEE), since April 2018, (membership no:91285948)
3. Member, IEEE Geoscience and Remote Sensing Society (IEEE GRSS), since Sept. 2011 (membership no:91285948)
4. Member International Association for Vegetation Science –since March 2012 (no: 1916368)
5. Committee Member (Chair for Student Activities) IEEE Malaysia Section Geoscience & Remote Sensing Society Chapter (IWGRS) since Nov 2012
6. Member, International Association for Ecology- since March 2012 (Member no: 201212269).
7. Member, International Association for Urban Climate (IAUC)
8. Associate member of Committee on Space Research (COSPAR)-since 2012
9. International Society for Photogrammetry and Remote Sensing (ISPRS) member since 2017

### National

1. Member, Malaysia Board of Technologist (MBOT), since 2 April 2021 (No Perakuan: GT21040214)
2. Member, Malaysia Clean Air Society (MyCAS), since July 2018 (membership no: AM-18-0034)
3. Member, Institution of Geospatial and Remote Sensing Malaysia (IGRSM) (member since 2001, Member no: M176)

### Other Memberships

1. Research Fellow for Centre for Environmental Sustainability and Water Security (IPASA), Research Institute for Sustainable Environment (RISE) – since March 2016
2. Associate Member for International Journal of Geoinformatics- since March 2012
3. Cambridge Commonwealth Society (fellow since 1998)
4. AsiaFlux member since 24 July 2009



## TEACHING ACTIVITIES

### Undergraduate

Session Semester	Subject Code	Subject	Credit Hour
2021/2022 2 2020/2021 2	SBEU 3403	Remote Sensing	3
2021/2022 2 2020/2021 2 2019/2020 2 2018/2019 1	SBEG1112	Geographic Studies	2
2018/2019 1 2017/2018 1 2014/2015 1	SGHS1312	Geographic Studies	2
2004/2005 1 2001/2002 1 2000/2001 1	SGS 2163	Introduction to Oceanography and Physical geography	3 3 3
2009/2010 2 2003/2004 1 2001/2002 1 2000/2001 1	SGS 4323	Environmental Impact Assessment	3 3 3 3
2002/2003 2 2001/2002 1 2000/2001 2	SGS 3162	Technical Writing	2 2 2
2002/2003 1 2001/2002 1	SGS 4113	Remote Sensing for Environmental Application	3 3
2003/2004 1 2002/2003 2	SGS 2213	Applied Statistics for Remote Sensing	3 3
2003/2004 2	SGS 2643	Field Data Collection	3
2011/2012 1 2010/2011 1 2009/2010 1	SGS 2513	Technology Remote Sensing 2	3 3 3
2013/2014 1 2012/2013 1 2011/2012 1 2010/2011 1 2009/2010 1	SGS 4532	Undergraduate Project 1	2 2 2 2 2
2012/2013 2 2011/2012 2 2010/2011 2 2009/2010 2	SGS 4644	Undergraduate Project 2	4 4 4 4
2013/2014 1 2012/2013 1	SGS 4573	Remote Sensing for Meteorology	3 3
2013/2014 2 2012/2013 2 2010/2011 2 2011/2012 2	SGS 4683	Remote Sensing for Environmental and Disaster Management	2 2 2 2
2004/2005 2	SGG 2433	Remote Sensing & Environmental Management	2
2004/2005 2	SGS 2622	Applied Statistics	2
2013/2014 2	SGS 4622	Policy and Legal Aspects	2
2010/2011 2	SGS 4863	Remote Sensing for Environmental Conservation and Disaster Management	2
1999/2000 1	SGS 2063	Introduction to Geoinformation System	3
2001/2002 2	SGS 3243	Remote sensing for Earth	3

1999/2000 2		Resource Management	3
1999/2000 1			3
		<b>Total Credits</b>	<b>111</b>

1. Supervision of Industrial Training –Undergraduate students (B.Sc Remote Sensing) 14-16 and 23 June 2010 in Kuala Lumpur, PutraJaya, Cyberjaya and Skudai, Malaysia
2. Supervision of Industrial Training –Undergraduate students (B.Sc Remote Sensing) 17 May 2004 in Kota Kinabalu Sabah, Malaysia
3. Supervision of Industrial Training –Undergraduate students (B.Sc Remote Sensing) - 7-13 May 2003 in Subang, Petaling Jaya and Kuala Lumpur, Malaysia

### Postgraduate

Session Semester	Subject Code	Subject	Credit Hour
2021/2022 2 2020/2021 2 2020/2021 1 2019/2020 2 2018/2019 2	MBEM1113	Research Methodology	3
2021/2022 2 2020/2021 2 2020/2021 1 2019/2020 1 2018/2019 1	PBEM1113	Research Methodology	3
2017/2018 2 2017/2018 1	MGHS1014	Remote Sensing Technology	4
2017/2018 2	MGHU 1063	Research Methodology	3
2020/2021 1 2017/2018 2	MGHS 1083	Research Methods in Remote Sensing	3
2013/2014 2 2009/2010 2	MGS 1104	Applications of Remote Sensing	4 4
2010/2011 1	MGS 1084	Research Methods in RS & GIS	4
2011/2012 1 2008/2009 2	MGS 1014	Remote Sensing Technology	4 4
2014/2015 2 2015/2016 2	MGHU 1063	Research Methodology	3 3
2015/2016 2	MGHS 1104	Applications of Remote Sensing	4
2014/2015 2	MGHG1223	Research Methods in GIS	3
2014/2015 2	MGHS1083	Research Methods in RS	3
		<b>Total</b>	<b>50</b>

### Undergraduate Project (B.Sc) Supervision

1. Nurul Asyiqin Binti Mohamad Fadzil (2022), Monitoring the Changes of Water Yield in Johor River Basin.
2. Kogulan Kumaran (2021), Mangrove Detection using Machine Learning Technique.
3. Farhan Zakariya (2019), Particulate Matter Estimation using Geographic Weighted Regression (GWR)
4. Muhammad Hafiz Bin Ab Saman (2016), Urban Tree Cover Mapping
5. Lina Farhana Binti Ab Karim (2015), Estimation of Aboveground biomass of Tropical forest using Lidar and Alos Palsar
6. Siti Fatimah Binti Mat Rahim (2014), Biomass estimation using Alos Palsar
7. Nurul Amalin Fatimah Binti Kamarul Zaman (2014), Estimation of Particulate Matter (PM10) Using

Medium Resolution Imaging Spectroradiometer (MERIS) AOD in Peninsular Malaysia

8. Nur Rabiatul Adawiyah Binti Jobli (2013), Carbon storage estimation of mangrove forest using optical and radar satellite data.
9. Siti Shazwani Binti Mohamad Akhir (2013), Support Vector Machines (SVM) for monitoring mangrove changes over west south Johor
10. Norfashareena Binti Muhamad (2012), Remote Sensing assessment of carbon sequestration by urban forest
11. Low Chen Yen (2012), Evaluations of MODIS evapotranspiration product for tropical forest in Peninsular Malaysia
12. Chiang Hui Shuang (2012), Carbon storage estimation of street trees in Johor Bahru using remote sensing techniques
13. Nurhidayah Binti Hamdan (2012), Deriving biophysical parameters of oil palm trees using airborne hyperspectral data
14. Lim Tze Chyn (2011), Mapping flood hazard zone (thesis in malay language- pemetaan kawasan rawan bencana banjir)
15. Abdul Malik Bin Mohd Sayut (2011), Remote sensing and GIS application in controlling dengue (thesis in malay language-aplikasi remote sensing dan gis dalam pengawalan wabak denggi)
16. Syarafina Binti Yaacob (2011), Mapping Solar Radiation In Peninsular Malaysia Using Aqua Modis Data
17. Hou Lee Ping (2011), Mangrove Species Classification Using Worldview-2 Data
18. Norbaizura Binti Yaso (2010)- Spatial and temporal analysis of aerosols in Peninsular Malaysia using MODIS data (thesis in malay language- Analisa corak taburan spatial dan temporal erosol di Semenanjung Malaysia dengan menggunakan data MODIS)
19. Halimatun Saadiah Binti Majid (2010), Urban mapping using IKONOS data (thesis in malay language- Pemetaan Bandar dengan menggunakan data Ikonos)
20. Yap Xen Quan (2010), Estimation of aerosol optical depth using moderate Resolution Imaging Spectroradiometer (MODIS) Level 1B data at 1 km resolution in Peninsular Malaysia.
21. Siti Rhodiyah Binti Md Safar (2010), Improving vegetation productivity model with soil moisture data: remote sensing approach (thesis in malay language-Memperbaiki model productivity tumbuhan dengan menggunakan data kelembapan tanah: pendekatan remote sensing)
22. Khairul Faizi bin Dalail (2009), Flood detection using Radarsat-1 data
23. Siti Nurliana binti Saat (2009), Monitoring clouds movement during 2006 Johor flood using satellite imageries
24. Ng Su Wai (2005), Classification of Ikonos data for mangrove mapping
25. Jason Jon Benedict (2004), The application of remote sensing and GIS for the development of fire mapping database
26. Kristofre Ian Morton (2004), An evaluation of lambertian correction, mannert correction and C correction for SPOT satellite image over Cameron Highlands
27. Norsahida binti Said (2004), Topography analysis for housing planning with remote sensing, Geography Information System and ancillary data (thesis in malay language-Analisis Topografi bagi perancangan tapak perumahan menggunakan kaedah remote sensing, sistem maklumat geografi (GIS) dan data sampingan)
28. Hadznizan Hamdan (2003), Effect and correction of BRDF for NOAA AVHRR data (thesis in malay language-Kesan dan pembetulan BRDF terhadap data NOAA AVHRR)
29. Kasturi Gunaratnam (2003), Buildings' edge extraction from Lidar data (thesis in malay language- Pengestrakan sisi bangunan daripada data Lidar)
30. Khoo Kian Hong (2003), Timber volume estimation for Pasoh Forest reserve using landsat 7 ETM+ imagery
31. Mohd Dini Hairi bin Suliman (2003), Change detection of urban development with spatial feature highlighting technique in post classification (thesis in malay language- Pengesanan perubahan pembangunan Bandar dengan teknik penonjolan fitur spatial di dalam post-classification)
32. Teh Poey Lee (2002), Generation of Tssaed Cap transformation coefficients for Multi spectral earth imaging system (MSEIS) Tiungsat-1 data (thesis in Malay language- Penjanaan Koefisien Tassaed Cap bagi data Tiungsat-1 for Multi spectral earth imaging system (MSEIS))
33. Kumar Veliayudam (2002), Estimation of G factor value for Revised Universal Soil Loss Equation-2 using NDVI technique from Landsat TM data (thesis in malay language- Anggaran nilai factor G bagi model Revised Universal Soil Loss Equation-2 dengan menggunakan teknik NDVI daripada data Landsat TM)
34. Shahrom Nasrodin (2002), Cloud discrimination technique for Landsat TM data (thesis in malay language-

Teknik pengasingan awan bagi data Landsat TM)

#### **Activities enhancing students' personalities**

1. Trained postgraduate student (Fateen Nabilla Rasli) to be an assistant trainee for International programme (NASA LCLUC Meeting and Training in Phuket), 17-19 Dec 2019
2. Trained the postgraduate students as organizers of an International Programme (NASA LCLUC Meeting and Training), 21-27 July 2019
3. Tree planting event (involving 1<sup>st</sup> year Geoinformatics students) in SJKT Kulai Besar Johor, 5 May 2019
4. Judge for Three Minute Thesis Competition 2018, Convention Hall Faculty of Built Environment UTM- 21<sup>st</sup> March 2018
5. Jury for Graduate Exhibition and Competition (GRex COM 2017), Dewan Konvensyen, B12 UTM Johor- 19 September 2017
6. Advisor - Postgraduate Student Society, Faculty of Geoinformation and Real Estate, UTM - June 2015-Aug 2016
7. Academic Advisor for year 4 students - session 2013/2014
8. Academic Advisor for year 3 students - session 2012/2013
9. Academic Advisor for year 2 students - session 2011/2012
10. Academic Advisor for year 1 students - session 2010/2011
11. Remote Sensing Camp 2- 4-11 Dec 2010 in Kuala Lumpur, Malaysia
12. Accompanying students on Global Outreach Programme to National University of Singapore 18 March 2009
13. Accompanying students on Global Outreach Programme to Thailand ( (Program Global Outreach "First Asian Institute of Technology Remote Sensing Study Tour 2009" (14-20 Dec 2009)
14. Remote sensing Camp from 7-9 August 2009 in Port Dickson, Malaysia
15. Remote sensing Camp from 20 March to 3 April 2005 in Kota Tinggi, Malaysia
16. Remote sensing Camp 2-17 May 2001 in Shah Alam and Klang Valley, Malaysia

#### **MEMORANDUM OF UNDERSTANDING/AGREEMENT INITIATED**

1. Memorandum of Agreement between WxBunka Foundation and UTM (8 June 2019 – 7 June 2020) (RM37, 231).
2. Memorandum of Understanding between Weathernews Inc (Japanese private industry) and UTM (16 Aug 2018-15 Aug 2023) (MOU)
3. Memorandum of Agreement between Institute for Medical Research (Ministry of Health, Malaysia and UTM (1 June 2018-31 May 2020).
4. Letter of Collaboration between Department of Earth System Science, Tsinghua University (China) and UTM (16 Oct 2018- 15 Oct 2023)
5. Kulim Plantations, UPM and UTM (8 September 2017 – 7 September 2022) (NDA)
6. Memorandum of Agreement between Malaysian Palm Oil Board and UTM (5 Jan 2016-4 Jan 2019) (MOA)
7. Memorandum of Understanding between Malaysian Palm Oil Board and UTM (Feb 2012-Feb 2015) MOU ended

#### **RESEARCH PROJECTS UNDERTAKEN (Overall Total of RM 11, 063, 518.00)**

##### **INTERNATIONAL (Total of RM 7,912,818)**

- |   |                |  |
|---|----------------|--|
| 1 | Position       | : Principle Investigator                                     |
|   | Research Title | : Estimating and forecasting PM2.5 concentration in Malaysia |
|   | Sponsor        | : WNI Wx BUNKA FOUNDATION, Japan                             |
|   | Value          | : RM 37,231.00   |
|   | Duration       | : 12 months (08 June 2019 until 07 June 2020)                |
|   | Status         | : Completed  |

- 2 Position : **Principle Investigator**  
 Research Title : Deforestation in north Johor: driving forces and impacts to the local community  
 Sponsor : Earthworm International Foundation (Switzerland)  
 Value : RM 60,000.00  
 Duration : 11 months (1Mar 2019 to 31 Jan 2020)  
 Status : Completed
- 3 Position : **Member**  
 Research Title : Carbon Storage and Canopy Structure Mapping of Tropical Rainforest using Unmanned Air Vehicle (Uav) and Satellite Data  
 Sponsor : Japanese Government  
 Value : RM 52,818.00  
 Duration : 2 Years (1 Jan 2018- 31 Dec 2019)  
 Status : Completed  
 Head : Dr. Alvin Lau Meng Shin
- 4 Position : **Key member**  
 Research Title : Development Scenario of Low carbons Society of Asian Region  
 Sponsor : SATREP (Science and Technology Research Partnership for Sustainable Development)  
 Value : approximately equivalent to RM 7.8 million  
 Duration : 5 years (1 June 2011 to 31 May 2016)  
 Status : Completed  
 Head : Prof. Yuzuru Matsuoka (Kyoto University, Japan)  
 Leader : Prof. Dr. Ho Chin Siong (Uni. Teknologi Malaysia)
- 5 Position : **International Collaborator**  
 Research Title : Patterns and processes of carbon and water budgets across northern Australian landscapes: From point to region  
 Sponsor : Australian Research Council  
 Value : -  
 Duration : Jan 2007- Dec 2008  
 Status : Completed  
 Head : Prof. Dr. Jason Beringer (Monash University, Australia)

**NATIONAL (Total of RM 3,150,700.00)**

- 1 Position : **Project Leader**  
 Research Title : Determining Iskandar Malaysia's Coastal Mapping and Charting Needs - Pesisir Geospatial Study  
 Sponsor : Iskandar Regional Development Authority (IRDA)  
 Value : RM15,900  
 Duration : 1 year (15 Sept 2021 – 14 Sept 2022)  
 Status : Completed
- 2 Position : **Project Leader**  
 Research Title : Analysing the impact of land cover change on Sungai Johor morphology using satellite data and deep learning techniques  
 Sponsor : UTM (Industry International Incentive Grant)  
 Value : RM15,000  
 Duration : 1 year (1 Jan 2020 – 30 June 2021)  
 Status : Completed

- 3 Position : **Project Leader**  
 Research Title : Mangrove Leaf Area Index Mapping Using Remote Sensing Data And Deep Learning Techniques  
 Sponsor : UTM (Industry International Incentive Grant)  
 Value : RM20,000  
 Duration : 1 year 6 months (1 Nov 2019 – 30 April 2021)  
 Status : Completed
- 4 Position : **Project Leader**  
 Research Title : Land Use Change and Its Impact on Sungai Johor Morphology and River Basin Ecosystem Services  
 Sponsor : UTM (UTM High Impact Research grant)  
 Value : RM123,700  
 Duration : 4 years (1 Jan 2020 – 31 Dec 2023)  
 Status : Ongoing
- 5 Position : **Project Leader**  
 Research Title : Characterising the spatio temporal variability of fine particulate matters (PM 2.5) in Greater Kuala Lumpur, Malaysia using remote sensing and advanced statistical techniques  
 Sponsor : Ministry of Education (FRGS)  
 Value : RM 104,500.00  
 Duration : 2 year (1 Sept 2019- 31 May 2022)  
 Status : Completed
- 6 Position : **Project Leader**  
 Research Title : KTP-NMG Tree Planting and continuous monitoring using :GeoTree mobile app as a way to mitigate climate change impacts  
 Sponsor : Ministry of Higher Education and UTM  
 Value : RM 5,000.00  
 Duration : 1 Feb 2019- 31 July 2019  
 Status : Completed
- 7 Position : **Project Leader**  
 Research Title : Regional mapping of oil palm biomass  
 Sponsor : Ministry of Higher Education and UTM (GUP Tier 1)  
 Value : RM 50,000.00  
 Duration : 1 July 2016- 30 June 2017  
 Status : Completed
- 8 Position : **Project Leader**  
 Research Title : Multisensor approach to oil palm sustainability monitoring using data fusion and GIS  
 Sponsor : Ministry of Higher Education (Fundamental Research Grant Scheme)  
 Value : RM 129,000.00  
 Duration : 2 Nov 2015- 1 May 2018  
 Status : Completed
- 9 Position : **Project Leader**  
 Research Title : Investigating aerosol properties and their impact on radiative forcing in Malaysia using AERONET and satellite measurements  
 Sponsor : Ministry of Education (Fundamental Research Grant Scheme)  
 Value : RM 109,000.00  
 Duration : 3 years (1 Dec 2014 to 30 Nov 2017)  
 Status : Completed

- 10 Position : **Project Leader**  
 Research Title : High resolution mapping of forest carbon stock in the Royal Belum forest  
 Sponsor : Ministry of Education & UTM (Research Group Flagship)  
 Value : RM 82,270.00  
 Duration : 2.5 years (1 July 2014 to 31 Dec 2016)  
 Status : Completed
- 11 Position : **Project Leader**  
 Research Title : Low carbon cities for sustainable development: Exploring the role of green infrastructure on reducing atmospheric carbon dioxide with geospatial technology  
 Sponsor : Ministry of Higher Education & UTM (Research University Grant Tier 1)  
 Value : RM 90,000.00  
 Duration : 2 years (1 Dec 2012 to 31 Dec 2014)  
 Status : Completed
- 12 Position : **Project Leader**  
 Research Title : Estimating CO2 emissions from deforestation of tropical forests for net carbon stock assessment: towards making REDD a reality in Malaysia  
 Sponsor : Ministry of Higher Education & UTM (GUP Tier 1)  
 Value : RM 100,000.00  
 Duration : 2 years (1 May 2012 to 30 April 2014)  
 Status : Completed
- 13 Position : **Project Leader**  
 Research Title : Satellite remote sensing of urban aerosols at high spatial resolution  
 Sponsor : Ministry of Higher Education (FRGS)  
 Value : RM 134,400.00  
 Duration : 2 years (1 April 2012 to 30 Sep 2014)  
 Status : Completed
- 14 Position : **Project Leader**  
 Research Title : Estimating productivity of tropical oil palm in Peninsular Malaysia using remote sensing techniques  
 Sponsor : Ministry of Higher Education  
 Value : RM 40,000.00 (GUP Tier 2)  
 Duration : 1.5 years (1 May 2011 to 30 April 2012)  
 Status : Completed
- 15 Position : **Project Leader**  
 Research Title : Remote sensing analysis of the spatial and temporal patterns of aerosols and their ecological implications  
 Sponsor : Ministry of Higher Education (FRGS)  
 Value : RM 30,000.00  
 Duration : 2 years (14 August 2009 to 13 August 2011)  
 Status : Completed
- 16 Position : **Project Leader**  
 Research Title : Environmental management of mangrove forest species composition using high spatial resolution remote sensing data  
 Sponsor : Research Management Centre (RMC), UTM  
 Value : RM 20,000.00  
 Duration : 15 Months (30 Sep 2003- 29 Sep 2004)  
 Status : Completed

- 17 Position : **Sub Project Leader**  
 Research Title : Development scenarios of low carbon society for Asian region  
 Sponsor : Ministry of Education Malaysia (Fundamental Research Grant Scheme)  
 Value : RM 971,000.00  
 Duration : 1 Jan 2013- 31 Dec 2016  
 Head : Prof. Dr.Ho Chin Siong (UTM)  
 Status : Completed  
 Sub-Project Title : Carbon inventory and identification of suitable plots for green space in Iskandar Malaysia  
 Sub-Project value : RM 80,000.00
- 18 Position : **Research Member**  
 Research Title : Coassaralt: optimization method to improve ocean geophysical parameters  
 Sponsor : GUP Tier 1  
 Value : RM 40,000.00  
 Duration : 3 years (1July 2017- 31 Dec 2018)  
 Status : Ongoing  
 Head : Dr. Nurul Hazrina Idris (UTM)
- 19 Position : **Research Member**  
 Research Title : Projek perintis negeri Johor: transformasi teknologi geospasial merentas komuniti  
 Sponsor : Kementerian Kemajuan Luar Bandar & Wilayah (Networking grant)  
 Value : RM 3900.00  
 Duration : 3 months (15 Feb July 2016- 11 Oct 2016)  
 Status : Completed  
 Head : Dr. Nurul Hazrina Idris (UTM)
- 20 Position : **Research Member**  
 Research Title : Projek perintis negeri Johor: transformasi teknologi geospasial merentas komuniti  
 Sponsor : GUP Tier 1  
 Value : RM 22,500.00  
 Duration : 15 months (15 Nov 2015- 14 Feb 2017)  
 Status : Completed  
 Head : Dr. Nurul Hazrina Idris (UTM)
- 21 Position : **Research Member**  
 Research Title : Regional water footprint evaluation of paddy plantation and rice production: a case study in Muda Rice Granary  
 Sponsor : Ministry of Higher Education and UTM  
 Value : RM 50,000.00  
 Duration : 1July 2016-30 June 2018  
 Status : Ongoing  
 Head : Assoc. Prof. Dr. Zainura Zainon Noor (UTM)
- 22 Position : **Research Member**  
 Research Title : Development of empirical model for razaksat-2 satellite cross calibration  
 Sponsor : Ministry of Higher Education and UTM  
 Value : RM 50,00.00  
 Duration : 1July 2016 -30 June 2017  
 Status : Completed



- Head : Dr. Alvin Lau Meng Shin
- 23 Position : **Research member**  
 Research Title : Involvement of Indigenous people as a sensor to map community assets using mobile field geospatial data collector  
 Sponsor : Ministry of Higher Education (Fundamental Research Grant Scheme)  
 Value : RM 73,000.00  
 Duration : 1 Dec 2014- 30 Nov 2016  
 Status : Completed  
 Head : Dr. Nurul Hawani Idris(UTM)
- 24 Position : **Research member**  
 Research Title : A new framework to deploy citizen as a sensor in collectively developing geo-spatial database of tree species using mobile geo-positioning technology: A case study of the Royal Belum forest  
 Sponsor : Ministry of Education & UTM (Research Group Flagship)  
 Value : RM 87,140.00  
 Duration : 1 July 2014- 30 Dec 2016  
 Status : Completed  
 Head : Dr. Nurul Hawani Idris(UTM)
- 25 Position : **Research member**  
 Research Title : Tree species identification using high spatial and hyperspectral remote sensing at Royal Belum forest  
 Sponsor : Ministry of Education & UTM (Research Group Flagship)  
 Value : RM 80,590.00  
 Duration : 1 July 2014- 30 Dec 2016  
 Status : Completed  
 Head : Dr. Alvin Lau Meng Shin (UTM)
- 26 Position : **Key Research member**  
 Research Title : Mapping of Soil Moisture in Peninsular Malaysia using SMOS Satellite Data  
 Sponsor : Ministry of Education (FRGS)  
 Value : RM 79,200.00  
 Duration : 1 July 2014- 30 June 2016  
 Status : Completed  
 Head : Dr. Alvin Lau Meng Shin (UTM)
- 27 Position : **Research Member**  
 Research Title : Remote Sensing Image Understanding Service on Cloud-computing platform  
 Sponsor : Department of Higher Education, Ministry of Education Malaysia (FRGS)  
 Value : RM 108,000.00  
 Duration : 1 Apr 2014- 31 Mar 2017  
 Status : Completed  
 Head : Associate Prof. Dr. Tuong Thuy Vu (Nottingham University Malaysia)
- 28 Position : **Research Member**  
 Research Title : Multi source remote sensing data integration for estimating tropical rain forest above ground biomass at layers and species level  
 Sponsor : Department of Higher Education, Ministry of Education Malaysia  
 Value : RM 91,000.00  
 Duration : Dec 2013- Dec 2015  
 Status : Completed

- Head : Mr.Abd. Wahid Rasib (UTM)
- 29 Position : **Research Member**  
 Research Title : Parameterization of zero plane displacement and aerodynamic roughness length over tropical region using remotely sensed data  
 Sponsor : Department of Higher Education, Ministry of Education Malaysia  
 Value : RM 91,000.00  
 Duration : Dec 2013- Dec 2015  
 Status : Completed  
 Head : Dr.Muhammad Zulkarnain Abd. Rahman (UTM)
- 30 Position : **Research Member**  
 Research Title : Study on aerosol optical properties by the synergy of multi space borne remote sensing and ground based instrumentation  
 Sponsor : Ministry of Higher Education  
 Value : RM 84,000.00  
 Duration : July 2011- June 2013  
 Status : Completed  
 Head : Dr.Mohd Nadzri Md. Reba (UTM)
- 31 Position : **Research Member**  
 Research Title : Study on satellite remote sensing data to develop environmental indicators: ambient air and coastal water quality monitoring to support high level decisions for national and international environmental protection  
 Sponsor : Ministry of Higher Education  
 Value : RM130,000.00  
 Duration : April 2011- March 2013  
 Status : Completed  
 Head : Prof. Dr. Mazlan Hashim
- 32 Position : **Research Member**  
 Research Title : Investigating radiometric properties of remote sensing analysis for forest health mapping  
 Sponsor : Ministry of Higher Education  
 Value : RM30,000.00  
 Duration : 1 August 2009-31 July 2011  
 Status : Completed  
 Head : Dr. Alvin Lau Meng Shin (UTM)
- 33 Position : **Research Member**  
 Research Title : Investigating Spatial and Spectral Response in relation to Vegetation Species Mapping  
 Sponsor : Ministry of Higher Education  
 Value : RM81,000.00  
 Duration : July 2011- June 2013  
 Status : Completed  
 Head : Dr. Alvin Lau Meng Shin (UTM)
- 34 Position : **Research Member**  
 Research Title : Building of spectral library as 'bio-fingerprint' of tropical rainforest  
 Sponsor : Ministry of Higher Education  
 Value : RM 40,000.00  
 Duration : April 2011- September 2012  
 Status : Completed  
 Head : Dr. Alvin Lau Meng Shin (UTM)

35 Position : **Research Member**  
Research Title : Development of Direct Satellite Readout for Daily Monitoring of Haze  
and Coastal Environments  
Sponsor : Ministry of Science and Technology  
Value : RM 74,100.00  
Duration : 3 years (1999 to 2002)  
Status : Completed  
Head : Prof. Dr. Mazlan Hashim (UTM)

## INTELLECTUAL PROPERTY (Copyrights)

1. Machine Learning Model for upscaling PM2.5 Concentrations across Malaysia, by **Kasturi Devi Kanniah** and Nurul Amalin Fatihah Kamarul Zaman, Dec 2021 (LY2021J06639)
2. Nature based solution for removing air pollution in cities, by **Kasturi Devi Kanniah** and Nurul Amalin Fatihah binti Kamarul Zaman, June 2019 (LY2019002141).
3. "Conceive design implement operate" framework for Geographic Information System Survey Camp© All Rights Reserved by Universiti Teknologi Malaysia – by Nurul Hawani Idris et al– December 2017 (UTM.J.14.01/27.13/1JLD136 (72))
4. Quantifying Green Cover Change for Sustainable Urban Planning in Kuala Lumpur © All Rights Reserved by Universiti Teknologi Malaysia – by **Kasturi Devi Kanniah** – December 2018 (UTM.J.14.01/27.13/1JLD130(86))
5. Selection of urban tree species for urban parks and roadside in Iskandar Malaysia- by **Kasturi Devi Kanniah** and Rohayu Abdullah- December 2016, IP/CR/2016/2035
6. Estimating Particulate Matter using Satellite Based Aerosol Optical Depth and Meteorological Variables in Malaysia © All Rights Reserved by Universiti Teknologi Malaysia – by **Kasturi Devi Kanniah** and Nurul Amalin Fatihah binti Kamarul Zaman – December 2016 (UTM.J.14.01/27.13/1JLD113(82))
7. Development of Allometric Equations for Estimating Oil palm Biomass in South Sulawesi, Indonesia © All Right Reserved by Universiti Teknologi Malaysia- by **Kasturi Devi Kanniah** and Putri Ida Sunaryathy – November 2015 (UTM.J.14.01/27.13/1JLD99(48))
8. High Resolution Mapping of Forest Carbon Stocks in the Royal Belum Forest, © All Right Reserved by Universiti Teknologi Malaysia- by **Kasturi Devi Kanniah**, Tan Kian Pang, Alvin Lau Meng Shin and Nurul Hawani Idris – November 2015 (UTM.J.14.01/27.13/1JLD99(46))
9. A design of in-situ soil data collection network for Hydrological Modelling and Remote Sensing Products Validation in Malaysia - © All Right Reserved by Universiti Teknologi Malaysia – by **Kasturi Devi Kanniah** and Kang Chuen Siang – December 2015 (UTM.J.14.01/27.13/1JLD101(98))
10. GeoTreeS: Aplikasi mudah alih dan 20system berasaskan web untuk pengumpulan data berkaitan pokok - © All Right Reserved by Universiti Teknologi Malaysia – by Nurul Hawani Idris, **Kasturi Devi Kanniah**, Mohamad Jahidi Osman, Mohd Farid Fauzi – 2015 (UTM.J.14.01/27.13/1 JLD94(20))
11. An Improved L-MEB Model for SMOS Soil Moisture Retrieval in Malaysia -© All Right Reserved by Universiti Teknologi Malaysia – by **Kasturi Devi Kanniah** and Kang Chuen Siang – December 2014 (UTM.J.14.01/27.13/1JLD 81(17))
12. A Modified Light Use Efficiency Model To Estimate Oil Palm Productivity© All Rights Reserved by Universiti Teknologi Malaysia- by **Kasturi Devi Kanniah**, Tan Kian Pang and Alvin Lau Meng Shin – Oct 2012 (UTM.J.01.12/27.13/1JLD33(17))

## CONSULTANCY INTERNATIONAL & NATIONAL (Total of RM 4,702,734.99)

### INTERNATIONAL

- |   |          |   |
|---|----------|---|
| 1 | Title    | : "Land use and land cover reviewer for "Roundtable Sustainable on Palm Oil (RSPO)" VOT 995 |
|   | Period   | : From 1 Oct 2015 – now (Feb 2023)  |
|   | Sponsor  | : Roundtable Sustainable on Palm Oil (RSPO)   |
|   | Position | : <b>Technical Consultant (Head)</b>  |
|   | Value    | : RM 210,934.50 (until May 2020)  |
|   |          | :   |

### NATIONAL

- |   |          |   |
|---|----------|---|
| 2 | Title    | : Indeks Prestasi Alam Sekitar Malaysia (My EPI 2022) |
|   | Period   | : 15 July 2021 – 14 July 2022                         |
|   | Sponsor  | : Kementerian Alam Sekitar dan Air (KASA)             |
|   | Position | : Member  |
|   | Value    | : RM150,000   |
|   | Status   | : Ongoing   |

- 3 Title : Kuala Lumpur Low Carbon Society Blueprint 2030 (KL LCSBP 2030)  
VOT 1020  
Period : From 3 May 2016 – 31 Mac 2018  
Sponsor : Kuala Lumpur City Hall  
Position : Technical Consultant (Key consultant for Green and Blue Network)  
Value : RM 1,997,898.00  
Status : Completed
- 4 Title : “Malaysia Environmental Performance Index (EPI)”  
Period : From 1 May 2014 to 31 Dec 2015  
Sponsor : Ministry of Natural Resources and Environment  
Position : Technical Consultant (Key member for green space sector)  
Value : RM 299,840.00  
Status : Completed
- 5 Title : The use of Remote Sensing and GIS Data and Technique to Derive/Estimate Atmospheric Parameters’  
Period : 21-22 April 2016  
Sponsor : Universiti Putra Malaysia  
Position : Head  
Value : RM 7000.00  
Status : Completed
- 6 Title : Technical Consultant in World Express Mapping Sdn Bhd  
Period : From 1 November 2013 and ending on 31 October 2014  
Sponsor : World Express Mapping Sdn Bhd  
Position : Technical Consultant  
Value : -  
Status : Completed
- 7 Title : Satellite Image Atlas of Malaysia  
Period : From Nov 2003 to April 2005 (project period 2003-2006)  
Sponsor : Malaysia Remote Sensing Centre  
Position : Member  
Value : RM 2,336,602.65  
Status : Completed

## POSTGRADUATE STUDENT SUPERVISION

### Post-Doctoral/Research fellow

No	Year	Name	Status	Title	Role of Supervision
1	1 July 2020-31 Dec 2020	Assoc. Prof. Dr. Le Yu	Research fellow- <b>Completed</b>	Earth Observation and Sustainable Oil Palm Plantation	Main supervisor
2	1 July 2020-30 June 2022	Dr. Kang Chuen Siang	<b>Completed</b>	Land Use Change and Its Impact on Sungai Johor Morphology and River Basin Ecosystem Services	Main Supervisor
3	1 June 2018 – 31 Oct 2018 and 1 May	Dr Nurul Hazrina binti Idris	<b>Completed</b>	Development of processing method to improve ocean geophysical parameters	Supervisor

	2019-31 May 2019			from ESA SAR altimetry over coastal ocean	
4	1 September 2014 – 31 August 2015	Tan Kian Pang (PD133)	<b>Completed</b>	High resolution mapping of forest carbon stock in the Royal Belum forest	Main Supervisor

#### Ph.D

No	Year	Name	Status	Title	Role of Supervision
1	12 July 2010 - 11 Jun 2014	Tan Kian Pang (PG103030)	<b>Graduated</b>	Estimating primary productivity of oil palm in Peninsular Malaysia using remote sensing and ancillary data	Main Supervisor
2	14 April 2010- 9 April 2014	Hamed Adab (PG 093110)	<b>Graduated</b>	Remote Sensing based thermophysical approach for detecting forest pre-ignition in Iran	Main Supervisor
3	21 Oct 2010- 17 Oct 2016	Putri Ida Sunaryathy (PG103065)	<b>Graduated</b>	Estimating aboveground biomass of oil palm trees in Sulawesi, Indonesia using using Synthetic Aperture Radar data	Main Supervisor
4	29 Oct 2010- 21 November 2016	Afsaneh (PG103061)	<b>Graduated</b>	Impact of Land Use and Land Cover Change on Land Surface Temperature in Iskandar Malaysia using Remote Sensing Technique	Main Supervisor
5	6 Sept 2011- Oct 2017	Kang Chuen Siang (PG113019)	<b>Graduated</b>	Validation and Calibration of Soil Moisture using Soil Moisture and Ocean Salinity Satellite Data in Malaysia	Main Supervisor
6	Since July 2016	Mohd Hilmi P.Ramlee	<b>Graduated</b>	Anggaran Hasil Air Tadahan Sungai Kelantan Dengan Menggunakan Teknik Penderiaan Jauh	Co- Supervisor
7	Since 18 Jan 2018 -	Hazrat Bilal (P85976) Universiti Kebangsaan Malaysia (UKM)	<b>Graduated</b>	Spatiotemporal assessment of snow cover dynamics in the Upper Indus Basin Pakistan and it's Consequences on the Future Hydropower Generation Capacity	Co-supervisor
8	Since 4 Jan 2018	Yuqi Cheng Tsinghua University, Beijing, China	<b>Graduated</b>	Oil palm mapping in Malaysia using Alos Palsar data	Co-supervisor

9	Since 10 March 2015	Fateen Nabilla Binti Rasli (PGH 143028)	<b>Graduated</b>	Mapping of Green Corridors in Kuala Lumpur using Geospatial Technology	Main supervisor
10	Since 10 March 2015	Nazarin Ezzaty Binti Mohd Najib (PGH 143027)	<b>Graduated</b>	Mapping and Modelling of Oil Palm Aboveground Biomass using Optical and Radar Remote Sensing Data	Main Supervisor
11	Since 29 August 2013	Noor Salehan Binti Mohammad Sabli (PK133003)	<b>Graduated</b>	Quantification Water Consumption and Environmental Impact for Crude Palm Oil Production using Hybrid Water Footprint Approach	Co-supervisor
12	Since May 2017	Nurul Amalin Fatihah Binti Kamarul Zaman (PGH 163024)	Passed	Characterising The Spatiotemporal Variability Of Fine Particulate Matter Pm25 In Malaysia	Main Supervisor
13	Since 2019	Norfariza Binti Zainal (UTM)	Ongoing	Optimizing Ocean Geophysical Parameters From SAR Altimetry Data For Coastal Ocean.	Co-supervisor
14	Since 2021	On Chai Lee	Ongoing	Ecological Landscape For The Optimization of Environmental Performance In Sustainable Urban Development	Main Supervisor
15	Since 2022	Nurul Ain Binti Najwa Zulkifle	Ongoing	Shoreline Changes and Coastal Erosion along Malaysia Coastal by Remote Sensing	Co-supervisor

### Master by Research

No	Year	Name	Status	Title	Role of Supervision
1	6 Sept 2011-13 Nov 2014	Lim Hui Qi (MG 113011)	<b>Graduated</b>	Investigating aerosol properties in Peninsular Malaysia via the synergy of satellite remote sensing and groundbased measurements	Main Supervisor
2	2 Sept 2014-21 Aug 2016	Nurul Amalin Fatihah Binti Kamarul Zaman (MGH 143026)	<b>Graduated</b>	Modeling Particulate Matters (PM10) In Malaysia Using Aerosol Optical Depth and Meteorological Parameters	Main Supervisor
3	Since 2 Sept	Rohayu Binti	<b>Graduated</b>	Tree Species for Urban	Co-

	2014	Abdullah (MBE143006)		Parks and Roadsides Based on Carbon Storage Sequestration and Maintenance in Iskandar Malaysia	supervisor
4	28 Sept 2014 - 2020	Chong Khai Loong (MGH 143039)	<b>Graduated</b>	Oil Palm Tree Detection and Delineation using Local Maxima Template Matching and Seeded Region Growing	Main Supervisor
5	Since 2020 -	Fara Aiza Binti Md Sanin	Ongoing	Development of Openfire Hazard Model using Machine Learning and Geospatial Information	Co- supervisor
6	Since 2022	Nurul Asyiqin Binti Mohamad Fadzil	Ongoing		Main Supervisor

### Master by Taught Course

No	Year	Name	Status	Title	Role of Supervision
1	2 July 2009-18 Feb 2011	Ghulam Fadel Ahmed Al- Hamed (MG 091018)	<b>Graduated</b>	Patterns and transport pathways of aerosols in Peninsular Malaysia using MODIS aerosol data	Main Supervisor
2	28 Aug 2013-18 Feb 2015	Fateen Nabilla Binti Rasli (MG 131006)	<b>Graduated</b>	Identification of Green Corridors in Kuala Lumpur using Geospatial Technology	Main Supervisor
3	28 Aug 2013-18 Feb 2015	Nazarin Ezzaty Binti Mohd Najib (MG 131007)	<b>Graduated</b>	Decadal changes in forest cover in Malaysia using Landsat satellite data	Main Supervisor
4	2 Feb 2016-20 Sep 2017	Camalia Binti Saini	<b>Graduated</b>	Oil palm age classification in ladang Tereh Selatan, Johor, Malaysia using remote sensing technique	Co- supervisor
5	Since 2019 – Feb 2020	M. Sulaiman Fayez Hotaki	<b>Graduated</b>	Impact of Dam Construction on Land Cover and Crops Pattern in Hari Rud Basin, Afganistan	Main Supervisor

### POSTGRADUATE EXAMINATION/VIVA

#### PhD External Examiner

1. Abolfazl Abdollahi, University of Technology Sydney (April 2022) - Automatic updating and verification of road maps using high-resolution remote sensing images based on advanced machine learning methods
2. Karen Thivya Lourdes, University of Nottingham Malaysia (May 2022)- Mapping and Valuing Urban Ecosystem Services in the Greater Kuala Lumpur Metropolitan City
3. Nam Thang Ha, University of Waikato (May 2021) – Remote Sensing of Dynamics and Aboveground Biomass of Seagrass in Tauranga Harbor (Bay of Plenty), New Zealand
4. M.Kamalanandhini, SRM Institute of Science and Technology (Aug 2021) – Assessment of Drought Severity Condition using Integrated Approach in Chengalpattu District, Tamil Nadu, India
5. K. V. G. Rajkumar, Vellore Institute of Technology, India (Jan 2019) – Carbon Sequestration using Remote Sensing and GIS- A case Study of Visakhapatnam District, Andhra Pradesh
6. Chittana Phompila, The University of Adelaide, Australia (March, 2016) – Mapping and Monitoring Forest Cover Changes in Lao PDR using Remote Sensing



7. Nishadh K A, Bharathiar University, Coimbatore, India (Dec 2016) – Particulate Air Pollution Data for Coimbatore, India: real time Monitoring and Modelling with data interoperability measures
8. Makama Ezekiel Kaura, Universiti Sains Malaysia (Viva Voce on 15 Aug 2018) – Algoritma Baru untuk Menganggarkan Air Precipitable Menggunakan Data Satelit ATOVS dan EUMETSAT daripada NOAA di Semenanjung Malaysia

#### **PhD Internal Examiner**

1. Nordaliza Binti Zulkifli (Mar 2022), Kolaborasi Bagi Agensi Pentadbiran Tanah Dalam Menyokong Perkongsian Data Geospatial Bersepadu Di Malaysia
2. Tam Tzey Huey (Feb 2022)- Geospatial Approach for Flood Vulnerability Assessment In Kelantan River Basin, Malaysia
3. Maslina Mohd Natar (Feb, 2021) – Modeling of Greenhouse Gases over Land use Conversion using Remote Sensing Data in Malaysia
4. Wan Zurie Wan Ismail (May 2020) – Carbon Sequestration Performance Improvement at Intensive Green Roofs
5. Dalhatu Aliyu Sani (Jan 2020) – Modeling of Seagrass Blue Carbon Stock in Seagrass- Mangrove Habitats using Satellite-based Techniques
6. Hasan Zabihi (October 2016)
7. Nurun Nadhirah binti Md Isa (10 February 2016)

#### **Masters External Examiner**

1. Daniel Stephen Platt, University of Nottingham (July, 2021) – Using Historical Disturbance Identified with LandTrend for Land Cover Mapping
2. Erik Yiew Tuang Ngoi, Curtin University (Sept, 2021) - Digitizing the Map of Agricultural Plantation Areas in a Southern Region of Miri for Sustainable Agricultural Land Use Planning
3. Khairil Izwan Ahmad Arshad (GS35834), Universiti Putra Malaysia ( April, 2016) – Development of LiDAR Database Management System using Open Source Software
4. Noryusdiana Mohammad Yusoff (GS 40842), Universiti Putra Malaysia ( Sep, 2016) – Monitoring of Agricultural Land Abandonment from Space

#### **Masters Internal Examiner**

1. Fatin Nabihah Syahirah Binti Ridzuan (Jan 2022)- Development of satellite derived Chlorophyll-a and nutrients by machine learning models
2. Noor Emi Fadzilah Bt Ramlan (Jan 2020) – A Statistical Spatial Downscaling of Global Precipitation Measurement Rainfall Data with Application of Vegetation Index and Digital Elevation Model using Global Weight Regression Method over Kelantan Area
3. Jacquelyne Paska (2 March 2020) – Evaluation of Satellite Precipitation Products in Extreme Rainfall Events over Peninsular Malaysia
4. Nur Atiqah Ainaa (25 January 2015)
5. Malik Rashid Abbas (16 March 2014)
6. Yeap Eng Choon (30 April 2014)

#### **Chairperson PhD Viva Voce**

1. Chairperson PhD. Viva-voce (20 Dec 2021) UTM Student (Toh Ka Bean-Faculty of Built Environment and Surveying).
2. Chairperson PhD. Viva-voce (19 May 2021) UTM Student (Jamilia Marsin-Faculty of Geoinformation & Real Estate).
3. Chairperson PhD. Viva-voce (11 July 2011) UTM Student (Babolola Ayo-Faculty of Geoinformation & Real Estate).
4. Assistant to chairperson PhD Viva Voce (16/03/2014) UTM student (Javad Mirnazari)
5. Assistant to chairperson PhD Viva Voce (04/12/2013) UTM staff (Abd. Wahid Rasib)

### **Chairperson Master Viva Voce**

1. Chairperson M.Phil Viva-Voce (10 March 2019) (Syaza Faiqah - Faculty of Built Env & Surveying)
2. Chairperson M.Phil Viva-Voce (10 Feb 2019) (Lee Le Ming - Faculty of Built Env & Surveying)
3. Chairperson M.Phil Viva-Voce (27 Jan 2019) (Mohd Khairul Bin Abdullah Halim - Faculty of Built Env & Surveying)
4. Chairperson M.Phil Viva-Voce (6 Jan 2019) (Mohd Syafiq Md Sukor - Faculty of Built Env & Surveying)
5. Chairperson M.Phil Viva-Voce (14 May 2018) (Muhammad Afiq Bin Aziz- Faculty of Geoinformation and Real Estate)
6. Chairperson M.Phil Viva-Voce (6 May 2018) (Nor Fatin Hanani Binti Jumaat- Faculty of Geoinformation and Real Estate)
7. Chairperson MSc. Viva-voce (16 May 2016) UTM Student (Jespal Singh Gill A/L Autar Singh- Faculty of Geoinformation and Real Estate)
8. Chairperson MSc. Viva-voce (05 April 2016) UTM Student (Adzlan Bin Ainee- Faculty of Geoinformation and Real Estate)
9. Chairperson MSc. Viva-voce (14 February 2016) UTM Student (Siti Zainun Mohamad- Faculty of Geoinformation and Real Estate)
10. Chairperson Msc.Viva-voce (31 December 2015) UTM Student ('Asim 'Abdullah bi Ainullofhi - Faculty of Geoinformation and Real Estate)
11. Chairperson MSc. Viva-voce (24 June 2015) UTM Student (Wan Muhammad Aizzat - Faculty of Geoinformation and Real Estate)
12. Chairperson Msc. Viva-voce (23 November 2015) UTM Student (Nurul Asikin Che Daud - Faculty of Geoinformation and Real Estate)
13. Chairperson Msc. Viva-voce (23 November 2014) UTM Student (Lee Szue Yann - Faculty of Geoinformation and Real Estate)
14. Chairperson Msc. Viva-voce (18 May 2014) UTM Student (Wan Nor Fa'aizah Wan Abdul Basir - Faculty of Geoinformation and Real Estate)
15. Chairperson Msc. Viva-voce (30 April 2014) UTM Student (Yeap Eng Choon - Faculty of Geoinformation and Real Estate)

### **M.Sc and PhD Panel-other appointments**

1. Examiner PhD Research proposal presentation (1 Oct 2022) (Wan Hazli Wan Kadir- Faculty of Built Environment and Surveying)
2. Examiner PhD Research proposal presentation (21 June 2022) (Syahirah Mohd Salleh- Faculty of Built Environment and Surveying)
3. Chairperson- PhD Research proposal presentation (20 Jan 2021) UTM student (Mohamad Jahidi bin Osman- Faculty of Built Environment and Surveying)
4. Chairperson- Conversion Master to PhD presentation (12 Aug 2021) UTM student (Lim Shi Min- Faculty of Built Environment and Surveying)
5. Chairperson- PhD Research proposal presentation (12 January 2020) UTM student (Isa Muhammad Zumo- Faculty of Built Environment and Surveying)
6. Examiner -Conversion Master to PhD (18 January 2015) UTM Student (Syarifuddin Misbari- Faculty of Geoinformation and Real Estate)
7. Examiner MSc Research proposal presentation (23 August 2013) UTM student (Malik Rashid Abbas- Faculty of Geoinformation and Real Estate)
8. Examiner PhD Research proposal presentation (23 August 2013) UTM student (Chew Wei Chuang- Faculty of Geoinformation and Real Estate)
9. Chairperson- PhD Research proposal presentation (14 November 2011) UTM student (Wani Sofia Binti Udin- Faculty of Geoinformation and Real Estate)
10. Examiner MSc. Research proposal presentation (16 August 2011) UTM student (Norsheilla Bt Johan Chuah - Faculty of Geoinformation and Real Estate)
11. Examiner M.Sc (taught course and mixed mode) (8 June 2011) UTM students (Kaveh Deilami, Maryam Adel Saharkhiz and Hamid Allahvirdiasl- Faculty of Geoinformation and Real Estate)
12. Examiner MSc. Research proposal presentation (17 May 2010) UTM student (Ahmad Thariq bin Mohd Khairudin- - Faculty of Geoinformation and Real Estate)

13. Examiner MSc. Research proposal presentation (13 May 2010) UTM student (Yeo Sek Khas - Faculty of Geoinformation and Real Estate)
14. Examiner MSc. Research proposal presentation (3 June 2010) UTM student (Nurul Nadia Binti Yahya - Faculty of Geoinformation and Real Estate)
15. Examiner PhD. Research proposal presentation (23 February 2010) UTM Fast Track student (Jaw Siow Wei- Faculty of Geoinformation and Real Estate)
16. Examiner PhD. Research proposal presentation (3 June 2010) UTM student (Mohd Idris bin Ali- Faculty of Geoinformation and Real Estate)
17. Examiner PhD. Research proposal presentation (13 May 2010) UTM student (Mohamad Hossein Mokhtari - Faculty of Geoinformation and Real Estate)

## PUBLICATIONS

### THESIS

1. **Kanniah, K.D** (2009). Environmental controls on the spatial and temporal variability of savanna productivity in the Northern Territory, Australia. PhD thesis. Monash University. Awarded in May 2009

### BOOK

1. Kasturi Devi Kanniah & Arthur Cracknell (book contract was signed with CRC Press – Taylor & Francis Group on 26 Oct 2018), Geospatial Technology for Sustainable Oil Palm Industry- Manuscript due on Jan 15, 2020.
2. Rahmalan bin Ahamad, Zulkifli bin Yusop, Abdull Rahim bin Mohd Yusoff, Azmi bin Aris, Zainura binti Zainon Noor, Mohd Shahir Shamsir bin Omar, Shamila binti Azman, Choong Weng Wai, Haslenda binti Hashim, Muhamad Askari, Irina Safitri Zen, Jafariah binti Jaafar, Zaiton binti Abdul Majid, Mohd Nor bin Said, Muhammad Hisyam Lee and **Kasturi Devi Kanniah** (2015), Environmental Performance Index For Malaysia 2014, UTM Press, ISBN 978-983-52-1031-0, pp.331.
3. Khamarrul Azahari Razak, Rozaimi Che Hasan, Khairul Hisyam Kamarudin, Habibah @ Norehan Hj. Haron, Hafizah Harun, Rudzidatul Akmam Dziauddin, **Kasturi Devi Kanniah** and Faezah Mohd Shaharom, (2015), UTM high impact research @ Royal Belum -Temenggor forest complex, Gerik Perak, A Compilation of Scientific Expedition Activities in 2013-2015, UTM Razak School of Engineering and Advanced Technology, ISBN 978-967-11814-9-2, pp 156.
4. Zaini Ujang, Mohd Azraai Kassim, Ho Chin Siong, Koichi Okabe, Ahmad Nazri Muhammad Ludin, Mohd Ismail Abd Aziz, Mohd. Hamdan Ahmad, Mohammad Rafee Majid, Ibrahim Ngah, **Kasturi Devi Kanniah**, Chau Loon Wai, Teh Bor Tsong, Azilah Mohamed Akil, Muhamad Azahar Zikri Zahari, Abdul Rahim Ramli, Anis Syahira Zulkifli, Kang Chuen Siang, Malik Tassaduq Abbas, Yasmin Sofia Hussain, Fatin Aliah Phang Abdullah, Wong Wai Yoke, Haslenda Hashim, Ho Wai Shin, Siti Aktar Ishak, Zainura Zainon Noor, Lee Chew Tin, Mohd Razman Salim, Siti Nadzirah Othman, Tan Sie TingNawal Shahrudin, Mohd Rashid Mohd Yusof, Muhammad Zaly Shah Muhammad Hussein, Gobi Krishna Sinniah, Afsaneh Afzali, Nurain Mohd Sith, Yuzuru Matsuka, Prof. Dr. Takeshi Fujiwara, Dr. Junichi Fujino, Dr. Mikiko Kainuma, Ms. Reina Kawase, Kei Gomi, Janice Jeevamalar Simson, Miho Kamei, Yuri Hayashi, Maiko Suda, Shuichi Ashina, Diego Silva Herran, Siti Norbaizura Md. Rezab, Tomohito Hamada, Hiroaki Obayashi, Gakuji Kurata (2013), Low Carbon Society Blueprint for Iskandar Malaysia 2025 - Summary for Policymakers (Second Edition, Mar 2013): UTM-Low Carbon Asia Research Center, Universiti Teknologi Malaysia, Malaysia ISBN: 978-967-11889-0-3 pp.34
5. Darus Ahmad, Nik Nasruddin Mahmood, Mansor Abd. Rahaman, Iaili@Asri Nordin, Jimat Bolhassan, Mardiana Shafiee, Ku Mohd Noh Ku Ramli, Noraini Surip, Kamaruzaaman Wahid, Aidy@M.Shawal M.Muslim, Idris Saedin, Ibrahim Selamat, Mariamni Halid, Jasmi Ab Talib, Norizan Abdul Patah, Nik Mazlina Nik Mustapha, Roslina Samad, Siti Atikah Mohamed Hashim, Siti MOrni Umor, Mohamed Kamal Azidy Musa, Khor Soong Wei, Abdul Majid Wahab, Md. Nazri Safar, Achmad Qamal Siatan, Syariman Samsudin, Kasmah Hamid, Donna Patrick Apan, Mazlan Hashim, Samsudin Ahmad, Ab. Latif Ibrahim,

Sahrum Ses, Wan Hazli Wan Kadir, Abd. Wahid Rasib, Mohd Ibrahim Seeni Mohd, **Kasturi Devi Kanniah**, Azmi Hassan, Hafizal Ahmad, Faidrullah Sheikh Naimullah, Hamdan Omar, Mohd Amin Md Johari, Mohd Azahari Faidi, Norlizan Razali, Norsahida Said, Nur Aznim Mohamed Azizi and Zamzarina Ali (2008), *Satellite Image Atlas of Malaysia- an atlas of satellite imagery*, Malaysian Centre for Remote Sensing and Universiti Teknologi Malaysia ISBN 978-983-43550-1-2, pp. 254.

## EDITED BOOK

1. Kasturi Devi Kanniah (2015). *Geospatial Techniques for Tropical Resources Mapping (Edited Book)*. ISBN 978-983-52-1149-2, pp.99, UTM Press.

## BOOK CHAPTER

1. **Kanniah, K.D.**, Abdullah, R. and Siong, H.C., 2022. Potential Carbon Storage and Sequestration by Urban Trees in Malaysia. In *Urban Forestry and Arboriculture in Malaysia: An Interdisciplinary Research Perspective* (pp. 105-133). Singapore: Springer Nature Singapore.
2. **Kasturi Devi Kanniah** and Kamarul Zaman, N.A.F 2021, Remotely Sensed Particulate Matter Estimation in Malaysia during the Biomass Burning Season in Southeast Asia, In: *Biomass Burning in South and Southeast Asia* (Eds. Krishna Vadrevu, Toshimasa Ohara & Chris Justice)- CRC Press (in Press).
3. **Kasturi Devi Kanniah, 2019**, Detection of forest gaps in Royal Belum tropical forest using WorldView-2 satellite data, Chapter 7 (page 156): In: *Geospatial in Geodesy and Environmental Applications* (Eds. Zakri Tarmidi & Nurul Hazrina Idris)- UTM Press (published).
4. **Kanniah, K.D** and Beringer, J., 2017, Tropical savanna Ecosystems, *International Encyclopedia of Geography: People, the Earth, Environment, and Technology*, John Wiley & Sons, Ltd.
5. **Kasturi Devi Kanniah** and Tan Kian Pang, 2015. *Remote Sensing for Mapping Biophysical Parameters of Oil Palm Trees. Chapter 2*: In *Geospatial Techniques for Geospatial Mapping* (Eds.Kasturi Devi Kanniah) UTM press, pp 25-44.ISBN 978-983-52-1149-2
6. **Kanniah, Kasturi Devi** and Teh, P L 2003. *Generation of Tasseled Cap Transformation Coefficients for the Use of TiungSAT-1 Multi Spectral Earth Imaging System (MSEIS) Data. Chapter 8*: In: *TiungSAT-1: Data Applications*. Astronautic Technology (M) Sdn. Bhd., Bukit Jalil, Kuala Lumpur, pp. 61-80. ISBN 983-41363-0-7.

## REFEREED JOURNALS

(H index: 22, Total Citations: 1482, CIF: ~168 - Updated June 2021)

## ISI Cited

1. Mazeli, M. I., Pahrol, M. A., Shakor, A. S. A. A., **Kanniah, K. D.**, & Omar, M. A., 2023. Cardiovascular, respiratory and all-cause (natural) health endpoint estimation using a spatial approach in Malaysia. *Science of The Total Environment*, 874, 162130. **Impact factor: 10.754 (Q1)**
2. Kang, C.S. and Kanniah, K.D., 2022. Land use and land cover change and its impact on river morphology in Johor River Basin, Malaysia. *Journal of Hydrology: Regional Studies*, 41, p.101072. **Impact factor: 5.023 (Q1)**
3. Yu, L., Cao, Y., Cheng, Y., Zhao, Q., Xu, Y., Kanniah, K., Lu, H., Yang, R. and Gong, P., 2022. A study of the serious conflicts between oil palm expansion and biodiversity conservation using high-resolution remote sensing. *Remote Sensing Letters*, pp.1-15. **Impact factor: 2.583 (Q3)**
4. Wouter Dorigo, Irene Himmelbauer, Daniel Aberer, Lukas Schremmer, Ivana Petrakovic, Luca Zappa, Wolfgang Preimesberger, Angelika Xaver, Frank Annor, Jonas Ardö, Dennis Baldocchi, Günter Blöschl, Heye Bogena, Luca Brocca, Jean-Christophe Calvet, Julio J. Camarero, Giorgio Capello, Minha Choi, Michael C. Cosh, Jerome Demarty, Nick van de Giesen, Istvan Hajdu, Karsten H. Jensen, **Kasturi Devi Kanniah**, Ileen de Kat, Gottfried Kirchengast, Pankaj Kumar Rai, Jenni Kyrouac, Kristine Larson, Suxia Liu, Alexander Loew, Mahta Moghaddam, José Martínez Fernández, Cristian Mattar Bader, Renato Morbidelli, Jan P. Musial, Elise Osenga, Michael A. Palecki, Isabella Pfeil, Jarrett Powers, Jaakko Ikonen,

- Alan Robock, Christoph Rüdiger, Udo Rummel, Michael Strobel, Zhongbo Su, Ryan Sullivan, Torbern Tagesson, Mariette Vreugdenhil, Jeffrey Walker, Jean Pierre Wigneron, Mel Woods, Kun Yang, Xiang Zhang, Marek Zreda, Stephan Dietrich, Alexander Gruber, Peter van Oevelen, Wolfgang Wagner, Klaus Scipal, Matthias Drusch, and Roberto Sabia, 2021, The International Soil Moisture Network: serving Earth system science for over a decade, *Hydrology and earth System Sciences Discussions*, pp.1-88, **Impact factor: 5.240 (Q1)**
5. Nurul Amalin Fatimah Kamarul Zaman, **Kasturi Devi Kanniah**, Dimitris Kaskaotis, Mohd Talib Latif, 2021, Evaluation of Machine Learning Models for Estimating PM2.5 Concentrations across Malaysia, *Applied Sciences*, 11, 7326 **Impact factor: 2.679 (Q2)**
  6. Xu, Y, Ciais P, Yu, L, Li, W., Chen, X., Zhang, H., Yue, C., **Kanniah, K.D.**, Cracknell, A.P., and, Gong, P., 2021, Oil palm modelling in the global land-surface model ORCHIDEE-MICT, 2021, *Geoscientific Model Development*, 14, 4573–4592 **Impact factor: 5.24 (Q1)**
  7. **Kasturi Devi Kanniah**, Chuen Siang Kang, Sahadev Sharma and A. Aldrie Amir, 2021, Remote Sensing to Study Mangrove Fragmentation and Its Impacts on Leaf Area Index and Gross Primary Productivity in the South of Peninsular Malaysia, *Remote Sensing*, 13, 1427. <https://doi.org/10.3390/rs13081427>. **Impact factor: 4.509 (Q1)**
  8. Hamed Adab, **Kasturi Devi Kanniah**, and Karim Solaimani, 2021, Remote sensing based operational modeling of fuel ignitability of temperate deciduous broadleaved forests in Iran, *Natural Hazards*, accepted for publication on 24 Feb 2021. **Impact factor: 2.427 (Q2)**
  9. Zheng, J., Fu, H., Li, W., Wu, W., Yu, L., Yuan, S., Tao, W.Y.W., Pang, T.K. and **Kanniah, K.D.**, 2021. Growing status observation for oil palm trees using Unmanned Aerial Vehicle (UAV) images. *ISPRS Journal of Photogrammetry and Remote Sensing*, 173, pp.95-121. **Impact factor: 7.319 (Q1)**
  10. Najib, M., Ezzaty, N., **Kanniah, K. D.**, Cracknell, A. P., & Yu, L. (2020). Synergy of Active and Passive Remote Sensing Data for Effective Mapping of Oil Palm Plantation in Malaysia. *Forests*, 11(8), 858. **Impact factor: 2.221 (Q1)**
  11. **Kanniah, K. D.**, Zaman, N. A. F. K., Kaskaoutis, D. G., & Latif, M. T. (2020). COVID-19's impact on the atmospheric environment in the Southeast Asia region. *Science of The Total Environment*, 139658. **Impact factor: 6.551 (Q1)**
  12. **Kasturi Devi Kanniah**, Arthur P. Cracknell & Le Yu (2019), Preface, *International Journal of Remote Sensing*, 40:19, 7287-7296, DOI: 10.1080/01431161.2019.1613069, **Impact factor: 1.724 (Q2)**
  13. Bilal, H., Siwar, C., Mohktar, M., and **Kanniah, K.D.**, 2019, Recent snow cover variation and distribution in the Upper Indus Basin of Gilgit Baltistan, Hindukush Karakoram Himalaya, *Journal of Mountain Science*, 16(2): 296-308, <https://doi.org/10.1007/s11629-018-5201-3>, **Impact factor 1.135 (Q4)**.
  14. Cheng, Y., Yu, L., Xu, X., Lu, H., Cracknell, A.P., **Kanniah, K.** and Gong, P., 2019, Mapping oil palm plantation expansion in Malaysia over the past decade (2007–2016) using ALOS-1/2 PALSAR-1/2 data article accepted for publication (25 Jan 2019), **Impact factor: 1.724 (Q2)**
  15. Kang Chuen Siang, **Kasturi Devi Kanniah**, Yann Kerr, 2019, Calibration of SMOS Soil Moisture Retrieval Algorithm: A Case of Tropical Site in Malaysia, *IEEE Transactions on Geoscience and Remote Sensing*, Volume: 57, [Issue: 6](https://doi.org/10.1109/TGRS.2018.2888535), 3827 – 3839, 10.1109/TGRS.2018.2888535) **Impact factor: 4.662 (Q1)**.
  16. Nazarin Ezzaty Mohd Najib and **Kasturi Devi Kanniah**, 2019, Optical and radar remote sensing data for forest cover mapping in Peninsular Malaysia, *Singapore Journal of Tropical Geography*, 40 (2019) 272–290, **Impact factor: 1.043 (Q3)**.
  17. Hamsa, C.S., **Kanniah, K.D.**, Muharam, F.M., Idris, N.H., Abdullah, Z. and Mohamed, L., 2019. Textural measures for estimating oil palm age. *International Journal of Remote Sensing*, published online- <https://doi.org/10.1080/01431161.2018.1530813>, **Impact factor: 1.724 (Q2)**
  18. Cheng, Y., Yu, L., Xu, Y., Liu, X., Lu, H., Cracknell, A.P., **Kanniah, K.** and Gong, P., 2018. Towards global oil palm plantation mapping using remote-sensing data. *International Journal of Remote Sensing*, 39:18, 5891-5906, DOI: [10.1080/01431161.2018.1492182](https://doi.org/10.1080/01431161.2018.1492182) - **Impact factor: 1.724 (Q2)**
  19. Yuqi Cheng, Le Yu, Yidi Xu, Hui Lu, Arthur P. Cracknell, **Kasturi Kanniah** & Peng Gong, 2018, Mapping oil palm extent in Malaysia using ALOS-2 PALSAR-2 data, *International Journal of Remote Sensing*, Vol. 39, 432-452, <http://dx.doi.org/10.1080/01431161.2017.1387309>, **Impact factor: 1.652 (Q2)**
  20. **Kasturi Devi Kanniah**, Kian Pang Tan Arthur Philip Cracknell, Alfredo R. Huete, Nurul Hawani Idris, Alvin Lau Meng Shin, Muhammad Zulkarnain Abd. Rahman, Abd Wahid Rasib and Anuar Ahmad, 2018, Assessment of biophysical properties of Royal Belum tropical forest, Malaysia, *Singapore Journal of Tropical Geography*, Vol.39, 90-106, doi:10.1111/sjtg.12215, **Impact factor: 1.092 (Q3)**.
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21. **Kasturi Devi Kanniah**, Mazlan Hashim and Mohd Ibrahim Seeni Mohd, "Remote sensing: an

environmentally friendly tool to enhance environmental education at the Department of Remote Sensing”, Universiti Teknologi Malaysia, 22<sup>nd</sup> *Asian Conference on Remote Sensing Proceeding*, Singapore, 5-9 Nov 2001.

22. Mazlan Hashim, **Kasturi Devi Kanniah**, Abdul Wahid Rasib and Lim Chee Ming, “Mapping and measuring the troposphere pollutants originated from the 1997 forest fire in South East Asia, 2000”, 21<sup>st</sup> *Asian Conference on Remote Sensing Proceeding*, Vol. 1, pg 1006-1011, Taiwan, 4-8 Dec, 2000.
23. D.John Prabakaran and **Kasturi Devi Kanniah**, “Volcano Hazard Management using Digital Elevation Model”, 21<sup>st</sup> *Asian Conference on Remote Sensing Proceeding*, Vol. 1, pg 1148-1154, Taiwan, 4-8 Dec, 2000.
24. **Kasturi Devi Kanniah**, Mazlan Hashim and Mohd Ibrahim Seenii Mohd, “A systematic Approach in Remote Sensing Education and Training at Universiti Teknologi Malaysia”, 21<sup>st</sup> *Asian Conference on Remote Sensing Proceeding*, Vol. 1, pg 1036-1041, Taiwan, 4-8 Dec, 2000.

### Other Proceedings

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4. **Kasturi Devi Kanniah**, Jason Beringer, and Lindsay Hutley, 2011, “Modelling Gross Primary Productivity of Savanna Vegetation in northern Australia using MODIS data”, 34<sup>th</sup> *International Symposium on Remote Sensing of Environment*, Sydney Convention and Exhibition Centre, 10-15 April 2011.
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9. **Kasturi Devi Kanniah**, Nigel Tapper, Jason Beringer, Chuck Long, Lindsay Hutley and Xuan Zhu, “Preliminary investigations of the role of smoke aerosols on carbon uptake of a northern Australian tropical savanna”, *Sixteenth ARM Science Team Meeting Proceedings*, Albuquerque, New Mexico, March 27 - 31, 2006, extended abstract available online [http://www.arm.gov/publications/proceedings/conf16/extended\\_abs/kanniah\\_kd.pdf](http://www.arm.gov/publications/proceedings/conf16/extended_abs/kanniah_kd.pdf)
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### **Resource person for short Course or Training**

1. Instructor- The Tutorial Capacity Building in Conjunction with 15th Pan Ocean Remote Sensing Conference (PORSEC 2022), 3 – 6 Dec 2022.
2. Facilitator -15th Pan Ocean Remote Sensing Conference 2020 in Malaysia (PORSEC 2020)-Massive Open Online Course on Ocean Remote Sensing for Resilient Climate, Dec 2020 to April 2021
3. Guest Lecturer To Deliver A One-Day Hands-On Workshop In UniKL, 6 Oct 2021
4. Course Instructor - Ocean Remote Sensing Towards Climate Resilience, 8 March 2021
5. Perbincangan Profesor Untuk Input Hala Tuju Geoinformasi Fakulti Alam Bina Dan Ukur, 22 Julai 221
6. Invited as a resource person by University of British Columbia to Participate in a Survey on Climate Technologies, 17 July 2021
7. Trainer for "An International Regional Science Training On "Remote Sensing Of Land-Use/Cover Change and Climate Impacts in Coastal Zone", 17-19 Dec 2019, Phuket Thailand
8. Speaker in Workshop of Modelling And Data Analysis, National Institute of Health (NIH) Complex (19-23 Aug 2019)
9. Speaker for First Year Postgraduate Structured Course on GOT Motivation organized by Postgraduate Students Society, Faculty of Geoinformation & Real Estate, 05 February 2018 Speaker for "GOT Motivation- Structured course organized by the Postgraduate Students Society, Faculty of Geoinformation & Real Estate, 28 August 2017
10. Fasilitator for "Retreat Master Plan KL Low Carbon Society Blueprint 2030" – 18-19 Jan 2018, Seri Pacific Hotel, Kuala Lumpur
11. Speaker for "How to Publish in High Impact Journal- Structured course organized by the Postgraduate Students Society, Faculty of Geoinformation & Real Estate, 11 October 2017
12. Fasilitator for "KL Low Carbon Society Blueprint 2030" – 31 July 2017
13. MyTREE summer school 2016 (First Session), "Accelerating Green Development in Asia", organized by UTM- Low Carbon Asia Research Centre, 17-29 July 2016.
14. MyTREE summer school 2016 (Second Session), "Accelerating Green Development in Asia", organized by UTM- Low Carbon Asia Research Centre, 28 Aug-8 Sept 2016.
15. Speaker for module "Publishing for Graduation" - Supervisory Orientation Course (AS 102) to lecturers from Faculty of Geoinformation & Real Estate-24 February 2016
16. Speaker for "Indexed Journal Publication Workshop" Organised by Faculty of Geoinformation & Real Estate, 15 August 2016
17. Speaker for "Publishing in high Impact factor Journal- Structured course organized by the Postgraduate Students Society, Faculty of Geoinformation & Real Estate, 13 December 2016
18. Facilitator for "Kuala Lumpur Low Carbon Society Blueprint 2030" workshop, 22-23 August 2016, DBKL, Kuala Lumpur
19. Training/Knowledge sharing with Malaysian Palm Oil Board on biomass/carbon stock mapping of oil palm, 15-17 February 2016 at UTM.
20. Facilitator for First Focus Group Discussion on Low Carbon Society for Pasir Gudang, 10 March 2015, Convention Hall, Built Environment Faculty, UTM.
21. Training/knowledge sharing session for FELDA FGV on "Methodology for Carbon sink mapping of forests and developing allometric equations to estimate oil palm biomass", 21-22 Oct 2015.
22. Facilitator for "Environmental Performance Index (EPI) workshop, 12 October 2015, Horizon Hotel, Kota Kinabalu, Sabah
23. Facilitator for "Environmental Performance Index (EPI) workshop, 13 October 2015, Hotel Grand Marghareta, Kuching, Sarawak
24. Facilitator for "Environmental Performance Index (EPI) workshop, 18 August 2015, Auditoriam Ishak Pateh Akhir, Sains @ USM, Bayan Lepas, Penang
25. Speaker for "Publishing in Reputable Journals' for postgraduate students from Universiti Teknologi

Malaysia-15 April 2014

26. Organiser and chair for “Publishing in Reputable Journals” Workshop- 15 April 2014- Workshop speakers include Prof. Dr. Arthur P. Cracknell- Editor in chief International Journal of Remote Sensing, and Ms. Pauline Lovell- providing screening service and reporting on the level of English for papers submitted to the International Journal of Remote Sensing.
27. Organiser and chair for Public Lecture titled “Remote sensing and the scientific background to its role in the search for MH370” by Emeritus Prof. Dr. Arthur P. Cracknell- 14 April 2014.
28. Organiser and chair for Guest lecture programme by Prof. Dr. Alfredo Huete titled “Tropical forest seasonal, climate and land use responses as seen from satellite observations” 27 October 2014.

## INTERNATIONAL/NATIONAL ORAL/POSTER PRESENTATIONS

### Presenter

1. **Kasturi Devi Kanniah**, 2022, International Workshop on Land Cover/Land Use Changes (LCLUC), Forestry, and Agriculture in South/Southeast Asia (Presentation Title: Multi-Sensor Satellite Data for Estimating PM2.5 across Malaysia), 8 – 10 Aug 2022, Cambodia.
2. **Kasturi Devi Kanniah**, 2022, International Workshop on Land Cover/Land Use Changes (LCLUC), Forestry, and Agriculture in South/Southeast Asia (Presentation Title: The Impact of Land Use and Land Cover Change on River Morphology), 8 – 10 Aug 2022, Cambodia.
3. **Kasturi Devi Kanniah**, 2019, Remote Sensing Technology for managing mangrove forests in Malaysia, MyMangrove monthly discourse, organized by Mymangrove Research Alliance and Iskandar Regional Development Authority, 17 August 2019 at IRDA, Johor Bahru, Malaysia.
4. **Kasturi Devi Kanniah**, 2019 (23 July 2019), Paper titled “Overview of Atmospheric Aerosol Studies in Malaysia: Known and unknown” in Land Use/Cover Changes, Environment and Emissions in South/Southeast Asia – An International Regional Science Meeting, 22-27th July 2019, Organised by NASA LCLUC Programme and Universiti Teknologi Malaysia, Johor Bahru, Malaysia.
5. **Kasturi Devi Kanniah**, 2019, Paper titled “Estimation of Oil Palm Biomass in Peninsular Malaysia using multi-sensor satellite data, at Department of Earth System Science, Tsinghua University, Beijing, China, 4 June 2019.
6. **Kasturi Devi Kanniah**, 2018, Paper titled “Exploring the Capability of Earth Observation for Achieving Sustainable Development Goals in Malaysia” in International conference on Sustainable Development, 11 to 15 April 2018 at President Hotel, Athens, Greece
7. **Kasturi Devi Kanniah**, Nazarin Ezzaty Mohd Najib, Arthur P. Cracknell, Le Wang and Nordiana Abd. Aziz, 2018 Paper titled “Integrating radar and optical remote sensing data for effective mapping of oil palm plantation in Malaysia” in the 9<sup>th</sup> International Conference and Exhibition on Geospatial & Remote Sensing by the Institution of Geospatial and Remote Sensing Malaysia (IGRSM) 24-25 April 2018 at Berjaya Times Square Hotel, Kuala Lumpur
8. **Kasturi Devi Kanniah** and Afsaneh Sheikhi, 2017, Impact Land Cover Change on Urban Surface Temperature in Iskandar Malaysia, presented in International Conference of Low Carbon Asia and Beyond (ICLCA), 1-3 November 2017, Century Park Hotel, Bangkok, Thailand
9. **Kasturi Devi Kanniah** and Ng Su Wai, 2017, Remote Sensing (small) Satellites of Malaysia: Past experience and Future Direction, presented in 38<sup>th</sup> Asian Conference on Remote Sensing (ACRS), 23-27 October 2017, Hotel The Ashok, New Delhi India (Poster)
10. **Kasturi Devi Kanniah**, 2017, Extraction and assessment of Urban Tree Cover in Malaysia using Multi Resolution Remote Sensing Data, presented in 38<sup>th</sup> Asian Conference on Remote Sensing (ACRS), 23-27 October 2017, Hotel The Ashok, New Delhi India
11. Nazarin Mohd Najib, **Kasturi Devi Kanniah** and AP Cracknell 2017, Mapping Oil Palm Plantation in Malaysia using Multisensor Remote Sensing Data, presented in Remote Sensing and Photo-Grammetry Society (RSPSoc) Annual Conference 2017, 5 -9 September 2017, Imperial College London, UK
12. **Kasturi Devi Kanniah**, 2017, Green Cover Change and Sustainability of Cities, presented in R & D

- Congress on Sustainable Urbanization in the Course of ASEAN Economic Integration, 26-30 June 2017, Sofitel Philiphine Plaza, Manila, Philipines
13. **Kasturi Devi Kanniah**, 2017, Green Cover Change and Sustainability of Kuala Lumpur, presented in Research presentation by Malaysia Sustainable Cities Program (MSCP) Scholars, 13 January 2017, Massachusetts Institute of Tecnology (MIT)
  14. **Kasturi Devi Kanniah** and Ho Chin Siong, 2016, Urban forest cover change and sustainability of Malaysia cities, presented in International conference on Low Carbon Asia and Beyond, 23-25 Nov. 2016, UTM Kuala Lumpur, Malaysia
  15. Siti Shazwani Mohamad Akhir and **Kasturi Devi Kanniah**, 2016, Preliminary analysis of remote sensing technology in urban planning in Malaysia, presented in International conference on Low Carbon Asia and Beyond, 23-25 Nov. 2016, UTM Kuala Lumpur, Malaysia
  16. **Kasturi D. Kanniah**, 2016, Multi-sensor satellite data for carbon storage mapping of green space in a fast growing development corridor in Malaysia, 37<sup>th</sup> Asian Conference on Remote Sensing (ACRS), 17 to 21 October 2016, Colombia, Sri Lanka.
  17. Nurul Amalin Fatimah Kamarul Zaman and **Kasturi Devi Kanniah**, 2016, Estimation of particulate matter using remote sensing data in Selangor, Malaysia, 37<sup>th</sup> Asian Conference on Remote Sensing (ACRS), 17 to 21 October 2016, Colombia, Sri Lanka (Poster Presentation)
  18. Chong Khai Loong, **Kasturi Devi Kanniah** and Christine Pohl, 2016, Oil palm tree height estimation using InSAR, 37<sup>th</sup> Asian Conference on Remote Sensing (ACRS), 17 to 21 October 2016, Colombia, Sri Lanka (Poster Presentation)
  19. **Kasturi D. Kanniah** and Nurul A. F. Kamarul Zaman, 2015, Remote sensing for studying atmospheric aerosols in Malaysia, Proc. SPIE 9640, Remote Sensing of Clouds and the Atmosphere XX, 96400T, 16 October 2015, Toulouse, France.
  20. A Sheikhi, **K D Kanniah**, and C H Ho, 2015, Effect of land cover and green space on land surface temperature of a fast growing economic region in Malaysia, Proc. of SPIE Vol. 9644, Earth Resources and Environmental Remote Sensing/GIS Applications VI, 964413, 16 October 2015, Toulouse, France.
  21. **K D Kanniah**, N Muhamad and C S Kang, 2013, Remote sensing assessment of carbon storage by urban forest, International Symposium on Digital Earth, 26-29 August 2013, Kuching, Sarawak, Malaysia.
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  25. B Rokni Deilmal, **K D Kanniah**, A W Rasib and A Ariffin, **2013**, Comparison Of Pixel Based And Artificial Neural Networks Classification Methods In Detecting Forest Cover Changes In Malaysia, International Symposium on Digital Earth, 26-29 August 2013, Kuching, Sarawak, Malaysia.
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  27. Hamed adab, **Kasturi Devi Kanniah**, Karim Solaimani, and Kian Pang Tan, 2013, Estimating atmospheric humidity using MODIS cloud-free data in temperate humid region, *IEEE International Geoscience & Remote Sensing Symposium*, July 21-26, Melbourne, Australia.
  28. Kian Pang Tan, **Kasturi Devi Kanniah** and Arthur Philip Cracknell, 2013, The potential of modis derived photochemical reflectance index for studying gross primary productivity of oil palm Trees, *IEEE International Geoscience & Remote Sensing Symposium*, July 21-26, Melbourne, Australia.
  29. Chuen Siang Kang and **Kasturi Devi Kanniah**, 2013, Validation of AMSR-E soil moisture product and the future perspective of soil moisture estimation using smos data over tropical region, *IEEE International Geoscience & Remote Sensing Symposium*, July 21-26, Melbourne, Australia.
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  41. **Kasturi Devi Kanniah**, 2010, Preliminary assessment of the impact of atmospheric aerosols on climate change in Peninsular Malaysia, International Photogrammetry, Remote Sensing and Spatial Information Science Conference, 9-12 August 2010, Kyoto Japan.
  42. **Kasturi Devi Kanniah**, 2010, Analysis of the spatial and temporal variability of savanna productivity in the Northern Territory, Australia using MODIS data, International Photogrammetry, Remote Sensing and Spatial Information Science Conference, 9- 12 August 2010, Kyoto Japan.
  43. Beringer J, Hutley L B, Tapper N J, Cernusak L, and **Kanniah K** (2008), Northern Australian savannas are observed as a strong carbon sink: Where does all the carbon go?, *Eos Trans. AGU*, 89(23), West. Pac. Geophys. Meet. Suppl., Abstract B25A-06.
  44. **Kasturi Devi Kanniah**, Jason Beringer, Lindsay Hutley, Nigel Tapper Xuan Zhu, Evaluation of MODIS gross primary productivity and scaling up GPP over northern Australian savannas, *oral presentation, Ozflux workshop on spatial variability and scaling (Australia and New Zealand flux) meeting*, Barossa Weintal Resort Tanunda, South Australia, 4-6 February 2008
  45. Beringer J, Hutley LB, Tapper NJ, Cernusak L and **Kanniah K** (2008) *Northern Australian savannas are observed as a strong carbon sink: Where does all the carbon go?*, International symposium on CO2 flux monitoring Technology, *Invited speaker*, International Conference Hall, Sitou Nature Education area, The Experimental Forest, National Taiwan University, December 16-18, 2008.
  46. Beringer J, Hutley LB, Tapper NJ, Cernusak L and **Kanniah K** (2007) *Northern Australian savannas are*

*observed as a strong carbon sink: Where does all the carbon go?*, Combo, *Invited speaker* - Ecophysiology session, Sydney convention and exhibition centre, September 22-26, 2007

47. **Kasturi Devi Kanniah**, Nigel Tapper, Jason Beringer, Chuck Long, Lindsay Hutley and Xuan Zhu, *Poster* entitled "Interaction between aerosols, clouds and solar radiation: impact on savanna productivity", *Third Australian Aerosol workshop*, 4-7 July 2007, CSIRO Marine and Atmospheric Research, Melbourne, Australia
48. **Kasturi Devi Kanniah**, Jason Beringer, Nigel Tapper, Lindsay Hutley, Xuan Zhu and Chuck Long, "Modelling plant productivity in northern Australian savannas using a land surface model" *poster* presented at a *summer school (Land Surface - Atmosphere Interactions in a Changing Climate)* in Grindelwald, Switzerland, 26-31 August, 2007.
49. **Kasturi Devi Kanniah**, Jason Beringer, Nigel Tapper, Lindsay Hutley, Xuan Zhu, Evaluation of MODIS gross primary productivity and algorithm improvement in Northern Australian savannas, *oral presentation*, *Monash Climate Science Day*, 26 September, 2007.
50. **Kasturi Devi Kanniah**, Nigel Tapper, Jason Beringer, Chuck Long, Lindsay Hutley and Xuan Zhu, *Oral* presentation entitled "Responses of a tropical savanna carbon exchange to smoke aerosols in Northern Australia" presented in "*International Geographic Union*" conference in Brisbane, Australia 3-7 July 2006.
51. **Kasturi Devi Kanniah**, Nigel Tapper, Jason Beringer, Chuck Long, Lindsay Hutley and Xuan Zhu, *Poster* entitled "Preliminary investigations of the role of smoke aerosols on carbon uptake of a northern Australian tropical savanna" presented at *Atmospheric Radiation Measurement Science Meeting* in Albuquerque, New Mexico, USA 27- 31 March 2006.
52. **Kasturi Devi Kanniah**, Teh Poey Lee and Mazlan Hashim Generation of Tasseled Cap Transformation Coefficients for the Use of Tiungsat MSEIS Data, *Tiungsat 1-User Group Seminar*, 24 September 2002, Cyberjaya, Kuala Lumpur, Malaysia
53. **Kasturi Devi Kanniah**, Mazlan Hashim and Mohd Ibrahim Seeni Mohd, "Remote sensing: an environmentally friendly tool to enhance environmental education at the Department of Remote Sensing", Universiti Teknologi Malaysia, 22<sup>nd</sup> *Asian Conference on Remote Sensing Proceeding*, Singapore, 5-9 Nov. 2001
54. **Kasturi Devi Kanniah**, Development of direct satellite readout for daily monitoring of haze and coastal environment, *The Aerospace, IT & Telecommunication Focus Group (ASITT) seminar*, 6 May 2000, Hotel Puteri Pan Pacific, Johor Bahru

## ACADEMIC RECOGNITION

### Plenary/Keynote/ Invited speaker

1. **Invited Speaker** on "21<sup>st</sup> Century Societal Challenges and Nature based Solution" organized by Sai University India, 22 Dec 2022.
2. **Keynote Speaker** In the "International Level Workshop on Google Earth Engine (GEE) for Geo-Informatics Data" organized by Park College of Engineering and Technology Coimbatore, India, 7 -9 April 2022.
3. **Invited Speaker** "Global Scholars Programme" at Dundee University, 30 Aug 2022.
4. **Invited Speaker** for Talk organized by Environmental Change Institute, School of Geography and the Environment, Oxford University, 21 Sept 2022.
5. **Keynote Speaker** MDPI Webinar of Sustainable Development of Global Oil Palm Plantations: Applications of Remote Sensing, 16 April 2021
6. **Keynote speaker** for International Graduate Conference of Built Environment and Surveying (GBES 2021), 30 March 2021 (virtual)
7. Invited speaker FABU Programme "How to Get your Research Output Published in Q1 Journals", 7 Jan 2021 (Webex platform)
8. Invited speaker for Workshop on Primary Forest Conservation in Asia and The Pacific organized by FAO and CIFOR, 23-25 March 2021 (ZOOM platform)
9. Invited Speaker for "The 7th Geoinformation Science Symposium 2021" Held By Universitas Gadjah Mada,

- 25-28 Oct 2021, virtual conference
10. **Keynote speaker** for International webinar series on “Mangrove Conservation & Restoration”, 19 Jan. 2021, organized by the Society for Environment & Mangrove Protection Welfare Association and Sindh Forest Department Pakistan.
  11. Invited speaker for MyMangrove Monthly Discourse, 15 Aug 2019, Iskandar Regional Development Authority (IRDA), Dangar Bay Johor
  12. Invited Speaker Pelan Induk Masyarakat Rendah Karbon Kuala Lumpur 2030, 18-20 April 2019, Pulau Spring Resort Johor
  13. Invited speaker for 1<sup>st</sup> Asia-Pacific Urban Symposium, 11-13 Dec 2019, Thammasat University
  14. Invited speaker for East Asian Symposium on Urban Forests Coping with Fine Dusts in Korea. Sponsored by National Institute of Forest Science, 16-19 Oct 2019, Korea
  15. **Keynote Speaker** for The 6<sup>th</sup> Geoinformation Science Symposium 2019, 26-27 Aug 2019, Yogyakarta, Indonesia.
  16. Invited speaker for Atmospheric Science And Land-Use/Cover Change Session, 23 July 2019, Double Tree Hotel Johor
  17. Invited Expert Speaker on “Application of GIS/remote sensing technologies in environmental and natural resources” at 6<sup>th</sup> International Symposium of LAPAN-IPB Satellite (LISAT) on September 17-18, 2019, Bogor, West Java, Indonesia, organized by Bogor Agricultural University (IPB) and the National Institute of Aeronautics and Space, Indonesia.
  18. Invited Speaker for RCE Iskandar Sustainable & Low Carbon Schools Exhibition 2018. 8 August 2018, Sutera Mall, Johor Bahru.
  19. Plenary session speaker- Talk titled “Green and Blue infrastructure in a changing urban environment” in Plenary LCLUC sessions on Agriculture; Land Atmospheric Interactions and Urban in an international meeting on “Land Cover/Land Use Changes (LC/LUC) and Impacts on Environment in South/Southeast Asia”, 28-30 May, 2018, Institute of Environmental Science and Meteorology, College of Science, University of Philippines, Diliman. This international meeting is organised by NASA Land Cover/Land Use Change Program ([www.lcluc.umd.edu](http://www.lcluc.umd.edu)) in conjunction with South/Southeast Asia Research Initiative ([www.sari.umd.edu](http://www.sari.umd.edu)) and collaboration with several international partners including Global Observation of Forest and Land Cover Dynamics (GOF-C-GOLD), (GEO), Global Agricultural Monitoring (GEOGLAM), NASA SERVIR, University of Maryland College Park, START etc
  20. **Keynote Speaker** for International Conference on Geo-spatial Technology for Natural Resource Management & Climate Change, 22 December 2017, Rajendranagar Hyderabad India
  21. **Keynote Speaker** for International Conference of Low Carbon Asia and Beyond (ICLCA), 2 November 2017, Century Park Hotel, Bangkok, Thailand
  22. Guest Lecturer for International Conference on Geo-spatial Technology for Natural Resource Management & Climate Change, 22 December 2017, Rajendranagar Hyderabad India
  23. Invited Speaker for RCE Iskandar Sustainable & Low Carbon Society Exhibition 2017 organized by Iskandar Regional Development Authority (IRDA) – 19 July 2017
  24. Invited Speaker for Cornerstone Community in Cambridge, USA- “Community Life Presents: 29 May 2017
  25. Scholars Talk titled ‘Green cover change and sustainability of Kuala Lumpur’, at the Department of Urban Studies and Planning, Massachusetts Institute of Technology, USA, 15 March, 2017
  26. Female faces and Malaysia sustainable cities exhibition: Invitation as the speaker, Talk entitled “Green cover change and sustainability of Malaysian cities” delivered on 12 October 2016.
  27. Fully funded invitation for Forum/Meeting- Building Academic Community In Geography/Geoinformatics In Asean 2016 (1-5 August 2016)
  28. Invited Speaker for Johor Sustainable and Low Carbon School Exhibition 2016 (20 Feb 2016) – delivered a speech on “Valuing Our Trees” Organised by Centre for Engineering Education and UTM Low Carbon Asia Research Centre in collaboration with Johor State Education Department (JPNJ)
  29. Invited speaker for "International Workshop on Air Quality in Asia- Impacts of Land Cover/Land Use Changes on Greenhouse Gases/SLCP Emissions and Aerosols" 6 August 2015, Delivered a talk on “Remote Sensing Applications for Investigating Aerosol Properties in Malaysia” Bogor Agricultural University (IPB), Bogor, Indonesia- Jointly Organised by National Institute of Environmental Science (Japan), Global Observation for Forest and Land Cover Dynamics (USA), University of Maryland (USA) and Global Change System and Analysis, Research and Training).
  30. Fully funded invitation for Forum/Meeting- Building Academic Community In Geography/Geoinformatics In Asean 2015 (3-7 August 2015)

31. Invited speaker for Iskandar Malaysia Sustainable and Low carbon schools exhibition 2015 (7 Feb 2015)- Delivered a speech on “Trees: Lungs of the Earth”- Organised by the Low Carbon Asia Research Centre and Centre of Engineering Education, UTM in collaboration with Johor State Education Department and Jointly Organised by Persatuan Pendidikan Sains dan Matematik Johor and Akademi sains Malaysia.
32. Invited speaker for ‘Earth Observation and Monitoring through Remote Sensing’ - workshop organized by IEEE Malaysia section Geoscience and Remote Sensing society chapter- 22 November 2013, at Multimedia University, Melaka Delivered a speech on “Support vector machine for monitoring land cover changes in Johor.

### Chairperson of Technical Sessions

1. International Workshop on Land Cover/Land Use Changes (LCLUC), Forestry, and Agriculture in South/Southeast Asia (Chair: Session-ii. Emission Inventories of Air Pollutants, Slcp, GHG’s and Aerosols, 8 – 10 Aug 2022.
2. Session chairperson for International Conference On Environmental Sustainability And Resource Security (IC-ENSURES 2019), 5-6 Nov 2019, Kuala Lumpur
3. Chairman for a technical session of the International Conference on Sustainable Development, 11 to 15 April 2018 at President Hotel, Athens, Greece
4. Chairman of technical sessions (special sessions on “Geospatial technologies for sustainable development of oil palm industry”) in the 9<sup>th</sup> International Conference and Exhibition on Geospatial & Remote Sensing by the Institution of Geospatial and Remote Sensing Malaysia (IGRSM) 24-25 April 2018 at Berjaya Times Squate Hotel, Kuala Lumpur
5. Session co-chair International Conference on Geo-spatial Technologies for Natural Resource Management & Climate change, 21-22 December 2017, Hydrabad India
6. Session Chair International Conference of Low Carbon Asia and Beyond (ICLCA), 2 November 2017, Century Park Hotel, Bangkok, Thailand

### Reviewer

#### Indexed Journal Reviewer (ISI)

No	Journal	Frequency
1	International Journal of Remote Sensing Q2; IF=1.652	38
2	Remote Sensing Q1; IF= 3.18	14
3	Journal of Applied Remote Sensing Q3; IF= 1.183	5
4	PLOS ONE: Q1; IF=3.234	6
5	Atmospheric Research Q1; IF =3.377	2
9	Atmospheric Environment Q1; IF=3.281	1
6	Journal of Photogrammetry and Remote Sensing (ISPRS) Q1; IF=3.132	3
7	Journal of Tropical Forest Science Q3; IF=0.586	2
8	Remote Sensing of Environment Q1;IF=6.393	4
10	Agriculture Ecosystems & Environment Q1; IF=3.402	1
11	Environmental Pollution Q1; IF= 4.143	3
12	Cities Q1;IF=1.728	1
13	Environmental Conservation Q2; IF= 2.368	1
14	Ecological Complexity Q2; IF=1.931	1
15	Applied Spatial Analysis and Policy (Springer) Q3; IF=0.844	1
16	Central European Journal of Geosciences Q4; IF=0.663	1
17	Scientific Report Q1; IF =5.228	2
18	International Journal of Wildland Fire Q1; IF = 2.429	1
19	Journal of the Science of Food and Agriculture Q1; IF = 1.714	1
20	International Journal of Digital Earth Q1; IF = 2.762	1
21	European Journal of Remote Sensing Q3; IF=1.54	7
22	Environmental Science & Technology Q1; IF = 6.96	2

24	Journal of Cleaner Production Q1; IF = 5.715	2
25	Chinese Journal of Oceanology and Limnology Q4; IF= 0.818	1
26	Nature Communications Q1; IF = 13.092	1
27	Environment International Q1; IF = 7.729	1
28	Geomatics, Natural Hazards and Risk IF = 1.6	1
29	Atmospheric and Oceanic Science Letters	2
30	Atmospheric Pollution Research Q2; IF = 2.918	2
31	Food and Bioproducts Processing Q1; IF = 3.324	1
32	Urban Forestry and Urban Greening Q1 = IF	2
33	Progress in Physical Geography Q1; IF = 4.329	1
34	Science of the Total Environment (STOTEN) Q1; IF = 5.589	7
35	Ecosystem Health and Sustainability	1
36	Environmental Research Q1; IF=5.715	1
37	Environmental Science and Pollution Research. Q2; IF= 3.056	1
38	Heliyon	1
39	Sustainable Production and Consumption Q1; IF= 3.66	1
40	Advances in Space Research Q2; IF=2.178	1
41	Forest Science and Technology	1
42	Aerosol and Air Quality Research, Q3, IF = 3.063	1
43	Forest Ecology and Management, Q1, IF = 3.558	1
44	IEEE Access, Q2, IF = 3.367	1
45	Meteorological Applications, Q3, IF = 2.119	2
46	Geo-Spatial Information Science, Q2, IF = 4.288	1
47	Sains Malaysiana, Q4, IF = 1.009	1
48	Urban Ecosystem, Q2, IF=2.686	1
49	Earth Sciences, Q1, IF = 12.038	1

### Indexed Journal Reviewer (SCOPUS)

No	Journal	Frequency
1	International Journal of Geoinformatics	6
2	International Journal of Geoinformatics special issue	1
3	International Journal of Atmospheric Sciences	1
4	Jurnal Teknologi	1
5	Remote Sensing Applications: Society and Environment	2

### Non indexed Journal Reviewer

No	Journal	Frequency
1	African Journal of Environmental Science and Technology	1
2	Jurnal Intelek UiTM Perlis	1
3	Geoinformation Science	1
4	Malaysian Journal of Remote Sensing & GIS	2
5	Manuscript from Universiti Sains Malaysia	1
6	Geografia-Malaysian Journal of Society and Space	1

### Research Proposals

1. Proposal Evaluation The British Academy SRG2223\_230008 (2022).
2. Fundamental Research Grants Scheme by the Ministry of Higher Education Malaysia- External reviewer (2022)
3. Knowledge Transfer Program Research Innovation Grant (UTM KTP-RIG) 2022 - Internal reviewer
4. Fundamental Research Grants Scheme by the Ministry of Higher Education Malaysia- Internal reviewer (2021) under Resource Sustainability research Alliance (RSRA)

5. Fundamental Research Grants Scheme by the Ministry of Higher Education Malaysia- Internal reviewer (2021) under Innovative Engineering Research Alliance (IERA)
6. Fundamental Research Grants Scheme by the Ministry of Higher Education Malaysia- External reviewer (2020) – reviewed 3 proposal
7. Proposal for UTM Fundamental Research (UTMFR) (2019)
8. Fundamental Research Grants Scheme by the Ministry of Higher Education Malaysia- External reviewer (2019)
9. Fundamental Research Grants Scheme by the Ministry of Higher Education Malaysia- Internal reviewer (2015- 2016) Research University Grants by UTM (2015-2016)
10. Sciencefund research proposal by the Ministry of Science and Technology Malaysia- Internal reviewer (2016)
11. Research proposal for National Research Foundation-South Africa (2011)

#### **Conference papers**

1. Virtual International Graduate Conference of Built Environment And Surveying 2021, 22-23 June 2021
2. The Better Air Quality (BAQ) 2018 Conference. Kuching Sarawak, 14-16 Nov 2018.
3. International Conference on "Geo-Spatial Technology for Natural Resource Management & Climate Change" Hyderabad, India, 2017
4. 6th International Graduate Conference on Engineering, Science and Humanity (IGCESH) 2016, UTM Johor Bahru
5. IGRSM International Conference and Exhibition on Geospatial & Remote Sensing, 2016
6. International Conference on Geomatic and Geospatial Technology, 3-5 Oct. 2016, Kuala Lumpur
7. International Conference of Low Carbon Asia and Beyond (ICLCA), 23-25 Nov. 2016

#### **Professorial Position**

1. External evaluator of applicants for Professorial Position (Universiti Putra Malaysia), July 2022 – 31 Jan 2025.
2. External evaluator of applicants for Professorial Position (Universiti Sains Malaysia), June 2021
3. External evaluator of applicants for Professorial Position (Taylor University), Nov 2019

### **COURSES ATTENDED/ CAPACITY BUILDING**

1. National Outcome Based Learning – Training Of Trainers Series (Noble – Ties) Series ( Siri 1), 30 Aug 2021
2. Program UTM Dean's Course (UTMdec) - Fasa 1, 25 - 27 July 2021
3. Program UTM Dean's Course (UTMdec) - Fasa 2, 22 - 23 Aug 2021
4. Program UTM Dean's Course (UTMdec) - Fasa 3, 27 -28 Sept 2021
5. Webinar "Importance Of Sewerage Services In Relation To The Water Cycle", 16 Feb 2021, virtual
6. How To Be An Effective Chairperson In Viva-Voce Examination (AV101), 9 Aug 2021
7. Seminar on Internal-External Quality Assurance 2019, 21-22 Oct 2019, The Royal Wildad Residence UTMKL
8. Bengkel Pengenalan Model Pengukuran Karbon Kuala Lumpur, 18-20 April 2019, Pulai Springs Resort Johor Bahru
9. AKEPT Leadership & Sustainable Development Programme 2019, 26-27 March 2019, Training room AKEPT
10. Kursus Memperkasa Jaminan Kualiti Akademik Universiti, 18 Feb 2019, KSL Hotel & Resort Johor Bahru
11. Human Governance, 17-18 Oct 2018, Higher Education Leadership Academy (AKEPT) Ministry of Education Malaysia.
12. A 2 Day Workshop on "I Know How You Feel" Empathy: Understanding Audience, 14-15 Mac 2018, Bilik Bengkel Pusat Kepimpinan Akademik UTM (UTMLead) UTM Johor.
13. Internal Auditor Course, 27-28 June 2016, Pusat Latihan UTM
14. A-LTC (AKEPT Learning and Teaching Circle) in Student Supervision Level 1 on 16-18 November 2015 at AKEPT Campus Bandar Enstek, Malaysia.
15. "Turnaround Leadership For Higher Education Institutions" course, 28 September 2015 at Bilik Jamuan

- Dewan Sultan Iskandar-Organised by Pusat Kepimpinan Akademik (UTMLead)
16. Academic Leadership Discourse (Wacana Kepimpinan Akademik) on 8 September 2015, at Dewan Kuliah UTMLead. –Organised by Pusat Kepimpinan Akademik (UTMLead)
  17. Worldview knowledge, framework civilization & the development of a holistic personality (11-12 Nov 2013), UTM- Organised by Universiti Teknologi Malaysia.
  18. Wildlife Conservation Awareness Day, (2 April 2013) Johor Bahru- Organised by Johor Corporation & Universiti Teknologi Malaysia
  19. Capacity Building Workshop on 'Remote Sensing of the Global Water Circulation to Climate Change at Key Laboratory of Microwave Remote Sensing (MIRs/CAs), National Space Center (NSSC), Beijing, China (3-14 September 2012)- Sponsored by Committee on Space Research (COSPAR) and National Space Science Center, Chinese Academy of Sciences
  20. Eddy Covariance Training Course, 12-13 Nov 2011 organised by LI-COR Biosciences, Nebraska at UTM Skudai.
  21. 'Marketing Team- UTM Staff' course, 17 Jan 2011 at Pulau Springs Resort, Johor.
  22. Creative Problem Solving and Innovative Thinking Workshop- 25-27 July 2000- conducted by Business and Advanced Technology Centre UTM, KL
  23. E-Learning Basic Course, 4-5 Feb 2009, UTM Skudai
  24. Internet Technology in Teaching and Learning Course - 24-25 Feb 2009, Centre for Teaching & Learning, UTM Skudai
  25. Kursus Kenegaraan Sistem Saran Malaysia PTK 1- 7-11 April 2005, Organised by National Civics Bureau, Department of Prime Minister.
  26. Use of E-Learning software for Academic Staff (Lecturers Teaching Year 1 Subjects) - 2-3 Nov 2004, UTM Skudai
  27. Preparation of Quality Assurance Document Workshop -24-26 May 2004- Palm Resort Golf and Country Club, Senai, Johor
  28. Induction Course -19 May-6 June 2003, UTM Johor
  29. Academic Advising Course -19-20 Feb 2003- Starhill Golf & Country Club JB
  30. Making and Evaluation of Test/Examination Questions Course - 4 July 2001- UTM skudai

## **CORPORATE/ SOCIAL RESPONSIBILITIES**

1. Member of World Environment Day, 18 Sept 2019, Pusat Sains Negara, in collaboration with NGO Jungle Ambassador
2. Member of Tree Planting & Continuous Monitoring Using Geotrees Mobile Application as A Way To Mitigate Climate Change Impacts, 5 May 2019, SJKT Kulai Besar.
3. Member of International Day of Forest, 21 March 2019, Taman Seri Rampai, Kuala Lumpur
4. Member of MyTreevolution (an iCSR initiative of CEO@ faculty Programme 2.0 fellows that focuses on tree-planting for carbon-offsetting, involving all Malaysian public universities, in collaboration with industry partners, NGOs, and government agencies)
5. Facilitator for "Retreat Pelan Induk masyarakat rendah carbon Kuala Lumpur 2030 Bil1/2018- pelaksanaan program 18-19 January, Seri Pacific Hotel Kuala Lumpur Organized a Public Lecture by Mr Barry Clare, Managing Director of Taylor & Francis, Singapore organized by TropicalMap Research Group, 6 November 2017
6. Involved in Tree Planting at Ladang UPM Serdang, under the CEO @ Faculty Programme 2.0, 10 December 2017
7. Focus group discussion DBKL 2016
8. Focus group discussion Pasir Gudang Municipalities 2015
9. Participation in National Sport Day 2016 at SMK Indahpura on 8<sup>th</sup> of August 2016
10. Committee member of "Transforming Geospatial Technology across community" (Geoscience Education to Schools) Programme- 11 May 2016
11. Knowledge sharing with Malaysian Palm Oil Board on biomass/carbon stock mapping of oil palm, 15-17 February 2016 at UTM.
12. Knowledge sharing with FELDA FGV on "Methodology for Carbon sink mapping of forests and developing allometric equations to estimate oil palm biomass", 21-22 October 2015 at UTM.
13. Programme head- Tree planting at a primary school in Kulai district (a collaborative project between UTM, Green Earth Society (NGO) and Kulai Besar primary school). Social media appearance (Metro Harian

- newspaper) - "Lahir generasi cinta alam" (New generation of nature loving) 24 may 2015.
14. Focus group discussion on the content and feasibility of the 12 Dozen Action of Low Carbon Society of Iskandar Malaysia with a team from Iskandar regional Development Authority, 26 April 2012 at Puteri Pacific Hotel, Johor Bahru, Malaysia
  15. Focus group (stakeholders) discussion on the climate mitigation policy making process for low carbon Iskandar Malaysia, 2nd May 2012 at Puteri Pacific Hotel, Johor Bahru, Malaysia (stakeholders, including, among others, city councillors, municipal staff, non-governmental organisation, industry experts and enterprises).
  16. Friend and Rescuer of Fire Hydrant – a project by KulaiJaya Fire station and IndahPura 1 Secondary School (Teman Pili Bomba dan Penyelamat –projek Balai Bomba KulaiJaya bersama Sekolah Menengah Kebangsaan Indahpura 1)- member since 14 October 2013
  17. Motivation talk to primary school (UPSR) students (KulaiJaya district –zone 2)- organized by Association of Indian Community Development Kulai Jaya (Persatuan Kemajuan Kaum India Kulai Jaya), Kulai Besar - 8 September 2013

## REFEREES

1. **Professor Dr. Mohd Hamdan Ahmad**  
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