

CURRICULUM VITAE

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Perguruan Tinggi : Universitas Gadjah Mada
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RIWAYAT PENDIDIKAN PERGURUAN TINGGI

Tahun Lulus	Program Pendidikan	Perguruan Tinggi	Jurusan/Program Studi
2001	Sarjana	Universitas Gadjah Mada	Teknik Elektro
2005	Master/Magister	The University of Queensland	Biomedical Engineering
2012	Doktor	Universiti Teknologi Petronas	Electrical and Electronics Engineering

RIWAYAT PELATIHAN PROFESIONAL

Tahun	Jenis Pelatihan	Penyelenggara	Jangka waktu
2013	Workshop Penyusunan Kurikulum Sistem Informasi	STEI ITB	2 hari
2013	Workshop Penyusunan Kurikulum Teknik Informatika	STEI ITB	2 hari

PENGALAMAN PENELITIAN

Tahun	Judul Penelitian	Ketua/Anggota	Sumber Dana
2008-2011	Non-invasive Image Enhancement of Colour Retinal Fundus Images for A Computerised Diabetic Retinopathy Monitoring and Grading System	Anggota	MOSTI, Malaysia
2013	Klasifikasi Penyakit Cardiac Arrhythmia Menggunakan Cascade Generalization Based Classifier Berdasarkan Data Sinyal ECG	Anggota	Dana Penelitian BPPF Fakultas Teknik
2014	Rancang Bangun EKG Cerdas Sebagai Alat Bantu Diagnosis Penyakit Jantung dan Meningkatkan Daya Saing Industri Instrumentasi Medik Dalam Negeri	Anggota TPM	Hibah Pekerti Dikti
2014	Pengolahan Citra untuk Deteksi Massa Tumor Kanker Payudara	Ketua	Hibah Penelitian Jurusan TETI UGM
2014-2015	Prototipe Perangkat Lunak Penapis Konten Negatif	Anggota	Program Dukungan Penelitian dan Pengembangan Produk Telekomunikasi Kominfo
2015-2016	Sistem Monitoring dan Diagnosis <i>Diabetic Retinopathy</i>	Ketua	Program Unggulan Perguruan Tinggi, Dikti

PUBLIKASI

Tahun	Judul	Jurnal/Proceeding
2009	Retinal vasculature enhancement using independent component analysis	J. Biomedical Science and Engineering, vol. 2, pp. 543-549, 2009
2009	Analysis of Foveal Avascular Zone in Color Fundus Image for Grading of Diabetic Retinopathy	International Journal of Recent Trends in Engineering, vol. 2, no. 6, pp. 101-104, 2009, Academy Publisher
2010	Determination of foveal avascular zone in diabetic retinopathy digital fundus images	Computers in Biology and Medicine, vol. 40, issue 7, pp. 657-664, 2010, Elsevier. ISSN: 0010-4825
2011	Analysis of retinal fundus images for grading of diabetic retinopathy severity	Medical and Biological Engineering and Computing, vol. 49, pp. 1-8, January 2011. ISSN: 0140-0118
2011	Area Analysis of Foveal Avascular Zone in Diabetic Retinopathy Color Fundus Images	International Journal of Medical Engineering and Informatics, vol. 3, no. 1, pp. 84-98, 2011, Inderscience Publisher

2011	Analysis of Foveal Avascular Zone for Grading of Diabetic Retinopathy	International Journal of Biomedical Engineering and Technology , vol. 6, no. 3, pp. 232–250, 2011, Inderscience Publisher. ISSN: 1752-6418
2014	Breast cancer diagnosis improvement using feature selection	Advances in Intelligent Systems. vol. 53, pp. 227-236, 2014
2014	A study of data randomization on a computer based feature selection for diagnosing coronary artery disease	Advances in Intelligent Systems, vol. 53, pp. 237-248, 2014
2014	Modeling of the 3D-view geometry based motion detection system for determining trajectory and angle of the unguided fighter aircraft-rocket	Advances in Intelligent Systems, vol. 53, pp. 163-175, 2014
2015	Optic Disc Segmentation Based on Red Channel Retinal Fundus Images	Intelligence in the Era of Big Data. vol. 516, R. Intan, C.-H. Chi, H. N. Palit, and L. W. Santoso, Eds., ed: Springer Berlin Heidelberg, 2015, pp. 348-359
2015	Detection of Exudates on Color Fundus Images using Texture Based Feature Extraction	International Journal of Technology; Vol 6, No 2 (2015), 04/30/ 2015
2015	Signal domain in respiratory sound analysis: Methods, application and future development	Journal of Computer Science, vol. 11, no. 10, pp. 1005-1016, October 2015. ISSN 1549-3636. Scopus indexed.
2009	Contrast enhancement of retinal vasculature in digital fundus image	Proceeding of 2009 International Conference on Digital Image Processing (ICDIP 2009), pp. 137-141, Bangkok, Thailand
2009	Segmentation of retinal vasculature in colour fundus images	Proceeding of Innovative Technologies in Intelligent Systems and Industrial Applications, 2009 (CITISIA 2009), Kuala Lumpur, Malaysia
2009	Model-based retinal vasculature enhancement in digital fundus image using independent component analysis	Proc. 2009 IEEE Symposium on Industrial Electronics & Applications (ISIEA2009), pp. 137-141, Kuala Lumpur, Malaysia
2010	Analysis of Foveal Avascular Zone in Colour Fundus Images for Grading of Diabetic Retinopathy Severity	The 32 nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Buenos Aires, Argentina
2010	Gaussian Bayes classifier for medical diagnosis and grading: Application to diabetic retinopathy	Proceeding of Biomedical Engineering and Sciences (IECBES), 2010 IEEE EMBS Conference on, pp. 52-56, Kuala Lumpur, Malaysia
2012	Toward a Fully Automated DR Grading System	The 5 th European Conference of the International Federation for Medical and Biological Engineering IFMBE Proceedings. vol. 37, pp. 663-666, 2011,

		Budapest, Hungary: Springer Berlin Heidelberg. ISBN: 1680-0737
2012	Enhancement of Colour Fundus Image and FFA Image using RETICA	Proceeding of Biomedical Engineering and Sciences (IECBES), 2012 IEEE EMBS Conference on, Langkawi, Malaysia
2013	Comparison Study on the Performance of Image Enhancement Methods towards the Distorted Digital Colour Retinal Fundus Images	Proceeding of Regional Conference on Computer and Information Engineering 2013 (RC CIE 2013), pp. 95-98, Bangkok, Thailand
2013	Comparative Study of Attribute Reduction on Arrhythmia Classification Dataset	Proceedings of International Conference on Information Technology and Electrical Engineering 2013 (ICITEE 2013). Pp. 68-72, 2013. Yogyakarta, Indonesia: IEEE. ISBN: 978-1-4799-0425-9
2014	Smart Automation for Credit Point Compilation of Instructor	Proceedings of Information and Communication Technology (ICoICT), 2014 International Conference on, 2014. Bandung, Indonesia: IEEE. ISBN: 978-1-4799-3581-9
2014	Identification of Malignant Masses on Digital Mammogram Images	Proceeding of ICITEE (International Conference on Information Technology and Electrical Engineering) 2014
2014	Contrast Measurement for No-Reference Retinal Image Quality Assessment	Proceeding of ICITEE (International Conference on Information Technology and Electrical Engineering) 2014
2014	Benchmarking of Feature Selection Techniques for Coronary Artery Disease Diagnosis	Proceeding of ICITEE (International Conference on Information Technology and Electrical Engineering) 2014
2014	GLCM Feature Extraction and K-Means Classification Method on Mammogram Image	Proceeding of RCCIE (Regional Conference on Computer and Information Engineering) 2014
2014	Weights Behavior in the Solution Space of the Cerebellar Model Articulation Controller (CMAC) learning	Proceeding of RCCIE (Regional Conference on Computer and Information Engineering) 2014
2014	Modified Selective Colour Image Encryption Scheme Using Logistic Map for Key Generation	Proceeding of RCCIE (Regional Conference on Computer and Information Engineering) 2014
2014	Comparison of Missing Values Imputation Methods for Hepatitis Dataset	Proceeding of RCCIE (Regional Conference on Computer and Information Engineering) 2014
2014	Skin and Porn Classifications Based GLCM Textures Features and Localization based it Biggest Contours	Proceeding of RCCIE (Regional Conference on Computer and Information Engineering) 2014
2014	Analysis of Digital Mammograms for Detection of Breast Cancer	Proceeding of the 2014 International Conference on Computer, Control,

		Informatics and Its Applications (IC3INA)
2014	Comparison of Time Frequency Analysis during Word-task and Color-task in the Stroop Task	Proceeding of the 2014 Biomedical Engineering International Conference (BMEiCON-2014)
2014	GLCM Feature Extraction and EBP on Mammogram Image	Proceeding of the 1 st International Conference on Biomedical Engineering Technology and Application (ICBETA) 2014
2014	The Classification of Fetus Gender on Ultrasound Images Using Learning Vector Quantization (LVQ)	Proceeding of the 2014 Makassar International Conference on Electrical Engineering and Informatics (MICEEI)
2014	Cerebellar Model Articulation Controller (CMAC) for Sequential Images Coding	Proceeding of the 1 st International Conference on Information Technology, Computer and Electrical Engineering (ICITACEE) 2014
2014	Feature Extraction and Classification of Heart Sound based on Autoregressive Power Spectral Density (AR-PSD)	Proceeding of the 1 st International Conference on Information Technology, Computer and Electrical Engineering (ICITACEE) 2014
2014	A Comparative Study on Signature Recognition	Proceeding of the 1 st International Conference on Information Technology, Computer and Electrical Engineering (ICITACEE) 2014
2014	Analysis of Emotional Condition Based on Electrocardiogram Signals	Proceeding of the International Conference on Electrical Engineering and Computer Science (ICEECS-2014)
2014	Data Fusion and Switching Function for MAV Navigation System	Proceeding of the International Conference on Electrical Engineering and Computer Science (ICEECS-2014)
2014	Negative Content Filtering Based On Face Rotation and Skin Texture	Proceeding of the International Conference on Electrical Engineering and Computer Science (ICEECS-2014)
2015	A Comparison of Classification Methods on Diagnosis of Thyroid Diseases	Proceeding of the International Seminar on Intelligent Technology and Its Applications (ISITIA) 2015, Surabaya, Indonesia, 20-21 Mei 2015
2015	Design and Development of Evaluation Method for 3D Gaze Tracking in Virtual Space	The 10th International Forum on Strategic Technology (IFOST 2015), Bali, Indonesia, 3-5 June 2015.
2015	Region Based Selective Image Encryption Using Graph Cut for Passport-type Image	The 10th International Forum on Strategic Technology (IFOST 2015), Bali, Indonesia, 3-5 June 2015.
2015	Enhancement of Lung X-ray Images using Contrast Limited Adaptive Histogram Equalization and Median	The 10th International Forum on Strategic Technology (IFOST 2015), Bali, Indonesia, 3-5 June 2015.

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2015	Thyroid Nodule Segmentation Using Active Contour Bilateral Filtering on Ultrasound Images	The 14th International Conference on Quality in Research (QiR) 2015, Lombok, Indonesia, 10-13 August 2015
2015	Rule Selection Based Using Rough Set Theory For Diagnosis Of Breast Cancer on Digital Mammogram Images	The 14th International Conference on Quality in Research (QiR) 2015, Lombok, Indonesia, 10-13 August 2015
2015	The Impact of Different Fold for Cross Validation Of Missing Values Imputation Method On Hepatitis Dataset	The 14th International Conference on Quality in Research (QiR) 2015, Lombok, Indonesia, 10-13 August 2015
2015	Comparative Study On Feature Selection And Classification Techniques For Diagnosis Of Heart Disease	The 14th International Conference on Quality in Research (QiR) 2015, Lombok, Indonesia, 10-13 August 2015
2015	Comparative Study of Mammogram Image Enhancement Methods According to Determinant of Radiography Image Quality	Proceedings of Second International Conference on Electrical Systems, Technology and Information 2015 (ICESTI 2015), Bali, Indonesia, 9-12 September 2015
2015	Relevant Features for Classification Digital Mammogram Images	Proceedings of Second International Conference on Electrical Systems, Technology and Information 2015 (ICESTI 2015), Bali, Indonesia, 9-12 September 2015
2015	Automated Segmentation of Optic Disk Area using Mathematical Morphology and Active Contour	Proceeding of the 2015 International Conference on Computer, Control, Informatics and its Applications (IC3INA 2015), Bandung, Indonesia, 5-7 October 2015
2015	Automated Microaneurysms (MAs) Detection in Digital Colour Fundus Images Using Matched Filter	Proceeding of the 2015 International Conference on Computer, Control, Informatics and its Applications (IC3INA 2015), Bandung, Indonesia, 5-7 October 2015
2015	Performance Analysis of Edge and Detailed Preserved Speckle Noise Reduction Filters for Breast Ultrasound Images	Proceeding of the 2nd International Conference on Information Technology, Computer, and Electrical Engineering (ICITACEE) 2015, Semarang, Indonesia, 16-18 October 2015
2015	Feature Extraction for Classifying Lesion's Shape of Breast Ultrasound Images Using Adaptive Median Filter	Proceeding of the 2nd International Conference on Information Technology, Computer, and Electrical Engineering (ICITACEE) 2015, Semarang, Indonesia, 16-18 October 2015
2015	Feature Extraction and Classification for	Proceeding of the 2nd International

	Detection Malaria Parasites in Thin Blood Smear	Conference on Information Technology, Computer, and Electrical Engineering (ICITACEE) 2015, Semarang, Indonesia, 16-18 October 2015
2015	Active Contour Bilateral Filtering for Breast Lesions Segmentation on Ultrasound Images	Proceeding of the 2015 International Conference on Science in Information Technology (ICSITech 2015), Yogyakarta, Indonesia, 27-28 October 2015
2015	The Stand Meter Extraction of kWh-meter	Proceeding of the 2015 International Conference on Science in Information Technology (ICSITech 2015), Yogyakarta, Indonesia, 27-28 October 2015
2015	Performance Evaluation of Combined Feature Selection and Classification Methods in Diagnosing Parkinson Disease Based on Voice Feature	Proceeding of the 2015 International Conference on Science in Information Technology (ICSITech 2015), Yogyakarta, Indonesia, 27-28 October 2015
2015	Perspective Rectification in Vehicle Number Plate Recognition Using 2D-2D Transformation of Planar Homography	Proceeding of the 2015 International Conference on Science in Information Technology (ICSITech 2015), Yogyakarta, Indonesia, 27-28 October 2015
2015	Detection of Foveal Avascular Zone for Diagnosis of Diabetic Retinopathy	Proceeding of the 2015 International Conference on Science in Information Technology (ICSITech 2015), Yogyakarta, Indonesia, 27-28 October 2015
2015	Segmentation of Exudates Based on High Pass Filtering in Retinal Fundus Images	Proceeding of the International Conference on Information Technology and Electrical Engineering (ICITEE 2015), Chiang Mai, Thailand, 29-30 October 2015
2015	Negative Content Filtering for Video Application	Proceeding of the International Conference on Information Technology and Electrical Engineering (ICITEE 2015), Chiang Mai, Thailand, 29-30 October 2015
2015	Zernike Moment Feature Extraction for Classifying Lesion's Shape of Breast Ultrasound Images	Proceeding of the International Conference on Information Technology and Electrical Engineering (ICITEE 2015), Chiang Mai, Thailand, 29-30 October 2015
2015	Quantifying visual attention and visually induced motion sickness during day-	Proceeding of the 2015 International Conference on Data and Software

	night driving and sleep deprivation	Engineering (ICoDSE 2015), Yogyakarta, Indonesia, 25-26 November, 2015
2015	Decision Support System for Heart Disease Diagnosing Using K-NN Algorithm	Proceeding of International Conference on Electrical Engineering, Computer Science and Informatics (EECSI 2015), Palembang, Indonesia, 19 -20 August 2015

PERAN DALAM KEGIATAN PUBLIKASI ILMIAH

Tahun	Jenis>Nama Kegiatan	Peran	Instusi/ Penyelenggara
2009	International Conference on Biological and Biomedical Engineering (ICBBE) – (2009)	Reviewer	EMBS
2009-2010	International Journal of Computer Theory and Engineering, ISSN: 1793-8201	Reviewer	IACSIT
2011, 2014	IEEE Transactions on Information Technology in Biomedicine	Reviewer	IEEE
2014-2015	Medical and Biological Engineering and Computing	Reviewer	Springer
2013-2015	The Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC)	Reviewer	EMBS
2013 - sekarang	Asean Engineering Journal (AEJ)	Editor	AUN SEED/Net
2014 - sekarang	Jurnal Nasional Teknik Elektro dan Teknologi Informasi	Editor	Jurusan TETI UGM
2013	Conference on Information Technology and Electrical Engineering (CITEE 2013)	Ketua	Jurusan TETI UGM
2014	Joint Conference JTETI 2014: ICITEE – CITEE – RCCIE - CCIO	General Chair	Jurusan TETI UGM
2015	International Conference on Information Technology and Electrical Engineering (ICITEE 2015)	Technical Program Committee	Departemen TETI UGM
2016	Joint Conference DTETI 2014: ICITEE – iBioMed - CITEE	Advisory	Departemen TETI UGM

ORGANISASI PROFESI/ILMIAH

Tahun	Jenis>Nama Organisasi	Jabatan
2012 - sekarang	IEEE	Anggota
2012 - sekarang	ACM	Anggota
2012 - sekarang	IAENG	Anggota
2012 - sekarang	IACSIT	Anggota
2012 - sekarang	ACEEE	Anggota

Yogyakarta, 1 Januari 2016

Hanung Adi Nugroho, Ph.D.