Curriculum Vitae

1. Family name: Jaya
2. First names: I Nengah Surati
3. Date of birth: 09.09.1961
4. Nationality: Indonesia
5. Occupation: Permanent Professor at the Lab. of Forest Resources Inventory (Remote sensing and GIS approaches)

   Affiliation: Fac of Forestry and Environmental, IPB-University. Kampus IPB Darmaga Bogor

6. Education:

Institution	**Niigata University, Japan Graduate School of Environmental & Technology**
Date: from (month/year) to (month/year)	**March 1993** - March 1996
Degree(s) or Diploma(s) obtained	PhD Degree in Remote Sensing
Institution	**Niigata University, Japan Graduate School of Environmental Science & Technology**
Date: from (month/year) to (month/year)	March 1991 - March 1993
Degree(s) or Diploma(s) obtained	Master of Agriculture (MAgr)
Institution	**Niigata University, Japan Graduate School of Environmental Science & Technology**
Date: from (month/year) to (month/year)	September 1990 - March 1993
Degree(s) or Diploma(s) obtained	Cerfificate as research student on tropical Forestry (MAgr)
Institution	**IPB-University Faculty of Forestry**
Date: from (month/year) to (month/year)	March 1980 - March 1985
Degree(s) or Diploma(s) obtained	Bachelor in Forestry

7. Membership of professional bodies:

Indonesia Professional Engineer, since 2017
American Soc of Photogrammetry & Remote Sening 1996 - 2001
Indonesian Remote Sensing Society: 1996 - up to now
Reviewer on Indonesia Aeronautic and Aerospace Agency

8. Other skills: n/a

9. Present position: Laboratory of Forest Resource Inventory since 2000
Permanent Professor of IPB University, since 2007
Head of Forestry Planning Division, since 2017

10. Years within the firm: **38** years, since 1986

11. Key qualifications (relevant to the project):

Five year experience in managing ITTO Project for Forest Fire Management 1996 ~ 2001. He has sustained experience as resource persons in using remote sensing for forest monitoring, forest inventory and spatial planning, since 1986

Chairperson of the Research Consortium, Forest Program III Project, funded by Kfw (German Government and Ministry of Environment and Forestry), 2021-2024

12. Specific country experience

Country	Date: from (month/year) to (month/year)
Norway	1997
Finland	2003 - training for the trainer on remote sensing
Germany	July 2013, —short term visiting scientist
	September 2017
	March 2019 - Gotttingen
China	March 2017
Japan	1990~1996, PhD study, Niigata University
	2003 post doct in Niigata Univ.
	2009 in FFPRI Tsukuba
	2014 as visiting Professor in Shinshu University 2019 Conference and visiting Scientist Gifu University
Myanmar	FAO, Indonesian forest monitoring expert, 2016
Laos	Resource person in Remote sensing 2015
Brunei	Resource person in Remote sensing 2015
Malaysia	Resource person in the use of remote sensing in forestry (2000 & 2018)

13. Professional experience record (projects):

Date: from - to (month/year)	June 1996 - 2001
Location	Bogor, Lampung, Palembang and Kalimantan - Indonesia
Company	IPB - University & JICA
Position	Project secretary (vice of the project leader)
Description	Project management

Date: from - to (month/year)	2008 - 2009
Location	Indonesia
Company	Collaboration between Faculty of Forestry IPB and FORESTRY AND FOREST PRODUCT RESEARCH INSTITUTE (FFPRI) JAPAN:
Position	Team Leader / Resource person
Description	Team leader on research project “Development of Forest Degradation Index and Carbon Emission Estimation Method using PALSAR Data in Indonesia", since 2008.

Date: from - to (month/year)	2009 - 2011
Location	Bogor, Sumatera dan Sulawesi
Company	IPB University, JAXA Japan & JICA
Position	Resource person
Description	Principal reseaher on development of Manual Interpretation of ALOS PALSAR IMAGES. Collaboration between the Faculty of Forestry and JICA, Development of Interpretation Guideline for ALOS PALSAR (japan) - IPB, 2009-2011

Date: from - to (month/year)	2011
Location	Bogor, Palembang - Indonesia
Company	Collaboration between Korea-Indonesia Project on CCF (KIPCCF) and The Faculty of Forestry Bogor Agricultural University, 2011.
Position	Researcher
Description	Expert on the study on Analysis on Land-use change using remote sensing and GIS technology in Lombok island Principal researcher on “Analysis on Landuse Change using Remote Sensing and GIS Technology; and Deforestation and Forest Degradation in Lombok Island, Indonesia”,

Date: from - to (month/year)	June 2016 - 2017
Location	Kalimantan
Company	Academy of Forest Inventory and Planning, Forestry Inventory and Planning (AFIP)
Position	Expert Leader
Description	Research collaboration between the Faculty of Forestry IPB, Indonesian Society of Remote Sensing (ISRS) and Academy of Forestry Inventory and Planning (AFIP) 2016-2017.

Date: from - to (month/year)	2010
Location	Central Kalimantan and Riau Province
Company	In collaboration between Center for Forest and Nature Conservation Research and Development and faculty of forestry IPB (supported by ITTO, EU, CITES and MoF).
Position	Team Leader
Description	the study of Ramin Iventory carried out in Central Kalimantan dan Riau Province,

Date: from - to (month/year)	2009
Location	West Java
Company	NED Japan and Faculty of Forestry IPB
Position	Team Leader
Description	The study of biodiversity and biomass in Gunung Halimun National Park. In Collaboration between NED Japan and Faculty of Forestry IPB, 2009.

Date: from - to (month/year)	2010 - 2022/23
Location	Jambi
Company	Faculty of Forestry IPB, Gottingen Univ, Jambi Univ and Tadulako Univ
Position	Research collaborator between Gottingen University (Germany) and Bogor Agricultural University on CRC 99O
Description	Spatial analysis, forest montoring and landscape changes

Date: from - to (month/year)	2020 - 2023
Location	Tanggamus & Bandung
Company	Faculty of Economics and Managemnt IPB, Bappenas, and United Nations Environment Programme (UNEP)
Position	Researcher on The Economics of Ecosystem and Biodiversity (TEEB) for Agriculture and Food Initiative in Indonesia
Description	Spatial analysis and landscape changes

14. Others (e.g. publications):

Google Scholar :
https://scholar.google.com/citations?hl=id&user=0JyFbUkAAAAJ

1. Jaya, I N. S. And S. Kobayashi, 1994, Forest Change Detection using multi-temporal principal component algorithm. Proceeding of NAFRO seminar on sustainable forestry and its biological environment. Japan Society of Forest Planning, pp. 19-34
2. Jaya, I N. S. And S. Kobayashi, 1994, Monitoring forest change by using multi-temporal Landsat TM data. Presented on the 105th Annual Conference of the Japan Society of Forestry, held from April 3rd to 6th,1994, in Tokyo University of Agriculture and Technology
3. Jaya, I N. S., S. Kobayashi and D. Nagamoto 1995, Forest Change Detection using two-date TM data: A case study using several synthetic images. Presented on the 106th Annual Conference of the Japan Society of Forestry, held from April 2nd to 5th, 1995, in Hokkaido University.
4. Kamioka, K., I N. Jaya, S. Kobayashi and N. Abe, 1995, System for topographic analysis by merging GIS and satellite image: A case study in Niigata University Experimental station. Presented on the 106th Annual Conference of the Japan Society of Forestry, held from April 2nd to 5th, 1995, in Hokkaido University.
5. Abe, N, I N. S. Jaya and K. Kamioka 1995, Evaluation of Urban Forest using Landsat TM data. Presented on the 106th Annual Conference of the Japan Society of Forestry, held from April 2nd to 5th, 1995, in Hokkaido University.
6. Jaya, I N. S. And S. Kobayashi, 1995a, Classification of Detailed Forest Cover Types based upon the Separability Algorithm: A case study in the Yahiko Mountain and Shibata Forest Area. Journal of the Remote Sensing Society of Japan, 15 (1): 40-53
7. Jaya, I N. S. And S. Kobayashi, 1995b, Change Detection of Forest Vegetation using Multitemporal Landsat TM data. Journal of Forest Planning, 1(1):23-38
8. Jaya, I N. S. And S. Kobayashi, 1995c, Manual of the Jaya-Kobayashi (JAYA-SYSTEM). Laboratory of Forest Mensuration, Graduate School of Science and Technology, Niigata University (unpublished).
9. Jaya, I N. S., S. Kobayashi and D. Nagamoto, 1996, Improving Change Detection Accuracy using Simple Regression Method. Proceeding of the Symposium on Forest Inventory and monitoring in East Asia. Japan Society of Forest Planning Press, pp. 95-104.
10. Jaya, I N.S. and M. B. Saleh. 1996. Information Derived from Satellite-based Remote Sensing for Updating Forest Maps. Proceeding of Technology for Updating Maps Using Remote Sensing. The 9th Meeting of Asean Experts Group on Remote Sensing.
11. Jaya, I N. S., 1996. Monitoring Forest Cover Change Using Multitemporal TM data. Ph.D. thesis. Graduate School of Science and Technology, Niigata University.
12. Jaya, I N. S., S. Kobayashi and M. Buce Saleh, 1996, Feasibility of Multidate Landsat-5 Data for Monitoring Forest Plantation. Jurnal Manajemen Hutan Tropika, Vol. 2 (1): 7-20
13. Jaya, I N. S. and M. B. Saleh, 1996. Information Derived from Satellite-based Remote Sensing for Updating Forest Maps. Proceeding of Technology for Updating Maps Using Remote Sensing. The 9th Meeting of Asean Expert Group on Remote Sensing.
14. Jaya, I N. S., Hardjoprajitno, S and Ningsih, K, 1997. The effect of rural development to the forest function: a case study in Muara Angke forest area. Presented on Blue Sky Seminar "Gas utilization technology and problem solution to support the blue sky programs achievements, October 1997
15. Kuswanda M, P Chai PK, INS Jaya (editors), 1999. The 1997 Borneo Biodiversity Expedition to the Trans-boundary Biodiversity Conservation Area of Betung-Kerihun national Park. International Tropical Timber Organization. Yokohama. Japan. First Edition 316 p.
16. Jaya, I N. S., Hardjoprajitno, S. and Jatmiko, S. A., 1998. Detecting forest cover changes using multitemporal TM data: a case study at North Jakarta coast.
17. Suratmo, G. and Jaya, I N. S.1998. Overview national policy and legislation concerning forest and land fire in Indonesia. International cross sectoral forum on forest fire management in South East Asia, 7-8 December 1998. Organized jointly by National Planning Development Agency (BAPPENAS), ITTO and JICA (Speaker).
18. Sudaryanto, Husaeni, E. A. and Jaya, I N. S., 1999, The use of fire on shifting cultivation. Proceeding of the 2nd international workshop on forest fire control and suppression, Bogor 16-18 February, 1999.
19. Jaya, I N. S. and E. Husaeni, 1999. Evaluation of Forest Damage due to 98'fire in East Kalimantan using SPOT imagery: A case study in ITCI Ltd. Concession Area. Proceeding of the 3rd International Symposium on Asian Tropical Forest Management. Samarinda East Kalimantan. September 20-23, 1999.
20. Jaya, I N.S., 2000. Detecting Burnt Forest Damage Using Digital Spot Imagery. Tropical Forest Management Journal. Vol. 6 (I): 7-23.
21. Jaya, I N. S. M. Ikhwan dan Nurhendra. 20. Tehnik Mendeteksi Kebakaran Hutan Melalui Citra Satelit Multi Waktu: Studi kasus di Propinsi Sumatera Selatan dan Riau. Tropical Forest Management Journal. Vol VI(2):25-37.
22. Jaya, I N. S., 2000. Monitoring Vegetation Changes in Urban Area Using Landsat TM Imagery. Tropical Forest Management Journal. Vol VI(1):33-42
23. Jaya, I N. S., Endang Pujiastuti dan M. Buce Saleh. 2000. Deteksi Kondisi Hutan Paska Kebakaran Melalui Citra Multisensor MOS-MESSR dan Landsat TM: Studi Kasus di areal PT. MHP Sumatera Selatan. Jurnal Manajemen Hutan Tropika, Vol VI(2):55-70.
24. Jaya, I N. S., M. Buce Saleh, Rudi Ichsan Ismail, Hendri Nurwanto, Cecep Kusmana and Nobuyuki Abe. 2001. Practical Technique for Detecting Mangrove Vegetation Using Digital MOS-MESSR and

Landsat-5 TM Image: A Case Study in Karawang Cape, West Java. Tropical Forest Management Journal. Vol VII(1):23-36.
25. Eva Achmad, Upik Rosalina Wasrin and I.N.S. Jaya. 2001. Assesment of the use of IRS PAN and LANDSAT-TM Image fusion for forestry application. Journal of GIS, Remote Sensing and Dynamic Modeling No. 1, p. 1-14.
26. Jaya, I N. S. dan Agung Budi Cahyono. 2001. Kajian Teknis Pemanfaatan Potret Udara Non-Metrik Format Kecil pada Bidang Kehutanan. Jurnal Manajemen Hutan Tropika, Vol VI(2):55-64 Technical study on the use of small format non-metric aerial on forestry field. Journal of tropical forest management, Vol VI(2):55-64 (in Indonesian).
27. Ismail Hj. Hashim, I.N.S. Jaya and Iwan Gunawan. 2002. Evaluation of Land Suitability for Selected Land Utilization Types Using Geographic Information System Technology. Jurnal Manajemen Hutan Tropika, Vol VIII(2):11-26
28. Jaya, I N. S. 2002. Study on Spatial and Temporal Changes of Forest Cover Due to Canal Establishment in Peat Land Area, Central Kalimantan. Jurnal Manajemen Hutan Tropika (Journal of tropical forest management), Vol VIII(1):27-45
29. Jaya, I N. S. 2002. Separabilitas Spektral Beberapa Jenis Pohon Menggunakan Citra Compact Airborne Spectograph Imager (CASI). Jurnal Manajemen Hutan Tropika (Journal of tropical forest management), Vol VIII(2):57-73
3O. Susilawati dan I.N.S. Jaya. 2003. Evaluasi Kerusakan Tegakan Tinggal Akibat Pemanenan Menggunakan Landsat 7 ETM+ di HPH PT. Sri Buana Dumai Provinsi Riau. Jurnal Manajemen Hutan Tropika, Vol IX(1):1-16. Evaluation of Logged over foerst due to forest harvesting using Landsat 7 ETM+ in Sri Buana Dumai Concession Area, Riau Province. Journal of tropical forest management, Vol IX(1):1-16 (in Indonesian).
31. I.N.S. Jaya. 2003. Kajian Teknis Penggunaan Citra IKONOS dan CASI dalam Rangka Inventarisasi Hutan : Studi Kasus di Kebun Raya Bogor. Jurnal Manajemen Hutan Tropika, Vol IX(2):1-18. Technical study on the use of IKONOS and CASI imageries for Forest Inventory: A case study in Bogor Botanical Garden. Journal of Tropical Forest Management., Vol IX(2):1-18 (in Indonesian).
32. Septriana. D, Indrawan. A, Dahlan. E. N and I.N.S. Jaya. 2004. Prediksi Kebutuhan Hutan Kota Berbasis Oksigen di Kota Padang, Sumatera Barat. Jurnal Manajemen Hutan Tropika, Vol X(1):49-59. Estimating Urban Forest on the basis of oxygen in Padang City, West Sumatera Province. Journal of Tropical Forest Management, Vol X(1):49-59 (in Indonesian).
33. Mulyanto. L dan I.N.S. Jaya. 2004. Analisis Spasial Degradasi Hutan dan Deforestasi : Studi Kasus di PT. Duta Maju Timber, Sumatera Barat. Jurnal Manajemen Hutan Tropika, Vol X(2):29-42. Spatial Analysis of forest degradation and deforestation: A case study in Duta Maju Timber concession area, West Sumatera Province. Journal of Forest Management, Vol X(2):29-42. (in Indonesian)
34. Jaya, INS. 2005. Teknik Mendeteksi Lahan Longsor Menggunakan Citra SPOT Multiwaktu: Studi Kasus di Teradomari, Tochi dan Shidata Mura, Niigata, Japan. Jurnal Manajemen Hutan Tropika, Vol XI(1):31-48.Technique for detecting landslides using multitemporal SPOT imageries: A case study in Teradomari, Tochi and Shidata Mura, Niigata, Japan. Journalof Tropical Forest Management, Vol XI(1):31-48 in Indonesian).
35. R. Assyfa El Lestari, dan I.N.S. Jaya. 2005. The use of Remote Sensing Technology and GIS for estimating the need of urban forest: a case study in Bogor city. Tropical Forest Management Journal. Jurnal Manajemen Hutan Tropika, Vol XI(2):55-69
36. Jaya, I N.S., and Nobuyuki Abe. 2006. Methods for Detecting Landslide within Mountainous Area Using Multi-temporal SPOT HRV Imageries: A Case Study in Niigata, Japan. Bull. Facul. Agric. Niigata Univ., 58(2):109-116,2006
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38. Purnama, E.S and I N S Jaya. 2006. Forest Fire Vulnerability index in Riau Province. Tropical Forest Management Journal, Vol 13, No 1: 87-97.
39. Jaya, I N S, R. Boer and Samsuri, 2007. Development of fire Vulnerability index in central Kalimantan using Remote Sensing and GIS. Final Report. In Collaboration between International Institute for Climate and Society and Bogor Agricultural University (Report).
40. Jaya, I N S, et all. 2006. The use of high resolution satellite imageries (SPOT 5 Supermode) for forest inventory in Kalimantan. Report.
41. Jaya, I N S et all., 2007. The use of high resolution satellite imageries for forest inventory in Sulawesi. Report.
42. Jaya, I N S et all., 2007. The use of high resolution satellite imageries for forest inventory in Sumatra. Report.
43. Jaya, INS and ES Purnama, 2009. The prospect on the use of high resolutin satellite imagery for forest inventory: a sound resource data for estimating standing stock in Indonesia. The manuscript had been presented and submitted to the japan Journal of Forest Planning.
44. Puspaningsih, K Murtilaksono, S. Sinukaban, I N S Jaya, Y. Setiadi. Pemantauan Keberhasilan Reforestasi di Kawasan Pertambangan Melalui Model Indeks Tanah, 2010. Jurnal Manajemen Hutan Tropika, Vol XVI No 2, 53-62. Monitoring the success of reforestation in ex-mining area through soil model index, 2010. Journal of Tropical Forest Management, Vol XVI No 2, 53-62 (in Indonesian). http://www.manhut.fahutan.ipb.ac.id/publikasi/jurnal
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47. Dodik Ridho N., M. Yusram Massijaya, I Nengah Surati Jaya, Dudung Darusman, Ulfah Juniarti, Lutfy Abdulah; Deforestation and Forest Degradation in Lombok Island, Indonesia: Causes and Consequences; Faculty of Forestry Bogor Agricultural University; 2011; Hal.1 —87, Collaboration between Korea-Indonesia Project on CCF (KIPCCF) and The Faculty of Forestry Bogor Agricultural University. KIPCCF Report.
48. Jaya INS, Samsuri, Lastini T, Purnama ES. 201. Teknik Inventarisasi Sediaan Ramin di Hutan Rawa Gambut. Technique for inventorying standing stock of Ramin in peat swamp forest (ITTO-Ministry of Forestry and IPB report, In Indonesian).
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53. Samsuri, Jaya INS, Syaufina L. 2012. Model Spasial Tingkat Kerawanan Kebakaran Hutan dan Lahan (Studi Kasus Propinsi Kalimantan Tengah. Foresta, Vol No (1) 2012. Spatial model of forest and land fire risk (A case study in Central Kalimantan Province, Foresta, Vol No (1) 2012 (in Indonesian). Faperta USU - Persatuan Peneliti Kehutanan Sumut; No.ISSN: 2089-9890; Vol.1; No.1; Maret; 2012; Hal.12-18, http://kehutanan.usu.ac.id
54. Immy Suci Rohyani, I N.S.Jaya, Noor Farikhah Haneda, Yayi Munara Kusuma; Pengaruh Lingkungan Abiotik dan Biotik Terhadap Kelimpahan Collembola Tanah di Area Vegetasi Tambang PT Newmont Nusa Tenggara; Forum Pascasarjana SPs IPB; No.ISSN: 0126-1886; Vol.35; No.2; April; 2012; Hal.107- 118, http://upload/jurnal/vol31-no2.pdf
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