

Table of Contents

| | |
|--|----|
| PROFILE | 3 |
| PERSONAL DETAILS | 4 |
| ACADEMIC QUALIFICATION..... | 4 |
| AWARDS AND HONOURS RECEIVED..... | 5 |
| International | 5 |
| National..... | 5 |
| University/Faculty | 6 |
| Others | 6 |
| PROFESSIONAL EXPERIENCE | 6 |
| JOURNAL EDITOR/EDITORIAL BOARD/ADVISORY PANEL..... | 7 |
| ADMINISTRATIVE EXPERIENCE | 7 |
| INTERNATIONAL AND NATIONAL COMMITTEE | 7 |
| International | 7 |
| National..... | 8 |
| PROFESSIONAL MEMBERSHIPS/ASSOCIATIONS | 9 |
| International | 9 |
| Other Memberships..... | 10 |
| TEACHING ACTIVITIES..... | 10 |
| Undergraduate | 10 |
| Postgraduate..... | 11 |
| Undergraduate Project (B.Sc) Supervision | 11 |
| Activities enhancing students' personalities..... | 13 |
| MEMORUNDUM OF UNDERSTANDING/AGREEMENT INITIATED..... | 13 |
| RESEARCH PROJECTS UNDERTAKEN (Overall Total of RM 10, 888, 918.00) | 13 |
| INTERNATIONAL (Total of RM 7,912,818) | 13 |
| NATIONAL (Total of RM 2,976,100.00)..... | 14 |
| INTELLECTUAL PROPERTY (Copyrights)..... | 20 |
| CONSULTANCY INTERNATIONAL & NATIONAL (Total of RM 4,742,442.15) | 20 |
| POSTGRADUATE STUDENT SUPERVISION | 21 |
| Post-Doctoral | 21 |
| Ph.D..... | 21 |
| Master by Research | 23 |
| Master by Taught Course..... | 23 |
| POSTGRADUATE EXAMINATION/VIVA..... | 23 |

| | |
|---|----|
| PhD External Examiner | 23 |
| PhD Internal Examiner | 24 |
| Masters Extenal Examiner..... | 24 |
| Masters Internal Examiner..... | 24 |
| Chairperson PhD Viva Voce..... | 24 |
| Chairperson Master Viva Voce..... | 24 |
| M.Sc and PhD Panel-other appointments..... | 24 |
| PUBLICATIONS | 25 |
| THESIS..... | 25 |
| BOOK | 25 |
| BOOK CHAPTER..... | 26 |
| REFEREED JOURNALS..... | 26 |
| ISI Cited | 26 |
| Scopus Cited..... | 29 |
| Refereed International Journal | 30 |
| Others | 30 |
| MONOGRAPHS..... | 30 |
| EXPERT/ POLICY REPORTS..... | 30 |
| CONFERENCE PAPERS..... | 32 |
| ISI Cited | 32 |
| SCOPUS Cited..... | 33 |
| Other Proceedings | 34 |
| Resource person for short Course or Training..... | 35 |
| INTERNATIONAL/NATIONAL ORAL/POSTER PRESENTATIONS..... | 35 |
| Presenter | 36 |
| Plenary/Keynote/ Invited speaker | 39 |
| Indexed Journal Reviewer (ISI) | 40 |
| Indexed Journal Reviewer (SCOPUS)..... | 41 |
| Research Proposals | 41 |
| Conference papers..... | 41 |
| COURSES ATTENDED/ CAPACITY BUILDING..... | 41 |
| CORPORATE/ SOCIAL RESPONSIBILITIES..... | 42 |
| REFEREES | 43 |



PROF DR. KASTURI DEVI KANNIAH
(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 the head of TropicalMap research group (Sustainability Research Alliance) and a full member of IPASA (Centre for Environmental Sustainability and Water Security), UTM. She is currently serving as Associate Dean (Quality and Strategy) in the Faculty of Built Environment and Surveying. 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 18 with a cumulative impact factor of journal articles ~112.

She is the Associate Editor (beginning Jan 2019) 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
Correspondent : Faculty of Built Environment & Surveying, Universiti Teknologi Malaysia, 81310
Address : UTM, Johor Bahru, Malaysia, Johor.
Tel : (Mobile): +6019-7260925 (Office): +607-5530739 (Fax): +607-5566163
E-mail : kasturi@utm.my
Website : <https://people.utm.my/kasturidevikanniah/>
<http://www.staff.utm.my/portalv3/portal/kasturi/>
ResearchGate: https://www.researchgate.net/profile/Kasturi_Kanniah/

ACADEMIC QUALIFICATION

| | |
|------------------------|---|
| May 24 to June 8, 2019 | Visiting Researcher to Department of Earth System Science, Tsinghua University Funded by the Department of Earth System Science, Tsinghua University |
| 2016-2017 | Visiting Research Fellow MIT-UTM 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 | Honorary Research Fellow , Monash University, Australia |
| 2005-2009 | Doctor of Philosophy (PhD) 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 | Master of Philosophy (M.Phil) 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 | Certificate Industrial Geography Osaka University of Foreign Studies, Osaka, Japan Advisor: Prof. Dr. Takayama Masaki |
| 1991-1995 | Bachelor of Arts (First class honors) Geography Universiti Malaya, Malaysia |

AWARDS AND HONOURS RECEIVED

International

1. Science of the Total Environment Outstanding Contribution in Reviewing June 2018.
2. Remote Sensing of Environment Recognised Reviewer January 2018.
3. Journal of Cleaner Production Outstanding Contribution in Reviewing September 2017.
4. Journal of Cleaner Production Recognised Reviewer August 2017.
5. Environmental Pollution Recognised Reviewer August 2017.
6. Science of the Total Environment Recognised Reviewer February 2017.
7. 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
8. 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
9. Travel Grant to Manila, Philippines. 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).
10. Universiti Teknologi Malaysia-Massachusetts Institute of Technology International Scholars Programme- Malaysian Sustainable Cities- from 1 September 2016-30 May 2017
11. Fully funded invitation for Forum/Meeting- Building Academic Community In Geography/Geoinformatics In Asean 2016 (1-5 August 2016)
12. 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)
13. Fully funded invitation for Forum/Meeting- Building Academic Community In Geography/Geoinformatics In Asean 2015 (3-7 August 2015)
14. Elsevier Recognised Reviewer 2015
15. PLOS ONE Recognised Reviewer 2015
16. Marqui's who's who in the world 2014 (International recognition for noteworthy achievements that have proved to be of significant value to society)
17. Marqui's who's who in the world 2013 (International recognition for noteworthy achievements that have proved to be of significant value to society)
18. 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.
19. Marqui's who's who in the world 2012 (International recognition for noteworthy achievements that have proved to be of significant value to society)
20. 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)
21. 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)
22. Full Monbusho Scholarship to undertake Research in Osaka University of Foreign Studies, Japan, April 1995- October 1996 (International Scholarship)
23. The International Biographical Centre Cambridge Certificate for Outstanding Scientific Achievement award 2015.
24. Cambridge Certificate for Outstanding Scientific Achievement (2016)

National

1. UTM Low Carbon City Framework (LCCF) Diamond Recognition Award by Malaysia Green Technology Corporation, 2017
2. 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)

- 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

- Excellent Service Award-2017 (Institute-RISE level Recognition based on 2017 achievements)
- Excellent Service Award-2016 (Institute-RISE level Recognition based on 2016 achievements)
- Excellent Service Award-2016 (Faculty level Recognition based on 2016 achievements)
- Excellent Service Award-2016 (University level Recognition based on 2015 achievements)
- One of the finalist for Publication in high impact factor Journals-2016 (University level Recognition based on 2015 achievements)
- Anugerah Utama Tokoh Akademik- 2016 (Faculty level Recognition based on 2015 achievements)
- Anugerah Utama (Penerbitan)-2016 (Faculty level Recognition based on 2015 achievements)
- Anugerah Utama Knowledge Transfer Program-2016 (Faculty level Recognition based on 2015 achievements)
- Anugerah Editor Penerbitan Berindeks -2016 (Faculty level Recognition based on 2015 achievements)
- Anugerah Harta Intelek -2016 (Faculty level Recognition based on 2015 achievements)
- Anugerah Jaringan Industri -2016 (Faculty level Recognition based on 2015 achievements)
- Anugerah Knowledge Transfer Programme -2016 (Faculty level Recognition based on 2015 achievements)
- Anugerah Prestasi Cemerlang eLPPT -2016 (Faculty level Recognition based on 2015 achievements)
- Anugerah Artikel Berindeks WoS Q1 -2016 (Faculty level Recognition based on 2015 achievements)
- 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)
- One of the finalist for Publication in high impact factor Journals, 2009 (University level Recognition)
- Excellent Service Award, UTM (2009)
- Publication Award 2005- Faculty of Geoinformation Science & Engineering (Faculty level Recognition).
- Research Awards (Excellent Achievement), 2003, UTM (University level Recognition)

Others

- 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"
- Interviewed by Berita Harian (local newspaper) on 21 December 2015 (page 15) – "Pendidikan Geosains perlu Diperluas." (Geoscience Education Should be Extended)
- 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)

PROFESSIONAL EXPERIENCE

| | |
|-----------------------|---|
| July 2018-June 2021 | Assistant Dean (Quality & Strategy) , Faculty of Built Environment & Surveying |
| June 2015-31 Aug 2016 | Postgraduate Programme Manager , Faculty of Geoinformation and Real Estate |
| May 2014-Current | Associate Professor , Department of Geoinformation |
| Nov 2012-May 2019 | Head , "Tropical Resources Mapping Research Group", Universiti Teknologi Malaysia |
| Oct 2009-2014 | Senior Lecturer , Department of Remote Sensing, Faculty of Geoinformation and Real Estate, UTM |
| July 2009- Dec 2012 | Postgraduate Programme Coordinator (Remote Sensing) |

| | |
|------------------------|--|
| Feb-July 2009 | Undergraduate Programme Coordinator (Remote Sensing) |
| May 2005- Jan 2009 | PhD student , Monash University, Australia |
| Aug 2002- July 2004 | Undergraduate Programme Coordinator (Remote Sensing) |
| Sep 1999-Oct 2009 | Lecturer , Department of Remote Sensing, Faculty of Geoinformation and Real Estate, UTM |
| 1997-1998 | M.Phil student , School of Geography, Cambridge University, UK |
| 1996-1997 | Research student , Osaka University of Foreign Studies, Japan |
| 1995-1996 | Tutor , Dept. of Geography, University Malaya |
| 1995-1996 | Temporary Teacher , Assuntha Primary School, Petaling Jaya, Malaysia |
| 1991-1995 | Undergraduate Student , Dept. of Geography, University Malaya |
| 1990 (Jan-July) | Temporary Teacher , primary school-SRJK (T) Serdang, UPM, Selangor, Malaysia |

JOURNAL EDITOR/EDITORIAL BOARD/ADVISORY PANEL

1. Associate Editor, International Journal of Remote Sensing (Q2 Journal)- from Jan 2019
2. Editorial board member -International Journal of Geoinformatics- Scopus cited- since June 2012
3. Editorial board member- Geoinformation Science Journal- Refereed International journal (June 2009 to June 2010)

ADMINISTRATIVE EXPERIENCE

1. Assistant Dean (Quality and Strategic) Faculty of Built Environment & Surveying, Universiti Teknologi Malaysia from 1 July 2018 to 30 June 2021
2. Coordinator-Research and Publication, Faculty of Geoinformation & Real Estate, from 1 July 2017 to 30 June 2018
3. Postgraduate Programme Manager, Faculty of Geoinformation & Real Estate, May 2015 to August 2016
4. Research Group Leader (TropicalMap) since Nov. 2012
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. **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
2. 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

3. **Organising Committee Member** of 9th IGRSM International Conference and Exhibition on Geospatial & Remote Sensing (IGRSM 2018), 24-25 April 2018 at Berjaya Times Square Hotel, Kuala Lumpur
4. **Organiser of a special session** on “Geospatial technologies for sustainable development of oil palm industry” in the 9th 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
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 3rd 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 6th 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 committee **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** of The Clean Air Forum Society of Malaysia (MyCAS) since June 2018.
2. MyTreeVolution- Tree Tagging and Monitoring Expert- since Nov 2017

3. 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
4. National Geomatic/Geoinformatic Student Innovation Competition 2012 Sub-Committee Member (February- Dec 2012)

University/Faculty

1. **Committee member** of Remote Sensing postgraduate programme (1May 2017 to 30 Apr 2019)
2. **Evaluation panel** for Progress presentation Remote Sensing Students sem 1 2017/2018, FGHT UTM, 5-6 November 2017
3. **International Referee** for Nurul Hazrina Idris 2018 Australia Endeavour Research Fellowship Application, Australian Government, 8-13 June 2017
4. **Mentor** for Kursus Penyeliaan Staff Akademik AS 103, FGHT UTM – (18 June – 8 November 2017)
5. **Evaluator** of Audit Pemantuhan Diploma Pengurusan Harta Tanah – (24 Jan -25 Jan 2017)
6. **Auditor** of Academic Quality FGHT - (1 July 2017 – 31 Dec 2018)
7. Committee **member** of Penyelarasan Penyelidikan dan Penerbitan FGHT UTM – (1 July 2017- 30 Jun 2018)
8. Committee **member** of Pengurusan Penyelidikan dan Penerbitan FGHT UTM – (1 July 2017- 30 Jun 2018)
9. Committee **member** of Program Pasca Siswazah Remote Sensing, UTM – (1 May 2017 – 30 April 2019)
10. University Graduate Studies, Academic Committee **Member** (JAPSU), UTM - 1 January 2016 to 31 August 2016
11. Committee **member** of Notis Pencalonan Sarjana and Doktor Falsafah- Faculty of Geoinformation & Real Estate (16 June 2015-31 Aug 2016)
12. **Chairperson** of Plagiarism Panel- Faculty of Geoinformation & Real Estate (27 Oct 2015-31 Aug 2016)
13. Committee **member** of Pemantapan Program Geoinformatic- Faculty of Geoinformation & Real Estate (24 Feb 2016- 31 Aug 2016)
14. Committee **member** of Panel Penilai Abstract Sarjana and Doktor Falsafah Faculty of Geoinformation & Real Estate (16 June 2015-31Aug 2016)
15. Academic Programme Marketing Committee **member**- Faculty of Geoinformation & Real Estate: 20 May 2009-19 May 2011
16. Quality Assurance Committee **Member**- Faculty of Geoinformation & Real Estate: (13 February 2012 to 12 February 2014)
17. **Chairperson** of the Postgraduate Committee, Remote Sensing Department- Faculty of Geoinformation & Real Estate: January 2011 to Dec 2012).
18. Committee **Member of** Postgraduate Programme at Faculty of Geoinformation and Real Estate (COPPA Committee) 28 October 2010- 27 October 2011.
19. Research Methodology course Committee **member** at the Faculty of Geoinformation and Real Estate 19 August 2011- 11 September 2012
20. Quality Assurance Document (MQA), B.Sc Remote Sensing Programme Committee **member**- Faculty of Geoinformation & Real Estate from 25 October 2010 to 24 October 2012.
21. Examination Question Panel **member**, Department of Remote Sensing- Faculty of Geoinformation & Real Estate from 1 October 2010 to 3 September 2012.
22. 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 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 Clean Air Society (MyCAS), since July 2018 (membership no: AM-18-0034)
2. 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 |
|------------------|--------------|---|-------------|
| 2018/2019 1 | SBEG1112 | Geographic Studies | 2 |
| 2018/2019 1 | SGHS1312 | Geographic Studies | 2 |
| 2017/2018 1 | SGHS1312 | Geographic Studies | 2 |
| 2015/2016 1 | SGHG | Geographic Studies | 2 |
| 2014/2015 1 | 1312 | Geographic Studies | 2 |
| 2004/2005 1 | SGS 2163 | Introduction to Oceanography and Physical geography | 3 |
| 2001/2002 1 | | | 3 |
| 2000/2001 1 | | | 3 |
| 2009/2010 2 | SGS 4323 | Environmental Impact Assessment | 3 |
| 2003/2004 1 | | | 3 |
| 2001/2002 1 | | | 3 |
| 2000/2001 1 | | | 3 |
| 2002/2003 2 | SGS 3162 | Technical Writing | 2 |
| 2001/2002 1 | | | 2 |
| 2000/2001 2 | | | 2 |
| 2002/2003 1 | SGS 4113 | Remote Sensing for Environmental Application | 3 |
| 2001/2002 1 | | | 3 |
| 2003/2004 1 | SGS 2213 | Applied Statistics for Remote Sensing | 3 |
| 2002/2003 2 | | | 3 |
| 2003/2004 2 | SGS 2643 | Field Data Collection | 3 |
| 2011/2012 1 | SGS 2513 | Technology Remote Sensing 2 | 3 |
| 2010/2011 1 | | | 3 |
| 2009/2010 1 | | | 3 |
| 2013/2014 1 | SGS 4532 | Undergraduate Project 1 | 2 |
| 2012/2013 1 | | | 2 |
| 2011/2012 1 | | | 2 |
| 2010/2011 1 | | | 2 |
| 2009/2010 1 | | | 2 |
| 2012/2013 2 | SGS 4644 | Undergraduate Project 2 | 4 |

| | | | |
|--|----------|---|------------------|
| 2011/2012 2 | | | 4 |
| 2010/2011 2 | | | 4 |
| 2009/2010 2 | | | 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 1999/2000 2 1999/2000 1 | SGS 3243 | Remote sensing for Earth Resource Management | 3 3 3 |
| | | Total Credits | 111 |

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 |
|----------------------------|--------------|------------------------------------|-------------|
| 2017/2018 2 | MGHS1014 | Remote Sensing Technology | 4 |
| 2017/2018 2 | MGHU 1063 | Research Methodology | 3 |
| 2017/2018 2 | MGHS 1083 | Research Methods in Remote Sensing | 3 |
| 2017/2018 1 | MGHS1014 | Remote Sensing Technology | 4 |
| 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 |
| | | Total | 50 |

Undergraduate Project (B.Sc) Supervision

1. Muhammad Hafiz Bin Ab Saman (2016), Urban Tree Cover Mapping
2. Lina Farhana Binti Ab Karim (2015), Estimation of Aboveground biomass of Tropical forest using Lidar

and Alos Palsar

3. Siti Fatimah Binti Mat Rahim (2014), Biomass estimation using Alos Palsar
4. Nurul Amalin Fatimah Binti Kamarul Zaman (2014), Estimation of Particulate Matter (PM₁₀) Using Medium Resolution Imaging Spectroradiometer (MERIS) AOD in Peninsular Malaysia
5. Nur Rabiatal Adawiyah Binti Jobli (2013), Carbon storage estimation of mangrove forest using optical and radar satellite data.
6. Siti Shazwani Binti Mohamad Akhir (2013), Support Vector Machines (SVM) for monitoring mangrove changes over west south Johor
7. Norfashareena Binti Muhamad (2012), Remote Sensing assessment of carbon sequestration by urban forest
8. Low Chen Yen (2012), Evaluations of MODIS evapotranspiration product for tropical forest in Peninsular Malaysia
9. Chiang Hui Shuang (2012), Carbon storage estimation of street trees in Johor Bahru using remote sensing techniques
10. Nurhidayah Binti Hamdan (2012), Deriving biophysical parameters of oil palm trees using airborne hyperspectral data
11. Lim Tze Chyn (2011), Mapping flood hazard zone (thesis in malay language- pemetaan kawasan rawan bencana banjir)
12. 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)
13. Syarafina Binti Yaacob (2011), Mapping Solar Radiation In Peninsular Malaysia Using Aqua Modis Data
14. Hou Lee Ping (2011), Mangrove Species Classification Using Worldview-2 Data
15. 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)
16. Halimatun Saadiah Binti Majid (2010), Urban mapping using IKONOS data (thesis in malay language- Pemetaan Bandar dengan menggunakan data Ikonos)
17. 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.
18. 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)
19. Khairul Faizi bin Dalail (2009), Flood detection using Radarsat-1 data
20. Siti Nurliana binti Saat (2009), Monitoring clouds movement during 2006 Johor flood using satellite imageries
21. Ng Su Wai (2005), Classification of Ikonos data for mangrove mapping
22. Jason Jon Benedict (2004), The application of remote sensing and GIS for the development of fire mapping database
23. Kristofre Ian Morton (2004), An evaluation of lambertian correction, mannert correction and C correction for SPOT satellite image over Cameron Highlands
24. 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)
25. Hadznizan Hamdan (2003), Effect and correction of BRDF for NOAA AVHRR data (thesis in malay language-Kesan dan pembetulan BRDF terhadap data NOAA AVHRR)
26. Kasturi Gunaratnam (2003), Buildings' edge extraction from Lidar data (thesis in malay language- Pengestrakan sisi bangunan daripada data Lidar)
27. Khoo Kian Hong (2003), Timber volume estimation for Pasoh Forest reserve using landsat 7 ETM+ imagery
28. 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)
29. 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))

30. 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)
31. 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. Judge for Three Minute Thesis Competition 2018, Convention Hall Faculty of Built Environment UTM- 21st March 2018
2. Jury for Graduate Exhibition and Competition (GRex COM 2017), Dewan Konvensyen, B12 UTM Johor- 19 September 2017
3. Advisor - Postgraduate Student Society, Faculty of Geoinformation and Real Estate, UTM - June 2015-Aug 2016
4. Academic Advisor for year 4 students - session 2013/2014
5. Academic Advisor for year 3 students - session 2012/2013
6. Academic Advisor for year 2 students - session 2011/2012
7. Academic Advisor for year 1 students - session 2010/2011
8. Remote Sensing Camp 2- 4-11 Dec 2010 in Kuala Lumpur, Malaysia
9. Accompanying students on Global Outreach Programme to National University of Singapore 18 March 2009
10. 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)
11. Remote sensing Camp from 7-9 August 2009 in Port Dickson, Malaysia
12. Remote sensing Camp from 20 March to 3 April 2005 in Kota Tinggi, Malaysia
13. Remote sensing Camp 2-17 May 2001 in Shah Alam and Klang Valley, Malaysia

MEMORANDUM OF UNDERSTANDING/AGREEMENT INITIATED

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

RESEARCH PROJECTS UNDERTAKEN (Overall Total of RM 10, 888, 918.00)

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 | : Ongoing |

- 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 : 6 months (1Mar 2019 to 31 Aug 2018)
 Status : Ongoing
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 : Ongoing
 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 2,976,100.00)

- 1 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
 Value : RM 104,500.00
 Duration : 1 Sept 2019- 31 Aug 2021
 Status : Ongoing
- 2 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 2017
 Status : Ongoing

- 3 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
- 4 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
- 5 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
- 6 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
- 7 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
- 8 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

- 9 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
- 10 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
- 11 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
 Value : RM 30,000.00
 Duration : 2 years (14 August 2009 to 13 August 2011)
 Status : Completed
- 12 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
- 13 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
- 14 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 (1 July 2017- 31 Dec 2018)
 Status : Ongoing
 Head : Dr. Nurul Hazrina Idris (UTM)

- 15 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)
- 16 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)
- 17 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 : 1 July 2016-30 June 2018
 Status : Ongoing
 Head : Assoc. Prof. Dr. Zainura Zainon Noor (UTM)
- 18 Position : **Research Member**
 Research Title : Development of empirical model for razaksat-2 satellite cross calibration
 Sponsor : Ministry of Higher Education and UTM
 Value : RM 50,000.00
 Duration : 1 July 2016 -30 June 2017
 Status : Completed
 Head : Dr. Alvin Lau Meng Shin
- 19 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)
- 20 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)

- 21 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)
- 22 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)
- 23 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)
- 24 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)
- 25 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)
- 26 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)

- 27 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
- 28 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)
- 29 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)
- 30 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)
- 31 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. Nature based solution for removing air pollution in cities, by **Kasturi Devi Kanniah** and Nurul Amalin Fatihah binti Kamarul Zaman, June 2019 (LY2019002141).
2. "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))
3. 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))
4. 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
5. 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))
6. 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))
7. 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))
8. 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))
9. 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))
10. 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))
11. 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 4,742,442.15)

INTERNATIONAL

- | | | |
|---|----------|---|
| 1 | Title | : "Land use and land cover reviewer for "Roundtable Sustainable on Palm Oil (RSPO)" VOT 995 |
| | Period | : From 1 Oct 2015 – 25 April 2019 |
| | Sponsor | : Roundtable Sustainable on Palm Oil (RSPO) |
| | Position | : Technical Consultant (Head) |
| | Value | : RM 181, 934.50 (until Nov 2018) |

NATIONAL

- | | | |
|---|----------|---|
| 2 | 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 |

- 3 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
- 4 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
- 5 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
- 6 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 Status : RM 2,336,602.65
 Completed

POSTGRADUATE STUDENT SUPERVISION

Post-Doctoral

| No | Year | Name | Status | Title | Role of Supervision |
|----|--|------------------------------|------------------|--|---------------------|
| 1 | 1 June 2018 – 31 Oct 2018 and 1 May 2019-31 May 2019 | Dr Nurul Hazrina binti Idris | Completed | Development of processing method to improve ocean geophysical parameters from ESA SAR altimetry over coastal ocean | Supervisor |
| 2 | 1 September 2014 – 31 August 2015 | Tan Kian Pang (PD133) | Completed | 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) | Graduated | Estimating primary productivity of oil palm in Peninsular Malaysia using remote sensing | Main Supervisor |

| | | | | | |
|----|-------------------------------|--|------------------|---|-----------------|
| | | | | and ancillary data | |
| 2 | 14 April 2010- 9 April 2014 | Hamed Adab (PG 093110) | Graduated | 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) | Graduated | Estimating aboveground biomass of oil palm trees in Sulawesi, Indonesia using Synthetic Aperture Radar data | Main Supervisor |
| 4 | 29 Oct 2010- 21 November 2016 | Afsaneh (PG103061) | Graduated | Predicting urban heat island in Iskandar Malaysia using Artificial Neural Network technique | Main Supervisor |
| 5 | 6 Sept 2011- Oct 2017 | Kang Chuen Siang (PG113019) | Graduated | Validation of SMOS soil moisture products over forested land in tropical region | Main Supervisor |
| 6 | Since July 2016 | Mohd Hilmi P.Ramlee | Completed | Hasilan air di negeri Kelantan dengan menggunakan teknik remote sensing | Co- Supervisor |
| 7 | Since 18 Jan 2018 - | Hazrat Bilal (P85976) Universiti Kebangsaan Malaysia (UKM) | Completed | Spatio temporal assessment of the snow cover dynamicsin association with hydro power generation in a changing climatic condition in upper Indus basin | Co-supervisor |
| 8 | Since 10 March 2015 | Fateen Nabilla Binti Rasli (PGH 143028) | Ongoing | Identification of Green Corridors in Iskandar Malaysia using Geospatial Technology for Biodiversity Conservation | Main supervisor |
| 9 | Since 10 March 2015 | Nazarin Ezzaty Binti Mohd Najib (PGH 143027) | Ongoing | Regional assessment of oil plam biomass using remote sensing data | Main Supervisor |
| 10 | Since 29 August 2013 | Noor Salehan Binti Mohammad Sabli (PK133003) | Ongoing | Development of Water Footprint Framework for Crude Palm Oil Production | Co-supervisor |
| 11 | Since May 2017 | Nurul Amalin Fatihah Binti Kamarul Zaman (PGH 163024) | Ongoing | Estimating Particulate Matters and Assessing Their Removal by Green Cover using Satellite | Main Supervisor |

| | | | | | |
|----|------------------|--|---------|---|---------------|
| | | | | Remote Sensing Techniques | |
| 12 | Since 4 Jan 2018 | Yuqi Cheng Tsinghua University, Beijing, China | Ongoing | Oil palm mapping in Malaysia using Alos Palsar data | 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) | Graduated | 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 Fatimah Binti Kamarul Zaman(MGH 143026) | Graduated | Modeling Particulate Matters (PM10) In Malaysia Using Aerosol Optical Depth and Meteorological Parameters | Main Supervisor |
| 3 | Since 2 Sept 2014 | Rohayu Binti Abdullah (MBE143006) | Graduated | Selection of Urban Tree Species for Urban Parks and Roadside in Iskandar Malaysia | Co-supervisor |
| 3 | 28 Sept 2014 | Chong Khai Loong (MGH 143039) | Completed | Oil Palm Height Estimation for Age Determination Using InSAR Data | 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) | Graduated | 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) | Graduated | Site Suitability Analysis of Urban Parks in Iskandar Malaysia Using GIS and Remote Sensing Techniques | Main Supervisor |
| 3 | 28 Aug 2013-18 Feb 2015 | Nazarin Ezzaty Binti Mohd Najib (MG 131007) | Graduated | Decadal changes in forest cover in Malaysia using Landsat satellite data | Main Supervisor |
| 4 | 2 Feb 2016-20 Sep 2017 | Camalia Binti Saini | Graduated | Oil palm age classification in ladang Tereh Selatan, Johor, Malaysia using remote sensing technique | Co-supervisor |

POSTGRADUATE EXAMINATION/VIVA

PhD External Examiner

1. K. V. G. Rajkumar, Vellore Institute of Technology, India (Jan 2019)
2. Chittana Phompila, The University of Adelaide, Australia (March, 2016)
3. Nishadh K A, Bharathiar University, Coimbatore, India (Dec 2016)

4. Makama Ezekiel Kaura, Univeristi Sains Malaysia (Viva Voce on 15 Aug 2018)

PhD Internal Examiner

1. Hasan Zabih (October 2016)
2. Nurun Nadhirah binti Md Isa (10 February 2016)
3. Hasan Zabih (14 June 2015)

Masters Extenal Examiner

1. Khairil Izwan Ahmad Arshad (GS35834), Master of Science, Universiti Putra Malaysia (April, 2016)
2. Noryusdiana Mohammad Yusoff (GS 40842), Master of Science, Universiti Putra Malaysia (Sep, 2016)

Masters Internal Examiner

1. M.Sc Viva. Nur Atiqah Ainaa (25 January 2015)
2. M.Sc Viva. Malik Rashid Abbas (16 March 2014)
3. M.Sc Viva.Yeap Eng Choon (30 April 2014)

Chairperson PhD Viva Voce

1. Chairperson PhD. Viva-voce (11 July 2011) UTM Student (Babolola Ayo-Faculty of Geoinformation & Real Estate).
2. Assistant to chairperson PhD Viva Voce (16/03/2014) UTM student (Javad Mirnazari)
3. 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 Feb 2019) (Lee Le Ming - Faculty of Built Env & Surveying)
2. Chairperson M.Phil Viva-Voce (27 Jan 2019) (Mohd Khairul Bin Abdullah Halim - Faculty of Built Env & Surveying)
3. Chairperson M.Phil Viva-Voce (6 Jan 2019) (Mohd Syafiq Md Sukor - Faculty of Built Env & Surveying)
4. Chairperson M.Phil Viva-Voce (14 May 2018) (Muhammad Afiq Bin Aziz- Faculty of Geoinformation and Real Estate)
5. Chairperson M.Phil Viva-Voce (6 May 2018) (Nor Fatin Hanani Binti Jumaat- Faculty of Geoinformation and Real Estate)
6. Chairperson MSc. Viva-voce (16 May 2016) UTM Student (Jespal Singh Gill A/L Autar Singh- Faculty of Geoinformation and Real Estate)
7. Chairperson MSc. Viva-voce (05 April 2016) UTM Student (Adzlan Bin Ainee- Faculty of Geoinformation and Real Estate)
8. Chairperson MSc. Viva-voce (14 February 2016) UTM Student (Siti Zainun Mohamad- Faculty of Geoinformation and Real Estate)
9. Chairperson Msc.Viva-voce (31 December 2015) UTM Student ('Asim 'Abdullah bi Ainullotfi - Faculty of Geoinformation and Real Estate)
10. Chairperson MSc. Viva-voce (24 June 2015) UTM Student (Wan Muhammad Aizzat - Faculty of Geoinformation and Real Estate)
11. Chairperson Msc. Viva-voce (23 November 2015) UTM Student (Nurul Asikin Che Daud - Faculty of Geoinformation and Real Estate)
12. Chairperson Msc. Viva-voce (23 November 2014) UTM Student (Lee Szue Yann - Faculty of Geoinformation and Real Estate)
13. Chairperson Msc. Viva-voce (18 May 2014) UTM Student (Wan Nor Fa'aizah Wan Abdul Basir - Faculty of Geoinformation and Real Estate)
14. 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 -Conversion Master to PhD (18 January 2015) UTM Student (Syarifuddin Misbari- Faculty of Geoinformation and Real Estate)

2. Examiner MSc Research proposal presentation (23 August 2013) UTM student (Malik Rashid Abbas- Faculty of Geoinformation and Real Estate)
3. Examiner PhD Research proposal presentation (23 August 2013) UTM student (Chew Wei Chuang- Faculty of Geoinformation and Real Estate)
4. Chairperson- PhD Research proposal presentation (14 November 2011) UTM student (Wani Sofia Binti Udin- Faculty of Geoinformation and Real Estate)
5. Examiner MSc. Research proposal presentation (16 August 2011) UTM student (Norsheilla Bt Johan Chuah - Faculty of Geoinformation and Real Estate)
6. 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)
7. Examiner MSc. Research proposal presentation (17 May 2010) UTM student (Ahmad Thaariq bin Mohd Khairudin- - Faculty of Geoinformation and Real Estate)
8. Examiner MSc. Research proposal presentation (13 May 2010) UTM student (Yeo Sek Khas - Faculty of Geoinformation and Real Estate)
9. Examiner MSc. Research proposal presentation (3 June 2010) UTM student (Nurul Nadia Binti Yahya - Faculty of Geoinformation and Real Estate)
10. Examiner PhD. Research proposal presentation (23 February 2010) UTM Fast Track student (Jaw Siow Wei- Faculty of Geoinformation and Real Estate)
11. Examiner PhD. Research proposal presentation (3 June 2010) UTM student (Mohd Idris bin Ali- Faculty of Geoinformation and Real Estate)
12. 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 Faedah Mohd Shaharom, (2015), UTM high impact research @ Royal Belum -Temengor 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 Shaharuddin, Mohd Rashid Mohd Yusof, Muhammad Zaly Shah Muhammad Hussein, Gobi Krishna Sinniah, Afsaneh Afzali, Nurain

Mohd Sith, Yuzuru Matsuoka, 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*, Malaysians 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. **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).
2. **Kanniah, K.D** and Beringer, J., 2017, Tropical savanna Ecosystems, *International Encyclopedia of Geography: People, the Earth, Environment, and Technology*, John Wiley & Sons, Ltd.
3. **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
4. **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: 18, Total Citations: 834, CIF: 112.152 - Updated 25 Apr 2019)

ISI Cited

1. **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)**
2. 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)**.
3. 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)**
4. 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](#), 3827 – 3839, 10.1109/TGRS.2018.2888535) **Impact factor: 4.662 (Q1)**.
5. 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)**.
 6. 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)**
 7. 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)**
 8. 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)**
 9. **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)**.
 10. **Kasturi Devi Kanniah**, 2017, Quantifying Green Cover Change for sustainable Urban Planning: A case of Kuala Lumpur, Malaysia, *Urban Forestry & Urban Greening*, 27, 287-304 **Impact factor: 2.113 (Q1)**.
 11. Kamarul Zaman, N.A.F., **Kanniah, K.D** and Kaskaoutis, D.G., 2017, Estimating Particulate Matter using satellite based aerosol optical depth and meteorological variables in Malaysia, *Atmospheric Research*, Volume 193, Pages 142–162 **Impact factor: 3.778 (Q1)**.
 12. Noor Salehan Mohammad Sabli, Zainura Zainon Noor, **Kasturi A/P Kanniah**, Siti Nurhayati Kamaruddin, Nurfarhain Mohamed Rusli, 2017, Developing a methodology for water footprint of palm oil based on a methodological review, *Journal of Cleaner Production*, 146, 173–180, <http://dx.doi.org/10.1016/j.jclepro.2016.06.149>. • **Impact factor: 5.715 (Q1)**
 13. Nurul Hawani Idris, Mohamad Jahidi Osman, **Kasturi Devi Kanniah**, Nurul Hazrina Idris, and Mohamad Hafis Izran Ishak, 2016, Engaging Indigenous People as Geo-Crowdsourcing Sensors for Eco-Tourism Mapping via Mobile Data Collection: A Case Study of the Royal Belum State Park, *Cartography and Geographic Information Science*, 44 (2), 113-127, Special Issue on Crowdsourced Mapping (doi:10.1080/15230406.2016.1195285). **Impact factor: 2.391 (Q1)**
 14. Abd Rahman, M. Z., Abu Bakar, M. A., Razak, K. A., Rasib, A. W., **Kanniah, K. D.**, Wan Kadir, W. H., ... & Abd Latif, Z. (2017). Non-Destructive, Laser-Based Individual Tree Aboveground Biomass Estimation in a Tropical Rainforest. *Forests*, 8(3), 86. • **Impact factor: 1.951 (Q1)**
 15. Beringer, J., Hutley, L. B., McHugh, I., Arndt, S. K., Campbell, D., Cleugh, H. A., Cleverly, J., Resco de Dios, V., Eamus, D., Evans, B., Ewenz, C., Grace, P., Griebel, A., Haverd, V., Hinko-Najera, N., Huete, A., Isaac, P., **Kanniah, K.**, Leuning, R., Liddell, M. J., Macfarlane, C., Meyer, W., Moore, C., Pendall, E., Phillips, A., Phillips, R. L., Prober, S., Restrepo-Coupe, N., Rutledge, S., Schroder, I., Silberstein, R., Southall, P., Sun, M., Tapper, N. J., van Gorsel, E., Vote, C., Walker, J., and Wardlaw, T., 2016, An introduction to the Australian and New Zealand flux tower network – OzFlux, *Biogeosciences Discuss.*, 13, 5895-5916 doi:10.5194/bg- 2016-152. • **Impact factor: 3.978 (Q1)**
 16. Adab, H., **Kanniah, K.D.**, and Beringer, J., 2016, Estimating and Up-Scaling Fuel Moisture and Leaf Dry Matter Content of a Temperate Humid Forest Using Multi Resolution Remote Sensing Data, 2016, *Remote Sensing*, 8(11), 961; doi:[10.3390/rs8110961](https://doi.org/10.3390/rs8110961) • **Impact factor: 3.036 (Q1)**.
 17. **Kasturi Devi Kanniah**, Dimitris G. Kaskaoutis, Hwee San Lim, Mohd Talib Latif, Nurul Amalin Fatimah Kamarul Zaman and Juneng Liew, 2016, Overview of atmospheric aerosol studies in Malaysia: Known and unknown (Invited review article), *Atmospheric Research* 182 (2016) 302–318. **Impact factor: 3.377 (Q1)**.
 18. Kang, C.S., **Kanniah, K.D.**, Kerr Y.H., and Cracknell, A.P., 2016, Analysis of *in-situ* Soil Moisture Data and Validation of SMOS Soil Moisture Products at Selected Agricultural Sites over a Tropical Region, *International Journal of Remote Sensing*, 37, 3636-3654. **Impact factor: 1.652 (Q2)**
 19. **Kasturi Devi Kanniah**, Afsaneh Sheikhi, Arthur P. Cracknell, Hong Ching Goh, Kian Pang Tan, Chin Siong Ho, and Fateen Nabilla Rasli, 2015, Satellite Images for Monitoring Mangrove Cover Changes in a Fast Growing Economic Region in Southern Peninsular Malaysia, *Remote Sensing*, 7, 14360-14385; doi:10.3390/rs71114360. **Impact factor: 3.180 (Q1)**

20. Adab, H., **Kanniah, K.D** and Solaimani, K (2015), Modelling static fire hazard in a semi-arid region using frequency analysis, *International Journal of Wildland Fire*, 24, 763–777 (<http://dx.doi.org/10.1071/WF13113>). **Impact factor: 2.429 (Q1)**
21. Beringer, J, Hutley, LB, Abramson, D, Arndt, SK, Briggs, P, Bristow, M, Canadell, JG, Cernusak, LA, Eamus, D, Edwards, AC, Evans, BJ, Fest, B, Goergen, K, Grover, SP, Hacker, J, Haverd, V, **Kanniah, K**, Livesley, SJ, Lynch, A, Maier, S, Moore, C, Raupach, M, Russell-Smith, J, Scheiter, S, Tapper, NJ and Uotila, P (2015), Fire in Australian savannas: from leaf to landscape. *Global Change Biology*, 21: 62–81 doi: 10.1111/gcb.12686. **Impact factor: 8.044 (Q1)**
22. AP Cracknell, AP, **Kanniah, KD**, Tan, KP, Wang, L (2015), Towards the development of a regional version of MOD17 for the determination of gross and net primary productivity of oil palm trees, *International Journal of Remote Sensing*, Vol. 36 (1), 262-289. **Impact factor: 1.652 (Q2)**
23. Xuanlong Ma, Alfredo Huete, Qiang Yu, Natalia Restrepo-Coupe, Jason Beringer, Lindsay B. Hutley, **Kasturi Devi Kanniah** , James Cleverly , and Derek Eamus, (2014), Parameterization of an ecosystem light-use-efficiency model for predicting savanna GPP using MODIS EVI, *Remote Sensing of Environment*, 154 (2014) 253–271. **Impact factor: 6.393 (Q1)**
24. Tan, Kian Pang; **Kanniah, Kasturi Devi**; Cracknell, Arthur (2014), On the upstream inputs into the MODIS primary productivity products using biometric data from oil palm plantations- *International Journal of Remote Sensing* Volume 35 (issue 6), Pages 2215-2246. **Impact factor: 1.652 (Q2)**
25. **Kasturi Devi Kanniah**, Hui Qi Lim, Dimitris G. Kaskaoutis, Arthur P. Cracknell (2014) Investigating aerosol properties in Peninsular Malaysia via the synergy of satellite remote sensing and ground-based measurements, *Atmospheric Research*, Volume 138, Pages 223–239. **Impact factor: 2.844 (Q2)**
26. Hamed Adab, **Kasturi Devi Kanniah** and Karim Solaimani (2013) Modeling forest fire risk in the northeast of Iran using remote sensing and GIS techniques, *Natural Hazards*, Vol. 65, Issue 3, pp. 1723-1743 10.1007/s11069-012-0450-8. **Impact factor: 1.719 (Q2)**
27. **Kanniah, K.D.**, Beringer, J., Hutley, L.B (2013) Response of savanna gross primary productivity to inter-annual variability in rainfall: results of a remote sensing based light use efficiency model, *Progress in Physical Geography*, Vol. 37, Issue 5, pp 642-663. doi: 10.1177/0309133313490006. **Impact factor: 2.612 (Q1).**
28. **Kanniah, K.D.**, Beringer, J., Hutley, L.B (2013) Exploring the link between clouds, radiation, and canopy productivity of tropical savannas, *Agricultural and Forest Meteorology* (special issue on water and carbon coupling to honour Dr Ray Leuning), Volumes 182–183, 15 December 2013, Pages 304–313. **Impact factor: 3.762 (Q1)**
29. Arthur Philip Cracknell, **Kasturi Devi Kanniah**, Kian Pang Tan and Lei Wang, 2013, *Evaluation of MODIS gross primary productivity and land cover products for the humid tropics using oil palm trees in peninsular Malaysia and Google earth imagery*, *International Journal of Remote Sensing*, Vol. 34, Issue 20, pp. 7400-7423. **Impact factor: 1.652 (Q2).**
30. Kian Pang Tan, **Kasturi Devi Kanniah** and Arthur P. Cracknell, 2013, *Use of UK-DMC 2 and ALOS PALSAR for studying the age of oil palm trees in southern Peninsular Malaysia*, *International Journal of Remote Sensing*, Vol. 34, Issue 20, pp. 7424-7446. **Impact factor: 1.652 (Q2).**
31. **Kanniah, K.D.**, Beringer, J., Hutley, L.B (2012) Control of atmospheric particles on diffuse radiation and terrestrial plant productivity: a review, *Progress in Physical Geography*, Vol. 36 (2), pp. 210 – 238. **Impact factor: 2.612 (Q1).**
32. Tan K.P., **Kanniah, K.D.**, and Cracknell, A.P (2012) A review of remote sensing based productivity models and their suitability for studying oil palm productivity in tropical regions, *Progress in Physical Geography*, Vol. 39 (5), page 655-679. **Impact factor: 2.612 (Q1).**
33. Beringer, J., J. Hacker, L.B. Hutley, S.K. Arndt, R. Amiri, L. Bannehr, L.A Cernusak, S. Grover, C. Hensley, D.Hocking, P. Isaac, H. Jamali, **K. Kanniah**, R. Leuning, S. Livesley, B. Neiningner, K.T. Paw U, W. Sea, D. Stratten, N. Tapper, R. Weinmann, S. Wood and S. Zegelin. 2011."SPECIAL – Savanna Patterns of Energy and Carbon Integrated Across the Landscape.' *Bulletin of the American Meteorological Society* 92: 1467-1485. **Impact factor: 11.808 (Q1)**
34. **Kanniah, K.D.**, Beringer, J., Hutley, L.B (2011) Environmental controls on the spatial variability of savanna productivity in the Northern Territory, Australia, *Agricultural and Forest Meteorology* (Special Issue: Savanna Patterns of Energy and Carbon Integrated Across the Landscape (SPECIAL)), 151 (11), 1429–1439. **Impact factor: 3.762 (Q1)**
35. **Kanniah, K.D.**, Beringer, J., Hutley, L.B (2010) The comparative role of key environmental factors in determining savanna productivity and carbon fluxes: a review, with special reference to Northern Australia,

Progress in Physical Geography, 34 (4): 459 – 490, DOI: 10.1177/0309133310364933. **Impact factor: 2.612 (Q1).**

36. **Kanniah, K.**, Beringer, J., Tapper, N.J. and Long, C. (2010) Aerosols and their influence on radiation partitioning and productivity in northern Australia, *Theoretical and Applied Climatology*, 100(3-4): 423 – 438. DOI: 10.1007/s00704-009-0192-z. **Impact factor: 2.015 (Q2)**
37. **Kanniah, K.D.**, Beringer, J., Tapper, N.J., Hutley, L.B. and Zhu, X. (2009) Evaluation of Collections 4 and 5 of the MODIS Gross Primary Productivity product and algorithm improvement at a tropical savanna site in Northern Australia, *Remote Sensing of Environment*, 113(9): 1808-1822, doi:10.1016/j.rse.2009.04.013. **Impact factor: 6.393 (Q1)**
38. M. Hashim, **K.D. Kanniah**, A. Ahmad, A.W. Rasib and A.L Ibrahim, "The use of AVHRR data to determine the concentration of visible and invisible tropospheric pollutants originating from a 1997 forest fire in South East Asia", *International Journal of Remote Sensing*, Vol. 25, No.21, November 2004, pg. 4781-4794. **Impact factor: 1.652 (Q2).**

Scopus Cited

1. Rasli F.N., **Kanniah K.D.**, Ho C.S., 2019, Analysis of fragmented green spaces in kuala lumpur, malaysia, *Chemical Engineering Transactions*, 72, 457-462 DOI:10.3303/CET1972077
2. **Kasturi Devi Kanniah** and Ho Chin Siong, 2018, Tree Canopy Cover and Its Potential to Reduce Carbon Dioxide in South of Peninsular Malaysia, *Chemical Engineering Transactions*, Volume 63, pg 13-18 DOI: 10.3303/CET1863003.
3. Afsaneh Sheikhi and **Kasturi Devi Kanniah**, 2018, Impact of Land Cover Change on Urban Surface Temperature in Iskandar Malaysia, *Chemical Engineering Transactions*, Volume 63, pg 25-30, DOI: 10.3303/CET1863005.
4. Rohayu Abdullah, **Kasturi Devi Kanniah** and Ho Chin Siong, 2018, Identification of Suitable Trees for Urban Parks and Roadsides in Iskandar Malaysia, *Chemical Engineering Transactions*, Volume 63, pg 385-390, DOI: 10.3303/CET1863065.
5. Fateen Nabilla Rasli and **Kasturi Devi Kanniah**, 2018, Green Corridors for Livable and Walkable City: A Case of Kuala Lumpur, *Chemical Engineering Transactions*, Volume 63, pg 391-396, DOI: 10.3303/CET1863066.
6. Chong, K.L, Kanniah, K.D., Pohl, C., and Tan, K.P., 2017, A review of remote sensing applications for oil palm studies, *Geo-spatial Information Science (Special Issue: Perspectives on the Nature of Geo-Spatial Information. Guest Editor: Prof. Dr. J.L. van Genderen)* Vol.20 (2), 184-200.
7. **Kanniah K.D.**, Ho C.S., 2017, Urban forest cover change and sustainability of Malaysian cities, *Chemical Engineering Transactions*, 56, 673-678 DOI: 10.3303/CET1756113.
8. Mohamad Akhir S.S., **Kanniah K.D.**, 2017, Preliminary analysis of remote sensing technology in urban planning in Malaysia, *Chemical Engineering Transactions*, 56, 679-684 DOI:10.3303/CET1756114.
9. Kang, C. S., **Kanniah, K. D.** and Alvin Lau M. S., 2016, Microwave Remote Sensing for Soil Moisture Estimation in Tropical Regions – A Review and SMOS L2 Products Validation. *International Journal of Geoinformatics*, 12(2): 9-16.
10. Fateen Nabilla Rasli, **Kanniah, K.D.**, Chitrakala Muthuveerappan and Ho Chin Siong, 2016'' An Integrated Approach of Analytical Hierarchy Process and GIS for Site Selection of Urban Parks in Iskandar Malaysia, *International Journal of Geoinformatics*, 12(2): 67-77.
11. Chew, W. C., Lau, A. M. S., and **Kanniah, K. D.**, 2016, Multi-level Adaptive Support Vector Machine Classification for Tropical Tree Species, *International Journal of Geoinformatics*, 12(2): 17-26.
12. W. C. Chew, A. M. S. Lau, **K. D. Kanniah**, N. H. Idris, 2015, Spectral Variability Analysis of In-Situ Hyperspectral Remote Sensing at Leaf and Branch Scales for Tree Species at Tropical Urban Forest, *Jurnal Teknologi*, 73:5 (2015) 179–187
13. Nurliyana Izzati Ishak, Md Afif Abu Bakar, Muhammad Zulkarnain Abdul Rahman, Abd Wahid Rasib, **Kasturi Devi Kanniah**, Alvin Lau Meng Shin, Khamarrul Azahari Razak, 2015, Estimating single tree stem and branch biomass using terrestrial laser scanning, *Jurnal Teknologi*, 77:26 (2015) 59–67
14. **Kasturi Devi Kanniah**, Ng Su Wai, Alvin Lau Meng Shin and Abd.Wahid Rasib' "Per-pixel and sub-

pixel classifications of high resolution satellite data for mangrove species mapping”, *Applied GIS*, 3(8), 1-22 (August 2007) Monash University Press. ISSN 1832-5505, <http://www.appliedgis.net>

Refereed International Journal

1. Zen, I.S.; Bandi, M.; **Kanniah, K.D.**; Bakar, I.N.B.A.; Zakaria, R. Assessing the Operational Carbon at University. *Proceedings* 2018, 2, 1370. doi: 10.3390/proceedings2221370
2. Putri Ida Sunaryathy, Suhasman, **Kasturi Devi Kanniah**, Kian Pang Tan, 2015, Estimating Aboveground Biomass of Oil Palm Trees by Using the Destructive Method, *World Journal of Agricultural Research*, 2015, Vol. 3, No. 1, 17-19
3. **Kasturi Devi Kanniah** and D. John Prabakaran, “GIS for Visualizing Environmental Hazards”, *Geoinformation Science Journal*, Vol.4, Number 1, 2004, pg. 95-102.
4. **Kasturi Devi Kanniah** and Teh Poey Lee, “Tasseled Cap Transformation Coefficients using Tiungsat 1 for vegetation studies”, *Malaysian Journal of Remote Sensing & GIS*, Volume 3, July 2002, pg 63-71
5. **Kasturi Devi Kanniah**, “Temperature analysis of volcanic crater lake using Landsat Thematic Mapper”, *Malaysian Journal of Remote Sensing and GIS*, Vol. 2, July 2001 pg. 39-50
6. Mazlan Hashim, **Kasturi Devi Kanniah**, Asmala Ahmad and Abdul Wahid Rasib, “Remote Sensing of Tropospheric Pollutants Originating from 1997 Forest Fire in Southeast Asia”, *Asian Journal of Geoinformatics*, Vol.4 No.4, June 2004, pg.57-67.
7. D.John Prabakaran and **Kasturi Devi Kanniah**, “Volcano hazard management using digital elevation model”, *Asian Journal of Geoinformatics* Vol.1 No 4. June 2001, pg. 85-90.

Others

1. Cracknell, A.P., **Kanniah, K.D.**, and Tan, K.P., 2015, Remote Sensing and Oil Palms: A Virtual Special Issue on Remote Sensing and Oil Palms, *International Journal of Remote Sensing*, Available online at <http://explore.tandfonline.com/CONTENT/EST/TRES-OIL-PALMS-VSI>.
2. **Kasturi Devi Kanniah**, Mazlan Hashim and Mohd Ibrahim Seeni Mohd, “A systematic approach in remote sensing education and training at Universiti Teknologi Malaysia”, *GIS Development*, January, 2001, Vol.5 Issue 1, pg32-35 and 43.

MONOGRAPHS

1. Kasturi Devi Kanniah, Remote sensing for natural resources management, Part 1: Remote Sensing for Agricultural management (2001), Remote Sensing Department, Faculty of Geoinformation Science & Engineering, Universiti Teknologi Malaysia (in Malay language)

EXPERT/ POLICY REPORTS

1. Ho Chin Siong, Chau Loon Wai, Mlysha Nurshyla Abdul Rahim, Mohamad Zulikhram Zulibrahim, Muhammad Akmal Hakim Hishammuddin, Rohayu Abdullah, Nur Syazwani Saari, Nadzirah Jausus, Mohd Hamdan Ahmad, Lim Yaik Wah, Muhammad Zaly Shah Muhammad Hussein, Lee Chew Tin, Zainura Zainon Noor, Haslenda Hashim, Fatin Aliah Phang, **Kasturi Devi Kanniah**, Siti Hajar Misnan, Lim Jeng Shun, Ho Wai Shin, Choong Weng Wai, Gobi Krishna Sinniah, Gabriel Ling Hoh Teck, Terrayline Kating-Jouman, Mohd Razman Salim, Christopher Heng Yii Sern, , Lee Ming Kwee, Kang Chuen Siang, Liu Wen Hui, Chin Han Choong, Cassandra Bong Phun Chien, Mohd Najib Mohd, Sahrom Ujang, Nurazizi Mokhtar, Sulaiman Mohamed, Nik Mastura Diyana Nik Mohamad, Samsuddin Abd Kadir, Nor Hashida Harun, Bongsu Khairi Hashim, Nek Mah Basri, Yuzuru Matsuoka, Junichi Fujino, Tomoki Ehara, Yuki Ochi (2017), **70 By 30 : A Greener Better Kuala Lumpur - Kuala Lumpur Low Carbon Society Blueprint 2030** (Nov 2017).
2. Ho Chin Siong, Chau Loon Wai, Mlysha Nurshyla Abdul Rahim, Mohamad Zulikhram Zulibrahim, Muhammad Akmal Hakim Hishammuddin, Rohayu Abdullah, Nur Syazwani Saari, Nadzirah Jausus, Mohd Hamdan Ahmad, Lim Yaik Wah, Muhammad Zaly Shah Muhammad Hussein, Lee Chew Tin, Zainura Zainon Noor, Haslenda Hashim, Fatin Aliah Phang, **Kasturi Devi Kanniah**, Siti Hajar Misnan, Lim Jeng Shun, Ho Wai Shin, Choong Weng Wai, Gobi Krishna Sinniah, Gabriel Ling Hoh Teck, Terrayline Kating-

Jouman, Mohd Razman Salim, Christopher Heng Yii Sern, Cindy Lee Ik Sing, Lee Ming Kwee, Kang Chuen Siang, Liu Wen Hui, Chin Han Choong, Cassandra Bong Phun Chien, Mohd Najib Mohd, Sahrom Ujang, Nurazizi Mokhtar, Sulaiman Mohamed, Nik Mastura Diyana Nik Mohamad, Samsuddin Abd Kadir, Nor Hashida Harun, Bongsu Khairi Hashim, Nek Mah Basri, Yuzuru Matsuoka, Junichi Fujino, Tomoki Ehara, Yuki Ochi (2017), **70 By 30: A Greener Better Kuala Lumpur - Kuala Lumpur Low Carbon Society Blueprint 2030 Summary For Policymakers - 2nd Edition** (Aug 2017).

3. 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), *Deliberation and Improvement of EPI for Betterment of Environmental Management*, UTM
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 Ting, Nawal Shaharuddin, Mohd Rashid Mohd Yusof, Muhammad Zaly Shah Muhammad Hussein, Gobi Krishna Sinniah, Afsaneh Afzali, Nurain Mohd Sith, Yuzuru Matsuoka, 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 (2012), **Development of Low Carbon Society Scenarios for Asian Region: Summary for Policy Makers: Low Carbon Society Blueprint for Iskandar Malaysia 2025** (Nov 2012) pp.42
5. Ho Chin Siong, Zaini Ujang, Mohd Azraai Kassim, Ismail Ibrahim, Boyd Dionysius Joeman, Yuzuru Matsuoka, Takeshi Fujiwara, Junichi Fujino, Mikiko Kainuma, Chau Loon Wai, Kei Gomi, Teh Bor Tsong, S. Yasmin Sofia Hussain, Ahmad Nazri Muhammad Ludin, Mohd Hamdan Ahmad, Ibrahim Ngah, Mohammad Rafee Majid, Muhammad Zaly Shah Muhammad Hussein, **Kasturi Devi Kanniah**, Fatin Aliah Phang Abdullah, Haslenda Hashim, Zainura Zainon Noor, Lee Chew Tin, Mohd Razman Salim, Gakuji Kurata, Shuichi Ashina, Diego Silva Herran, Janice Jeevamalar Simson, Gobi Krishna Sinniah, Reina Kawase, Maiko Suda, Miho Kamei, Abdul Rahim Ramli, Azilah Mohamed Akil, Tan Sie Ting, Muhamad Azahar Zikri Zahari, Siti Nadzirah Othman, Wong Wai Yoke, Anis Syahira Zulkifli, Kang Chuen Siang, Malik Tassaduq Abbas, Lim Jeng Shun, Nawal Shaharuddin, Nurain Mohd Sith, Ho Wai Shin, Yuri Hayashi, Guo Minna, Siti Norbaizura Md. Rezab, Tomohito Hamada, Hiroaki Obayashi (2013), *Development of Low Carbon Society Scenarios for Asian Region: Full Report: Low Carbon Society Blueprint for Iskandar Malaysia 2025* (Nov 2013) pp.253.
6. Wahid Omar, Mohd Azraai Kassim, Ho Chin Siong, Koichi Okabe, Yuzuru Matsuoka, Takeshi Fujiwara, Junichi Fujino, Roslan Amirudin, Mohd Ismail Abd Aziz, Mohd. Hamdan Ahmad, Ahmad Nazri Muhammad Ludin, Ibrahim Ngah, **Kasturi Devi Kanniah**, Irina Safitri Zen, Chau Loon Wai, Teh Bor Tsong, Azilah Mohamed Akil, Abdul Rahim Ramli, Anis Syahira Zulkifli, Kang Chuen Siang, Yasmin Sofia Hussain, Nadzirah Jausus, Boyd Dionysius Joeman, Sharifah Shahidah Syed Ahmad, Choo Hui Hong, Reina Kawase, Kei Gomi, Miho Kamei, Fatin Aliah Phang Abdullah, Wong Wai Yoke, Isma Ezwan Safri, Maiko Suda, Haslenda Hashim, Ho Wai Shin, Lim Jeng Shiun, Shuichi Ashina, Diego Silva Herran, Zainura Zainon Noor, Lee Chew Tin, Mohd Razman Salim, Siti Nadzirah Othman, Tan Sie Ting, Nawal Shaharuddin, Fatimah Zainal Abidin, Cindy Lee Ik Sing, Muhammad Fadly Muhammad Nor, Siti Norbaizura Md. Rejab, Yasuhito Yoneda, Daiki Asano, Mohammad Rafee Majid, Muhammad Zaly Shah Muhammad Hussein, Gobi Krishna Sinniah, Muhamad Azahar Zikri Zahari, Suhaimi Sapar, Kamisah Mohd Gazali, Gakuji Kurata (2014), **Development of Low Carbon Society Scenarios for Asian Region: Summary for Policy Makers: Low Carbon Society Blueprint for Iskandar Malaysia 2025** (Third Edition, Nov 2014) pp.44
7. **Kasturi Devi Kanniah**, (2011), *Worldview-2 remote sensing data for tropical mangrove species*

classification, Report submitted to DigitalGlobe® Incorporated, USA for the WorldView-2, 8-Bands Research Challenge (Report)

CONFERENCE PAPERS

ISI Cited

1. Christine Pohl, **Kasturi Devi Kanniah**, and Chong Khai Loong, 2016, Monitoring oil palm plantations in Malaysia, *IEEE International Geoscience & Remote Sensing Symposium*, July 10-15, Beijing, China, page 2556-2559, DOI: 10.1109/IGARSS.2016.7729660
2. **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.
3. 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.
4. **KD Kanniah**, KP Tan, AP Cracknell, 2014, Estimating primary productivity of tropical oil palm in Malaysia using remote sensing technique and ancillary data, SPIE Remote Sensing (International Society for Optics and Photonics), 92391K-92391K-8
5. **KD Kanniah**, Nurul Amalin Fatimah Kamarul Zaman, HQ Lim, Mohd Nadzri Md Reba, 2014, Monitoring particulate matters in urban areas in Malaysia using remote sensing and ground-based measurements, SPIE Remote Sensing (International Society for Optics and Photonics), 92420J-92420J-9
6. 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, page 1827-1830.
7. 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, page 2141- 2144.
8. 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, page 3730-3733.
9. **Kasturi Devi Kanniah**, Kian Pang Tan and Cracknell,A.P, 2012, UK DMC-2 satellite data for deriving biophysical parameters of oil palm trees in Malaysia, 2011 *IEEE International Geoscience & Remote Sensing Symposium*, July 22-27, 2012, Munich, Germany, page 6569-6572.
10. Hamed Adab, **Kasturi D. Kanniah** ,and Karim Solaimani, 2011, GIS-based Probability Assessment of Fire Risk in Grassland and Forested Landscapes of Golestan Province, Iran, *International Conference on Environmental and Computer Science IPCBEE* vol.19(2011), pages 170-175, © (201), IACSIT Press, Singapore.
11. Tan, K.P., **Kanniah, K.D.**, Busu, I., and Cracknell,A.P, 2011, Evaluation of MODIS Gross Primary Productivity of tropical oil palm in southern Peninsular Malaysia, 2011 *IEEE International Geoscience & Remote Sensing Symposium*, July 24-29, 2011, Vancouver, Canada, page 756-759.

SCOPUS Cited

1. Zaman, N.A.F.K., **Kanniah, K.D.** and Kaskaoutis, D.G., 2018, June. Satellite data for upscaling urban air pollution in Malaysia. In IOP Conference Series: Earth and Environmental Science (Vol. 169, No. 1, p. 012036). IOP Publishing.
2. **Kanniah, K.D.**, and Ng S.W., 2017, Remote Sensing (small) Satellites of Malaysia: Past experience and Future Direction, 38th Asian Conference on Remote Sensing (ACRS) on New Delhi India, 23-27 October 2017
3. **Kanniah, K.D.**, 2017, Extraction and assessment of Urban Tree Cover in Malaysia using Multi Resolution Remote Sensing Data, presented in 38th Asian Conference on Remote Sensing (ACRS) on New Delhi India, 23-27 October 2017
4. **Kanniah, K.D.**, Najib, and Vu, T.T., 2016, Forest Cover Mapping in Iskandar Malaysia using Satellite Data, The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XLII-4/W1, 2016, Page 69-74, doi:10.5194/isprs-archives-XLII-4-W1-71-2016
5. Peters, S., **Kanniah, K. D.** and Rahman, A.A., 2015, Geoinformation postgraduate education at Universiti Teknologi Malaysia - towards a centre of high quality postgraduate education and research, The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XL-2/W4, 2015 Joint International Geoinformation Conference 2015, 28–30 October 2015, Kuala Lumpur, Malaysia, 67-70.
6. **Kasturi Devi Kanniah**, Hou Lee Ping and Alvin Lau Meng Shin, 2013, Mapping mangrove species using worldview-2 Satellite data, 34th Asian Conference on Remote Sensing, Bali, Indonesia, 20-24 October 2013, pg SC04-166-172.
7. **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. IOP Conf. Series: Earth and Environmental Science 18, 012151.
8. **K D Kanniah**, A sheikhi and C S Kang, 2013, Exploring The Role Of Green And Blue Infrastructure In Reducing Temperature In Iskandar Malaysia, International Symposium on Digital Earth, 26-29 August 2013, Kuching, Sarawak, Malaysia. IOP Conf. Series: Earth and Environmental Science 18, 012151.
9. S T Tan, H Hashim, C T Lee, J S Lim, **K D Kanniah**, 2013, Optimal Waste-To-Energy Strategy Assisted By Gis For Sustainable Solid Waste Management, International Symposium on Digital Earth, 26-29 August 2013, Kuching, Sarawak, Malaysia. IOP Conf. Series: Earth and Environmental Science 18, 012159.
10. E C Yeap, Alvin M S Lau, Ibrahim Bin Busu, **Kasturi Devi Kanniah**, Abd Wahid Rasib and Wan Hazli Wan Kadir, 2013, Development Of Local Atmospheric Model For Estimating Solar Irradiance In Peninsular Malaysia, International Symposium on Digital Earth, 26-29 August 2013, Kuching, Sarawak, Malaysia. IOP Conf. Series: Earth and Environmental Science 18, 012103.
11. 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. IOP Conf. Series: Earth and Environmental Science 18, 012069.
12. Hui Qi Lim, **Kasturi Devi Kanniah**, Alvin Meng Shin Lau, 2013, Retrieval Of Aerosol Optical Depth Over Urban Areas In Malaysia, International Symposium on Digital Earth, 26-29 August 2013, Kuching, Sarawak, Malaysia. IOP Conf. Series: Earth and Environmental Science 18 , 012085.
13. Nor Syazwani Mat Nor, Abd Wahid Rasib, Abdul Razak Mohd Yusoff, Alvin Lau Meng Shin, Wan Hazli Wan Kadir, Shahabudin Amerudin, Mohammad Zulkarnain Abd Rahman, **Kasturi Devi Kanniah** and Tam Tze Huey, 2013, Estimation Of Ocean Primary Production Using MODIS Satellite Data In Straits of Malacca, 34th Asian Conference on Remote Sensing, Bali, Indonesia, 20-24 October 2013, pg SC04 – 765- 772..
14. Hamed Adab, **Kasturi D. Kanniah** and Karim Solaimani, 2011, "Forest Fire Hazard Zone Mapping Using Structural Fire Index: A Case Study". 32 *Asian Conference on Remote Sensing (ACRS2011)*, Taiwan, October 3-7, 2011, Volume 3. Page 1678-1684 (ISBN: 978-1-61839-497-2).
15. **Kasturi Devi Kanniah** and Khoo Kian Hong, "Timber volume estimation using Landsat ETM+ Imagery", 25th *Asian Conference on Remote Sensing Proceeding*, Chiang Mai, Thailand, 22-26 Nov. 2004, pg. 697-703.
16. **K. D. Kanniah**, T. P. Lee, M. Hashim, "Capability of the first Malaysian micro satellite -TiungSat-1 MSEIS

(Multi Spectral Earth Imaging System) for vegetation studies," Proceedings of 23rd ACRS (Asian Conference on Remote Sensing), Nov. 25-29, 2002, Kathmandu, Nepal.

17. **Kasturi Devi Kanniah**, Mazlan Hashim and Mohd Ibrahim Seenii Mohd, "Remote sensing: an environmentally friendly tool to enhance environmental education at the Department of Remote Sensing", Universiti Teknologi Malaysia, 22nd *Asian Conference on Remote Sensing Proceeding*, Singapore, 5-9 Nov 2001.
18. 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", 21st *Asian Conference on Remote Sensing Proceeding*, Vol. 1, pg 1006-1011, Taiwan, 4-8 Dec, 2000.
19. D. John Prabakaran and **Kasturi Devi Kanniah**, "Volcano Hazard Management using Digital Elevation Model", 21st *Asian Conference on Remote Sensing Proceeding*, Vol. 1, pg 1148-1154, Taiwan, 4-8 Dec, 2000.
20. **Kasturi Devi Kanniah**, Mazlan Hashim and Mohd Ibrahim Seenii Mohd, "A systematic Approach in Remote Sensing Education and Training at Universiti Teknologi Malaysia", 21st *Asian Conference on Remote Sensing Proceeding*, Vol. 1, pg 1036-1041, Taiwan, 4-8 Dec, 2000.

Other Proceedings

1. Cracknell, A. P., **Kanniah, K. D.** and Tan, K. P. (2013). The use of oil palm estates in Peninsular Malaysia for the validation of MODIS gross primary productivity (GPP) and net primary productivity (NPP) for the humid tropics. In: Proceedings of the Remote Sensing and Photogrammetric Society Conference 2013 on Earth Observation for Problem Solving, 4-6 September 2013, Scotland, UK.
2. **Kanniah, K. D.**, Tan, K. P. and Cracknell, A. P. (2013). The use of radar ALOS PALSAR and the prospective use of airborne Lidar for studying the age of oil palm trees. In *Seminar on Advanced Active Remote Sensing (SAARS 2013)*, 11-13 June 2013, Kuala Lumpur, Malaysia (Abstract).
3. Hamed Adab, **Kasturi D. Kanniah** and Karim Solaimani, 2012, "Role of Physiographic and Anthropogenic Factors in Forest Fire", 6th *International Symposium on Advance in Science and Technology (SASTech) 2012 Malaysia*, 24 - 25 March 2012, page 5.
4. **Kasturi Devi Kanniah**, Jason Beringer, and Lindsay Hutley, 2011, "Modelling Gross Primary Productivity of Savanna Vegetation in northern Australia using MODIS data", 34th *International Symposium on Remote Sensing of Environment*, Sydney Convention and Exhibition Centre, 10-15 April 2011.
5. **Kasturi Devi Kanniah**, Jason Beringer, and Lindsay Hutley 2011, "Relationship between clouds, radiation and canopy productivity in savannas, Proceedings of AsiaFlux 2011: Bridging ecosystem science to services and stewardship, pg 14 (Abstract).
6. **Kasturi Devi Kanniah** and Norbaizura Yaso, 2010, "Preliminary assessment of the impact of atmospheric aerosols on climate change in Peninsular Malaysia, *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Science*, Volume XXXVIII, Part 8, Pages 386-391, Kyoto Japan 2010 (Refereed Proceeding)
7. **Kasturi Devi Kanniah**, Jason Beringer and Lindsay Hutley, 2010, Analysis of the spatial and temporal variability of savanna productivity in the Northern Territory, Australia using MODIS data, *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Science*, Volume XXXVIII, Part 8, Pages 553-558, Kyoto Japan 2010 (Refereed Proceeding).
8. Beringer J, Hacker J, Hutley L B, Leuning R, Arndt S K, Amiri R, Bannehr L, Cernusak L A, Grover S, Hensley C, Hocking D J, Isaac P R, Jamali H, **Kanniah K**, Livesley S, Neininger B, Paw U K, Sea W B, Straten D, Tapper N J, Weinmann R A, Wood S, Zegelin S J (2010) SPECIAL - The Savanna Patterns of Energy and Carbon Integrated Across the Landscape campaign, American Geophysical Union (AGU) Fall Meeting, 13 - 17 December, San Francisco, USA
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
10. Hashim, Mazlan and Seenii Mohd, Mohd Ibrahim and **Kanniah, Kasturi**, 2002, *Remote Sensing Education in Malaysia: A systematic approach at Universiti Teknologi Malaysia*. In: FIG XXII International Congress,

April 19-26 2002, Washington, D.C. USA, page 1-13.

11. **K.D. Kanniah** and M. Hashim, "A systematic approach in remote sensing education and training in Malaysia with special reference to Universiti Teknologi Malaysia", International Archives of Photogrammetry and Remote Sensing, Vol. XXXIII, Part B6, Commission VI, pp 153-163, Amsterdam (16-23 July) 2000 (Refereed Proceeding)

Resource person for short Course or Training

1. 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
2. Fasilitator for "Retreat Master Plan KL Low Carbon Society Blueprint 2030" – 18-19 Jan 2018, Seri Pacific Hotel, Kuala Lumpur
3. 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
4. Fasilitator for "KL Low Carbon Society Blueprint 2030" – 31 July 2017
5. MyTREE summer school 2016 (First Session), "Accelerating Green Development in Asia", organized by UTM- Low Carbon Asia Research Centre, 17-29 July 2016.
6. MyTREE summer school 2016 (Second Session), "Accelerating Green Development in Asia", organized by UTM- Low Carbon Asia Research Centre, 28 Aug-8 Sept 2016.
7. Speaker for module "Publishing for Graduation" - Supervisory Orientation Course (AS 102) to lecturers from Faculty of Geoinformation & Real Estate-24 February 2016
8. Speaker for "Indexed Journal Publication Workshop" Organised by Faculty of Geoinformation & Real Estate, 15 August 2016
9. Speaker for "Publishing in high Impact factor Journal- Structured course organized by the Postgraduate Students Society, Faculty of Geoinformation & Real Estate, 13 December 2016
10. Facilitator for "Kuala Lumpur Low Carbon Society Blueprint 2030" workshop, 22-23 August 2016, DBKL, Kuala Lumpur
11. Training/Knowledge sharing with Malaysian Palm Oil Board on biomass/carbon stock mapping of oil palm, 15-17 February 2016 at UTM.
12. Facilitator for First Focus Group Discussion on Low Carbon Society for Pasir Gudang, 10 March 2015, Convention Hall, Built Environment Faculty, UTM.
13. 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.
14. Facilitator for "Environmental Performance Index (EPI) workshop, 12 October 2015, Horizon Hotel, Kota Kinabalu, Sabah
15. Facilitator for "Environmental Performance Index (EPI) workshop, 13 October 2015, Hotel Grand Marghareta, Kuching, Sarawak
16. Facilitator for "Environmental Performance Index (EPI) workshop, 18 August 2015, Auditoriam Ishak Pateh Akhir, Sains @ USM, Bayan Lepas, Penang
17. Speaker for "Publishing in Reputable Journals' for postgraduate students from Universiti Teknologi Malaysia-15 April 2014
18. 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.
19. 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.
20. 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**, 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.
2. **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.
3. **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.
4. **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
5. **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 9th 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
6. **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
7. **Kasturi Devi Kanniah** and Ng Su Wai, 2017, Remote Sensing (small) Satellites of Malaysia: Past experience and Future Direction, presented in 38th Asian Conference on Remote Sensing (ACRS), 23-27 October 2017, Hotel The Ashok, New Delhi India (Poster)
8. **Kasturi Devi Kanniah**, 2017, Extraction and assessment of Urban Tree Cover in Malaysia using Multi Resolution Remote Sensing Data, presented in 38th Asian Conference on Remote Sensing (ACRS), 23-27 October 2017, Hotel The Ashok, New Delhi India
9. 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
10. **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, Philipphines
11. **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)
12. **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
13. Siti Shazwani Mohamad AKNir 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
14. **Kasturi D. Kanniah**, 2016, Multi-sensor satellite data for carbon storage mapping of green space in a fast growing development corridor in Malaysia, 37th Asian Conference on Remote Sensing (ACRS), 17 to 21 October 2016, Colombia, Sri Lanka.
15. Nurul Amalin Fatimah Kamarul Zaman and **Kasturi Devi Kanniah**, 2016, Estimation of particulate matter using remote sensing data in Selangor, Malaysia, 37th Asian Conference on Remote Sensing (ACRS), 17 to 21 October 2016, Colombia, Sri Lanka (Poster Presentation)
16. Chong Khai Loong, **Kasturi Devi Kanniah** and Christine Pohl, 2016, Oil palm tree height estimation using InSAR, 37th Asian Conference on Remote Sensing (ACRS), 17 to 21 October 2016, Colombia, Sri Lanka (Poster Presentation)

17. **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.
18. 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.
19. **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.
20. **K D Kanniah**, A sheikhi and C S Kang, 2013, Exploring The Role Of Green And Blue Infrastructure In Reducing Temperature In Iskandar Malaysia, International Symposium on Digital Earth, 26-29 August 2013, Kuching, Sarawak, Malaysia.
21. S T Tan, H Hashim, C T Lee, J S Lim, **K D Kanniah**, 2013, Optimal Waste-To-Energy Strategy Assisted By Gis For Sustainable Solid Waste Management, International Symposium on Digital Earth, 26-29 August 2013, Kuching, Sarawak, Malaysia.
22. E C Yeap, Alvin M S Lau, Ibrahim Bin Busu, **Kasturi Devi Kanniah**, Abd Wahid Rasib and Wan Hazli Wan Kadir, 2013, Development Of Local Atmospheric Model For Estimating Solar Irradiance In Peninsular Malaysia, International Symposium on Digital Earth, 26-29 August 2013, Kuching, Sarawak, Malaysia.
23. 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.
24. Hui Qi Lim, **Kasturi Devi Kanniah**, Alvin Meng Shin Lau, 2013, Retrieval Of Aerosol Optical Depth Over Urban Areas In Malaysia, International Symposium on Digital Earth, 26-29 August 2013, Kuching, Sarawak, Malaysia.
25. 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.
26. 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.
27. 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.
28. Arthur Philip Cracknell, **Kasturi Devi Kanniah** and Kian Pang Tan, 2013, The Use of Oil Palm Estates in Peninsular Malaysia for the Validation of MODIS Gross Primary Productivity (GPP) and Net Primary Productivity (NPP) for the Humid Tropics", nab Remote Sensing and Photogrammetry Society 2013 Annual Conference, Earth Observation for Problem Solving, 4-6 September 2013, Hilton Hotel Glasgow.
29. **Kanniah, K. D.**, Tan, K. P. and Cracknell, A. P. (2013). The use of radar ALOS PALSAR and the prospective use of airborne lidar for studying the age of oil palm trees. In: Seminar on Advanced Active Remote Sensing (SAARS 2013), 11-13 June 2013, Kuala Lumpur, Malaysia.
30. 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, page 1827-1830 (ISI Cited)
31. 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, page 2141- 2144 (ISI Cited)
32. 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, page 3730-3733 (ISI Cited)
33. Beringer J, Hutley L B, Hacker J, Leuning R, Arndt S, Amiri R, Bannehr L, Cernusak L A, Grover S, Hensley C, Hocking D J, Isaac P R, Jamali H, **Kanniah K**, Livesley S, Neininger B, Paw U K T, Sea W B, Straten D, Tapper N J, Weinmann R A, Wood S & Zegelin S J. (2012) SPECIAL – The Savanna Patterns of Energy and Carbon Integrated Across the Landscape campaign, ESA Annual Meeting 2012, Portland, USA, 5 – 10 August 2012.
34. Beringer J, Hacker J, Hutley L B, Leuning R, Arndt S K, Amiri R, Bannehr L, Cernusak L A, Grover S, Hensley C, Hocking D J, Isaac P R, Jamali H, **Kanniah K**, Livesley S, Neininger B, Paw U K, Sea W B, Straten D, Tapper N J, Weinmann R A, Wood S & Zegelin S J. (2011) SPECIAL – The Savanna Patterns of

Energy and Carbon Integrated Across the Landscape campaign, OzFlux Meeting, 13 – 15 June 2011, Perth.

35. **Kasturi Devi Kanniah**, Jason Beringer, and Lindsay Hutley 2011, "Relationship between clouds, radiation and canopy productivity in savannas, AsiaFlux 2011: Bridging ecosystem science to services and stewardship, November 9-11, 2011, Universiti Teknologi Malaysia, Johor, Malaysia.
36. Beringer J, Hacker J, Hutley L B, Leuning R, Arndt S K, Amiri R, Bannehr L, Cernusak L A, Grover S, Hensley C, Hocking D J, Isaac P R, Jamali H, **Kanniah K**, Livesley S, Neininger B, Paw U K, Sea W B, Straten D, Tapper N J, Weinmann R A, Wood S & Zegelin S J. (2011) SPECIAL - The Savanna Patterns of Energy and Carbon Integrated Across the Landscape campaign, OzFlux Meeting, 13 - 15 June 2011, Perth.
37. **Kasturi Devi Kanniah**, Jason Beringer, and Lindsay Hutley, 2011, "Modelling Gross Primary Productivity of Savanna Vegetation in northern Australia using MODIS data", 34th International Symposium on Remote Sensing of Environment, Sydney Convention and Exhibition Centre, 10- 15 April 2011.
38. Beringer J, Hacker J, Hutley L B, Leuning R, Arndt S K, Amiri R, Bannehr L, Cernusak L A, Grover S, Hensley C, Hocking D J, Isaac P R, Jamali H, **Kanniah K**, Livesley S, Neininger B, Paw U K, Sea W B, Straten D, Tapper N J, Weinmann R A, Wood S, Zegelin S J (2010) SPECIAL - The Savanna Patterns of Energy and Carbon Integrated Across the Landscape campaign, American Geophysical Union Fall Meeting, 13 - 17 December, San Francisco, USA.
39. **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.
40. **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.
41. 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.
42. **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
43. 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.
44. 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?*, *Combio, Invited speaker - Ecophysiology session*, Sydney convention and exhibition centre, September 22-26, 2007
45. **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
46. **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.
47. **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.
48. **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.
49. **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.
50. **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

51. **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, 22nd *Asian Conference on Remote Sensing Proceeding*, Singapore, 5-9 Nov. 2001
52. **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 Expert Speaker on "Application of GIS/remote sensing technologies in environmental and natural resources" at 6th 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.
2. Invited Speaker for RCE Iskandar Sustainable & Low Carbon Schools Exhibition 2018. 8 August 2018, Sutera Mall, Johor Bahru.
3. 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) in conjunction with South/Southeast Asia Research Initiative (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
4. Keynote Speaker for International Conference on Geo-spatial Technology for Natural Resource Management & Climate Change, 22 December 2017, Rajendranagar Hyderabad India
5. Keynote Speaker for International Conference of Low Carbon Asia and Beyond (ICLCA), 2 November 2017, Century Park Hotel, Bangkok, Thailand
6. Guest Lecturer for International Conference on Geo-spatial Technology for Natural Resource Management & Climate Change, 22 December 2017, Rajendranagar Hyderabad India
7. Invited Speaker for RCE Iskandar Sustainable & Low Carbon Society Exhibition 2017 organized by Iskandar Regional Development Authority (IRDA) – 19 July 2017
8. Invited Speaker for Cornerstone Community in Cambridge, USA- "Community Life Presents: 29 May 2017
9. 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
10. 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.
11. Fully funded invitation for Forum/Meeting- Building Academic Community In Geography/Geoinformatics In Asean 2016 (1-5 August 2016)
12. 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)
13. 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).
14. Fully funded invitation for Forum/Meeting- Building Academic Community In Geography/Geoinformatics In Asean 2015 (3-7 August 2015)

15. 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.
16. 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. Chairman for a technical session of the International Conference on Sustainable Development, 11 to 15 April 2018 at President Hotel, Athens, Greece
2. Chairman of technical sessions (special sessions on “Geospatial technologies for sustainable development of oil palm industry”) in the 9th 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
3. Session co-chair International Conference on Geo-spatial Technologies for Natural Resource Management & Climate change, 21-22 December 2017, Hydrabad India
4. 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 | 14 |
| 2 | Remote Sensing Q1; IF= 3.18 | 13 |
| 3 | Journal of Applied Remote Sensing Q3; IF= 1.183 | 5 |
| 4 | PLOS ONE: Q1; IF=3.234 | 3 |
| 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 | 2 |
| 7 | Journal of Tropical Forest Science Q3; IF=0.586 | 2 |
| 8 | Remote Sensing of Environment Q1;IF=6.393 | 2 |
| 10 | Agriculture Ecosystems & Environment Q1; IF=3.402 | 1 |
| 11 | Environmental Pollution Q1; IF= 4.143 | 1 |
| 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 | 1 |
| 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 | 3 |
| 22 | Environmental Science & Technology Q1, IF = 6.96 | 2 |
| 24 | Journal of Cleaner Production Q1; IF = 5.715 | 1 |
| 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 |

Indexed Journal Reviewer (SCOPUS)

| No | Journal | Frequency |
|----|--|-----------|
| 1 | International Journal of Geoinformatics | 4 |
| 2 | International Journal of Atmospheric Sciences | 1 |
| 3 | Jurnal Teknologi | 1 |
| 4 | 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 |

Research Proposals

1. Fundamental Research Grants Scheme by the Ministry of Higher Education Malaysia- Internal reviewer (2015- 2016) Research University Grants by UTM (2015-2016)
2. Sciencefund research proposal by the Ministry of Science and Technology Malaysia- Internal reviewer (2016)
3. Research proposal for National Research Foundation-South Africa (2011)

Conference papers

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

COURSES ATTENDED/ CAPACITY BUILDING

1. Human Governance, 17-18 Oct 2018, Higher Education Leadership Academy (AKEPT) Ministry of Education Malaysia.
2. 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.
3. Internal Auditor Course, 27-28 June 2016, Pusat Latihan UTM
4. A-LTC (AKEPT Learning and Teaching Circle) in Student Supervision Level 1 on 16-18 November 2015 at AKEPT Campus Bandar Enstek, Malaysia.
5. "Turnaround Leadership For Higher Education Institutions" course, 28 September 2015 at Bilik Jamuan Dewan Sultan Iskandar-Organised by Pusat Kepimpinan Akademik (UTMLead)
6. Academic Leadership Discourse (Wacana Kepimpinan Akademik) on 8 September 2015, at Dewan Kuliah UTMLead. –Organised by Pusat Kepimpinan Akademik (UTMLead)
7. Worldview knowledge, framework civilization & the development of a holistic personality (11-12 Nov 2013), UTM- Organised by Universiti Teknologi Malaysia.
8. Wildlife Conservation Awareness Day, (2 April 2013) Johor Bahru- Organised by Johor Corporation & Universiti Teknologi Malaysia
9. 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
10. Eddy Covariance Training Course, 12-13 Nov 2011 organised by LI-COR Biosciences, Nebraska at UTM Skudai.
 11. 'Marketing Team- UTM Staff' course, 17 Jan 2011at Pulau Springs Resort, Johor.
 12. Creative Problem Solving and Innovative Thinking Workshop- 25-27 July 2000- conducted by Business and Advanced Technology Centre UTM, KL
 13. E-Learning Basic Course, 4-5 Feb 2009, UTM Skudai
 14. Internet Technology in Teaching and Learning Course - 24-25 Feb 2009, Centre for Teaching & Learning, UTM Skudai
 15. Kursus Kenegaraan Sistem Saraan Malaysia PTK 1- 7-11 April 2005, Organised by National Civics Bureau, Department of Prime Minister.
 16. Use of E-Learning software for Academic Staff (Lecturers Teaching Year 1 Subjects) - 2-3 Nov 2004, UTM Skudai
 17. Preparation of Quality Assurance Document Workshop -24-26 May 2004- Palm Resort Golf and Country Club, Senai, Johor
 18. Induction Course -19 May-6 June 2003, UTM Johor
 19. Academic Advising Course -19-20 Feb 2003- Starhill Golf & Country Club JB
 20. Making and Evaluation of Test/Examination Questions Course - 4 July 2001- UTM skudai

CORPORATE/ SOCIAL RESPONSIBILITIES

1. Member of MyTreeevolution (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)
2. Fasilitator 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
3. Involved in Tree Planting at Ladang UPM Serdang, under the CEO @ Faculty Programme 2.0, 10 December 2017
4. Focus group discussion DBKL 2016
5. Focus group discussion Pasir Gudang Municipalities 2015
6. Participation in National Sport Day 2016 at SMK Indahpura on 8th of August 2016
7. Committee member of "Transforming Geospatial Technology across community" (Geoscience Education to Schools)"Programme- 11 May 2016
8. Knowledge sharing with Malaysian Palm Oil Board on biomass/carbon stock mapping of oil palm, 15-17 February 2016 at UTM.
9. 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.
10. 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.
11. 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
12. 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).
13. 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
14. 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**
Faculty of Built Environment & Surveying, Universiti Teknologi Malaysia
81310 Johor Bahru Tel: 019-7228451
Email: b-hamdan@utm.my
2. **Professor Dr. Jason Beringer School of Geography & Environmental Science**
School of Agriculture and Environment, Faculty of Science
The University of Western Australia (M004)
35 Stirling Highway, 6009 Perth, Australia
Email: jason.beringer@uwa.edu.au
3. **Professor Emeritus Dr. Arthur P. Cracknell**
Dundee University, Scotland Flat 8, 97 East London Street, Edinburgh EH7 4BF, Scotland, UK
Tel: 44 7810 697298
Email: apcracknell774787@yahoo.co.uk