

APPENDIX B – FACULTY VITAE

**ELECTRICAL ENGINEERING STUDY PROGRAM
HASANUDDIN UNIVERSITY**

FACULTY VITAE

Salama Manjang

1. Name: Salama Manjang
2. Education:
 - a. Bachelor degree, Electrical Engineering, Universitas Hasanuddin, 1988
 - b. Master degree, Electrical Engineering, Institut Teknologi Bandung, 1994
 - c. Doctor degree, Electrical High Voltage Insulation Technology, Institut Teknologi Bandung - Sandwich in T.U. Braunschweig University, 2001
3. Academic experience:
 - a. Lecturer (2001-2006), Senior Lecturer (2006-2008), Professor of High Voltage Engineering, 2008-now
 - b. Chair of Department of Electrical Engineering, 2016-now
 - c. Head of Center for Electricity Energy Research and Development at the Institute for Research and Community Service (LP2M) (2014-2016)
 - d. Head of High Voltage Engineering Laboratory Electrical Engineering, 2009-now
 - e. Secretary Head of High Voltage Engineering Laboratory, Makassar (2006-2008)
 - f. Vice Head of Energy and Electricity Assessment Research Center, (2004-2014)
 - g. Chair of Post Graduate Study Program, Post Graduate Program, Universitas Hasanuddin (2004-2014)
4. Non-academic experience:
 - a. Preparation of the Road Map Village Electricity South Sulawesi, Southeast Sulawesi and West Sulawesi 2015-2019, Cooperation of PT. PLN (Persero) Wil. Sulselrabar with LPPM- Universitas Hasanuddin, 2014.
 - b. Field Investigation Study of Steam Power Plant (PLTU 2x50 MW) IPP Sulut3, North Sulawesi, Cooperation of PT. PLN (Persero) PUSENLIS Jakarta with LPPM- Universitas Hasanuddin, 2013.
 - c. Field Investigations Study of Hydropower Project (PLTA) Watunohu 1 Kolaka, Southeast Sulawesi, Cooperation of PT. PLN (Persero) PUSENLIS Jakarta with LPPM- Universitas Hasanuddin, 2013.
 - d. Document Preparation of Management Environmental Impact Analysis (AMDAL) Mini Hydro Power Plant (2x2 MW) Lapai I Southeast Sulawesi. Cooperation of PT. PLN (Persero) UIP XII with LPPM- Universitas Hasanuddin, 2013.
 - e. Optimizing the Use of Renewable Energy for Primary Energy Power Plants in South Sulawesi Scenario-Based National Energy Mix, Compete Grant Project, Higher Education of the Republic of Indonesia, 2013.
5. Certifications or professional registrations:
 - a. Reviewer certificate from the Ministry of Research, Technology and Higher Education, Republic of Indonesia (2017).
 - b. Certificate of Assessor Competency in the Installation of Electric Power, from Ministry of Energy and Mineral Resources of the Republic of Indonesia (2016)

- c. Certificate for Energy Audit in the Building, by Renewable Energy and Energy Conservation, Ministry of Energy and Mineral Resources of the Republic of Indonesia (2015)
 - d. Certificate of Main Electric Power Engineer, Construction Services Development Board (2015).
 - e. Certificate of Up Grading Assessor (IATKI's Assessor). The Indonesian Power Engineers Association (2010)
6. Current membership in professional organizations
 - a. Electrical Engineer Alumni Association, Vice President, 2006-now.
 - b. Indonesian Engineer Association (PII), Coordinator for South Sulawesi, 2006-now.
 - c. National Consultant Association (INKINDO) South Sulawesi, Head of Expert and Advocacy, (2006-2010)
 - d. Indonesian Electrical Contractor Association (AKLINDO). Advisory Board for South Sulawesi. 2004-now.
 - e. Indonesian Electricity Expert Association (IATKI) South and Southeast Sulawesi. Chairman. 2004-now.
 - f. Indonesia Electricity Society (MKI) South and Southeast Sulawesi, member 2004-now.
 - g. Association of ITB Alumni (IA-ITB) South Sulawesi, member 2003-now.
7. Honors and awards: N/A
8. Service activities (within and outside of the institution): N/A
9. Briefly list the most important publications and presentations from the past five years:
 - a. Design Analyze of Ceramic and Polymer 150 kV Insulators for Tropical Condition Using Quicfield Software, Salama Manjang, Engineering Internasional Conference 6th, 2017, ISSN 2540-7740.
 - b. Evaluating the Effect Placement Capation and Destributed Photovoltaic Generation for Power System Losses Minimization in Radial Distribution System, Salama Manjang, Engineering Internasional Conference 6th, 2017, ISSN: 2540-7740.
 - c. Potential of Renewable Energy from Waste Mitigation of Gas Emissions, Salama Manjang at al, 2017 IEEE Internasional Conference on Smart Grid and Smart Cities, July 2017, ISBN; 978-1-5386-0504-2.
 - d. Settling Basin Modeling to Reduce Fluctuation of Sediment Concentration on MHP Irrigation Channels, Arifin P, Salama Manjang, Nadjamuddi H, Jurnal IJCIET, August 2017, Vol. 8 No. 8, ISSN Online: 0976-6316.
 - e. Analisis sedimentasi pada PLTMH Saluran Irigasi dan Pemodelan Settling Basin, Arifin P, Salama Manjang, Nadjamuddi H, Jurnal Nasional Prodi S3 Teknik Sipil Unhas, January 2017, Vol. XL, Makassar, ISSN: 2087-7986.
 - f. Analysis Effect of Sedimentation at MHP Type Turbine open Flume on Irrigation Channel, Arifin P, Salama Manjang, Nadjamuddi H, Jurnal Ijera, Januari 2017, Vol. 7, No. 1, ISSN: 2248-9622.
 - g. Energy Yield of Photovoltaic (PV) Systems Support Hybrid Power Generation in Bontang City, Indonesia, Sitti Hamnah, Salama Manjang, ICIC Express Letters An Internasional Journal Of Research And Surveys, November 2017, vol.9, No. ISSN: 1881-803.
10. Briefly list the most recent professional development activities: N/A

FACULTY VITAE

Ansar Suyuti

1. Name: Ansar Suyuti
2. Education:
 - a. Bachelor degree, Electrical Engineering, Universitas Hasanuddin, 1991
 - b. Master degree, Electrical Engineering, Universitas Hasanuddin, 2002
 - c. Doctor degree, Engineering Science/ Environmental Technology, Universitas Hasanuddin, 2013
3. Academic experience:
 - a. Assistant (1992-2000), Lecturer (2000-2013), Profesor, 2013-now
 - b. Distribution and Electrical Instalation Laboratory, Head, 1997-now
 - c. Department of Electrical Engineering, Chairman, (2003-2006)
 - d. Vice Dean Finacial and Administration Affair Faculty of Engineering, Universitas Hasanuddin, (2006 -2010) & (2010-2014)
 - e. Doctoral study Program in Electrical Engineering, Chairman, 2016-now
 - f. Member of Trustee Board, Universitas Hasanuddin, 2014-now
4. Non-academic experience:
 - a. PT Raja Teknik Sejati, Makassar, Electrical Contractor, (1991-1997)
 - b. PT AS Elektrikal Konstruksi, Makassar, Electrical Contractor, 1997-now
 - c. PT Tunggal Prima Teknik, Kendari, Electrical Contractor, 2000-now
5. Certifications or professional registrations:
 - a. Lecturer Certification (2010)
 - b. Lead of expert electrical power engineering, APEI & LPJK, 2000-now
 - c. Main Professional Engineer (IPU), Association of Indonesian Engineers (PII), 2017-now
6. Current membership in professional organization:
 - a. IEEE Computer Society, Member, 2013-now
 - b. International Association of Engineering (IAENG), Member, 2015-now
7. Honors and awards:
 - a. Best Graduate Program (S3) Hasanuddin University on graduation Period III Year 2012/2013.
 - b. Satyalancana Karya satya X Tahun,
 - c. Satyalancana Karya satya XX Tahun
8. Service activities (within and outside of the institution):
 - a. Assessor of Electricity Competency, Ministry of Energy and Mineral Resources (ESDM) of the Republic of Indonesia.

- b. Assessor of BAN-PT, National Accreditation Board - Higher Education (BAN-PT) Ministry of Ministry of Research, Technology and Higher Education
9. Briefly list the most important publications and presentations from the past five years.
 - a. Faizal Arya Samman, Khairul Jihadi, M. Arif Fitrayadi Said and Syafaruddin "Numerical Current Integration with Incident OCV Observation for Battery State-Of-Charge Estimation in Photovoltaic Systems", will be published in ICIC Express Letter, Part B: Applications.
 - b. Ansar Suyuti, Muh. Tola, Muh. Saleh Pallu, Nadjamuddin Harun, "Simple and portable Gas Emission Detector Design Using ATmega16", ICIC Express Lettes, Part B: Applications. An International Journal of Resarch and Surveys, Volume 4, Number 1, February 2013. ISSN 2185-2766.
 - c. Ansar Suyuti, "Web-Based Gas Emission Level Monitoring of Diesel Power plant Using Multi-sensors", International Journal of Engineering and Innpvative Technology (IJEIT), 2014.
 - d. Ansar Suyuti, Zaenab Muslimin, Ikhlas Kitta, Fitriyanti Mayasari. "Smart Electrical Installation for Apartment", International Journal of Engineering and Innpvative Technology (IJEIT), Volume 3, Issue 5, November 2013, page 274-276, ISSN: 2277-3754, ISO 9001:2008.
 - e. Ansar Suyuti, Sudirman Palaloi. "Analysis of the Use of Electricity in the Installation of Drinking Water Management", Enerlink, Jurnal Energi dan Lingkungan, Vol.10 No.2, Desember 2014, ISSN 0216-9541
 - f. Ansar Suyuti, Indar Chaerah G, Nuryahati, "PID Implementation on Real Time 3-phase Induction Motor Controlling and monitoring", Journal of Theoretical and Applied Information Technology, Vol. 89 No.2, 31st July 2016, ISSN: 1992 -8645.
 - g. Ansar Suyuti, Indrabayu, Herlina, "DSS for Evaluating Weighting Methodology Using Fuzzy AHP", International Journal of Emerging Research in Management &Technology ISSN: 2278-9359 (Volume-6, Issue-2, February 2017
 - h. Ansar Suyuti, Ikhlas Kitta and Yusri Syam Akil, "The Impact of The Operation Planning of Power Plants for Environmental Emissions in South Sulawesi", ARPN Journal of Engineering and Applied Sciences, ISSN 1819-6608, Vol. 12, No. 11, June 2017
10. Briefly list the most recent professional development activities: N/A

FACULTY VITAE

Sri Mawar Said

1. Name: Sri Mawar Said
2. Education:
 - a. Bachelor degree, Electrical Engineering, Universitas Hasanuddin, 1985
 - b. Master degree, Electrical Engineering, Universitas Hasanuddin, 2004
 - c. Doctor degree, Civil Engineering, Universitas Hasanuddin, 2014
3. Academic experience (in the Department of Electrical Engineering, Faculty of Engineering, Universitas Hasanuddin, Makassar, Indonesia):
 - a. Lecturer, 1986-now
 - b. Head of Basic Electrical Laboratory, (2010-2012)
 - c. Head of Electrical Machines Laboratory, 2016-now
4. Non-academic experience: N/A
5. Certifications or professional registrations
 - a. Lecturer Certification (2009)
6. Current membership in professional organizations
 - a. The Institution of Engineers Indonesia, Member, 2010-now
7. Honors and awards
 - a. *Satyalanjana Karya Satya 30 Tahun* (2017)
8. Service activities (within and outside of the institution): N/A
9. Briefly list the most important publications and presentations from the past five years
 - a. Sri Mawar Said, Salama Manjang, M.Wihardi Tjaronge, Muh. Arsyad Thaha: 'Arima Application as an Alternative Method of Rainfall Forecasts in Watershed of Hydro Power Plant', *International Journal of Computational Engineering Research (IJCER)*, Vol. 3, Issue 3, pp.68-73, 2013.
 - b. Sri Mawar Said, Salama Manjang, M.Wihardi Tjaronge, Muh. Arsyad Thaha: 'Electrical Energy Consumption Prediction in South–West Sulawesi Electrical Power System', *International Journal of Computational Engineering Research (IJCER)*, Vol. 3, Issue 3, pp.74-78, 2013.
 - c. Sri Mawar Said, Salama Manjang, M. Wihardi Tjaronge, Muh. Arsyad Thaha: 'Modelling of Water Resources in Bakaru Hydropower Plant in Anticipating Load Increment in Sulselbar Power System', *International Journal of Computational Engineering Research (IJCER)*, Vol. 4, Issue 8, pp.1-5, 2014.
 - d. Yusri Syam Akil, Saiful Mangnggenre, Sri Mawar, Kifayah Amar: 'Preliminary Study of Perception and Consumer Behaviour Towards Energy Saving for Household Appliances: A Case of Makassar', *Journal of Physics: Conference Series*, Vol. 979, pp. 1-6, 2018.

- e. Andi Nurtrimarini Karim, Sri Mawar Said, Indar Chaerah Gunadin, Mustadir Darusman B.: 'Impact of Penetration Wind Turbines on Transient Stability in Sulb-agsel Electrical Interconnection System,' Journal of Physics: Conference Series, Vol. 979, pp. 1-8, 2018.
- f. Syafaruddin, Muhammad Iqbal Abubakar, Hizkia Glorius Soma, Sri Mawar Said, Satriani Latief: 'Determination of Sensorless Input Parameters of Solar Panel with Adaptive Neuro-Fuzzy Inference System (ANFIS) Method', International Journal of Innovative Computing, Information and Control (IJICIC) Vol.14, No.6, December 2018

10. Briefly list the most recent professional development activities: N/A

FACULTY VITAE

Andani

1. Name: Andani
2. Education:
 - a. Bachelor degree, Electrical Engineering, Universitas Hasanuddin, 1986
 - b. Master degree, Electrical Engineering, Universitas Hasanuddin, 2000
 - c. Doctor degree, Electrical Engineering, Universitas Hasanuddin, 2010
3. Academic experience
 - a. Secretary of Electrical Engineering Department, Universitas Hasanuddin, (1997-2000)
 - b. Head of Electrical Engineering Department, Universitas Hasanuddin (2011-2016)
 - c. Dean of Engineering Faculty, Universitas Fajar, 2010-now
 - d. Head of Computer and Network Laboratory Electrical Department, Universitas Hasanuddin, 2012-now
4. Academic experience: N/A
5. Certifications of professional registrations: Lecturer Certification (2014)
6. Current membership in professional organizations:
 - a. Assessor Team of BAN PT
 - b. Engineer Profession
7. Honors and awards:
 - a. Satyalancana Karya Satya Award of 20 Years
8. Service activities (within and outside of the institution): N/A
9. Briefly list the most important publications and presentations from past five years
 - a. "Prototype of Vehicles Potholes Detection Based Blob Detection Method", Journal of Theoretical and Applied Information Technology, ISSN: 1992-8645., E-ISSN: 1817-3195 Vol. 95 No.1, 15 Januari 2017.
 - b. "Client Server Based of Channel Cable Distribution Information System Case Study of PT. Telkom, Tbk (Persero) Witel NTT", Prosiding Seminar Nasional Teknik ketenagalistrikan dan Teknologi Informasi (SNTKTI), Agustus 2015.
 - c. "Arduino Uno Microcontroller Based of Housing Security System", Journal Techno Entrepreneur Acta, Vol. 1 No. 1 Maret 2016, ISSN:2503-1767.
 - d. "Design of Microstrip Antennas for 4G Network Repaters Operating on 1800 MHz Frequency", Prosiding Smeinar Nasional Teknik Elektro dan Informatika (SNTEI), 2016.

- e. “Design and Implementation of Outdoor Hotspot Network Using M2 nanostation 2.4GHz Frequency with Voucher System on RT/RW-Net Microtic Network”, Journal Techno Entrepreneur Acta, Vol. 2 No. 2, 2017, ISSN:2503-1767

10. Briefly list the most recent professional development activities: N/A

FACULTY VITAE

Syafruddin Syarif

1. Name: **Syafruddin Syarif**
2. Education:
 - a. Bachelor degree, Electrical Engineering Universitas Hasanuddin (UNHAS), Makassar 1986
 - b. Master degree, Electrical Engineering Institut Teknologi Bandung (ITB) 1996
 - c. Doctor, Civil Engineering Universitas Hasanuddin (UNHAS), Makassar 2013
3. Academic Experience (in the Department of Electrical Engineering, Faculty of Engineering, Hasanuddin University, Makassar, INDONESIA):
 - a. Assistant (1989-1993), Lecture, (1993-2000), Senior Lecture, (2001-2005) Assistant Professor, (2005-2017) **Professor**, (2017-now)
4. Non-academic experience: (N/A)
5. Certifications or professional registrations: Lecturer Certification (2009)
6. Current membership in professional organizations: IEEE, Member (2018)
7. Honors and awards: Satyalancana Karya Satya XX (20) Tahun (2010)
8. Service activities (within and outside of the institution): (N/A)
9. Publications and presentations from past five years:
 - a. P. Yuyu, S. Syarif, M. Ahmad, *Effectiveness of Partograph Based on Computer System with Clinical Decision Making in Labor Process*, International Journal of Chem Tech Research, 2018
 - b. S. Sulkipli, S. Syarif, AL. Arda, *Controlling The Lights using Raspberry Pi*, Conference and call for paper, 2018, ojs.nitromks.ac.id
 - c. ZB. Hasanuddin, Syafruddin Syarif, Darniati Inal, *Zakah Management System Using Approach Classification*, www.journal.uad.ac.id, TELKOMNIKA (Telecommunication, Computing, Electronics and Control), Vol 15, No 4: December 2017
 - d. A. Toding, Syafruddin Syarif, *Improving Method MIMO Multi Relay Using Zero Forcing at Network System*, pp. 315-318, Prosiding Temu Nasional ke-11 FORTEI, 18-21 October 2017
 - e. Apriana Toding, Syafruddin Syarif, *Performance Analysis of MIMO Multi-Relay Networks With Zero-Forcing Equalizer*, International Conference on Industrial Technology for Sustainable Development (iCon-ITSD), 25-26 October 2017, Fakultas Teknologi Industri Universitas Muslim Indonesia
 - f. A. Lawi, F. Azis, S. Syarif, *Ensemble Gradient Boost for increasing classification accuracy of credit scoring*, Computer Applications and Information, 2017, ieeexplore.ieee.org
 - g. S. Syarif, A. Lawi, *Proposed Priority Packet Data Dissemination Scheduling Mechanism*, Computer Applications and Information, 2017, ieeexplore.ieee.org

- h. Arif Hidayat, Sutan Takdir Ali Munawar, Syafruddin Syarif, Andani Achmad, *LEO Antenna Ground Station Analysis using Fast Fourier Transform*, pp.88-92, International Symposium on Electronics, Control, Computer, and Information and Communication Technology, Proceedings 2017 7th International Annual Engineering Seminar (InAES2017), 1-2 August 2017 / UGM Yogyakarta, Indonesia, IEEE Xplore
- i. E. Palantei, Syafruddin Syarif, Arif Hidayat, Sutan Takdir Ali Munawar, *Low-cost switched Array-wide Band Antenna for Search and Rescue Disaster Management*, pp.131-135, Proceeding 2017 3rd International Conference on Science and Technology-Computer (ICST), July 11-12th 2017 / UGM Yogyakarta, Indonesia, IEEE Catalog Number: CFP17WOF-ART, ISBN: 978-1-5386-1874-5
- j. Arif Hidayat, Wahyudi Hasbi, E. Palantei, Syafruddin Syarif, Kendali Sakelar Empat Antena Bersusun untuk Penjejakan *Interference* Frekuensi TTC Satelit LAPAN (*Switch Control System for Four Array Antenna for Tracking of LAPAN'S*), Jurnal Teknologi Dirgantara (*Journal of Aerospace Technology*), JTD Vol. 15, No. 1, Juni 2017
- k. Syafruddin Syarif, Armin Lawi, *Proposed Priority Packet Data Dissemination Scheduling Mechanism*, Computer Applications and Information Processing Technology (CAIPT), 2017 4th International Conference on, 1-5, 2017, IEEE Xplore
- l. Syafruddin Syarif, *Trending Topic Prediction by Optimizing K-Nearest Neighbor Algorithm*, Computer Applications and Information Processing Technology (CAIPT), 2017 4th International Conference on, 1-4, 2017, ieeexplore.ieee.org
- m. A. Lawi, F. Azis, S. Syarif, *Ensemble Gradient Boost for Increasing classification accuracy of credit scoring*, Computer Applications and Information Processing Technology (CAIPT), 2017 4th International Conference on, 1-4, 2017, IEEE Xplore
- n. Syafruddin Syarif, Syafaruddin, Wardi dan Shinya Kobayashi, *Quality Analysis and Illegal Logging Image Detection using SYARITAR Method*, pp. 1093-1099. International Journal of Innovative Computing, Information & Control, Volume 11, Number 3, June 2015, ISSN: 1349-4198. <http://www.ijicic.org> (ter_index Scopus Q2)
- o. E. Palantei, Syafruddin Syarif, B. Topalaguna and Z. Ubaid, *Four Elements Array of Lungs Shape Patch Antenna for Nanosatellite Telemetry*, pp. 1808-1809. Proceeding of International Symposium on Antennas and USNC-URSI National Radio Science Meeting, July 7-13, 2013, Orlando, Florida, USA, IEEE Catalog No.CPP13APS-CDR, ISBN: 976-1-4673-5315-1, ISSN: 1522-3965
- p. Syafruddin Syarif, Nadjamuddin Harun, M. Tola, M. Wihardi Tjaronge, *Detection System of Illegal Logging Image Using Matching Process with Discrete Cosine Transform*, pp. 57-62. IJCER International Journal of Computational Engineering Research, Vol. 03 Issue, 6, June, 2013, ISSN: 2250-3005. www.ijceronline.com
- q. Syafruddin Syarif, N. Harun, M. Tola, M. W. Tjaronge, *Early Detection for Forest Illegal Logging at River Basin Area*, pp. 502-507. IJET Publications UK International Journal of Engineering and Technology, Volume 3 No. 5, May, 2013, ISSN: 2049-3444, www.iet.journals.org

10. Briefly list the most recent professional development activities: (N/A)

FACULTY VITAE

RHIZA S. SADJAD

1. Name: Rhiza S. Sadjad
2. Education:
 - a. Bachelor degree, Electrical Engineering, Institut Teknologi Bandung, 1981
 - b. Master degree, Electrical Engineering, University of Wisconsin, 1989
 - c. Doctor degree, Ph.D. Electrical Engineering, University of Wisconsin, 1994
3. Academic experience:
 - a. Lecturer (2000-2011), Assistant (1982-2000), Senior Lecturer, 2011-now
 - b. Head of Control Systems and Instrumentation Laboratory (1995)
 - c. Chairman of Computer, Control and Electronic Sub-Study Program (2010-2015)
 - d. Department of Electrical Engineering, Chairman (2003)
 - e. Focus Group Discussion on Curriculum, Chairman (2012-2017)
4. Non-academic experience:
 - a. PT Compact Microwave Indonesia, Bandung, System Engineer (1990-1995)
5. Certifications or professional registrations: Lecturer Certification (2012)
6. Current membership in professional organizations
 - a. IEEE, Student Member (1988-1994), Member, 2016-now
 - b. IEEE Instrumentation and Measurement Society, Member, 2016-now
7. Honors and awards: N/A
8. Service activities (within and outside of the institution): N/A
9. Briefly list the most important publications and presentations from the past five years:
N/A
10. Briefly list the most recent professional development activities: N/A

FACULTY VITAE

Syafaruddin

1. Name: Syafaruddin
2. Education
 - a. Bachelor degree, Electrical Engineering, Universitas Hasanuddin, 1996
 - b. Master degree, Electrical Engineering, University of Queensland, 2003
 - c. Doctor degree, Electrical Engineering, Kumamoto University, 2009
3. Academic experience (in Department of Electrical Engineering, Faculty of Engineering, Universitas Hasanuddin, Makassar, Indonesia):
 - a. Lecturer (1999-2002), Assistant Professor (2003-2013), Associate Professor (2014-2016), Professor, 2017-now
4. Non-academic experience
 - a. PT. Siemens Indonesia Site Planning Engineer Supervising and Network Testing
5. Certification or professional registration: National Institute of Construction Services Development, Indonesia
6. Current membership in professional organization:
 - a. Member, Indonesian Association of Electricity Engineering Experts
 - b. Honorary Member, Scientific & Technical Research Association (STRA) of Eurasia Research Group
7. Honors and awards
 - a. Dean's Commendation for High Achievement, Faculty of Engineering, Hasanuddin University, Indonesia, 1996
 - b. Australian Development Scholarship (ADS), Australia, 2003-2004
 - c. Dean's Commendation for High Achievement, Faculty of Engineering, Physics & Architecture, The University of Queensland, Australia, 2004
 - d. Monbukagakusho Scholarship, Japan, 2006-2009
 - e. Research Funding Program Supported by GRASIUS (Graduate School Action Scheme for Internationalization of University Students) of Kumamoto University, Japan, 2008
8. Service activities (within and outside of the institution):
 - a. Members, International Conference on Innovative Computing, Information and Control (ICICIC), 2017-2018
 - b. Technical Committee Chairs, International Conference on Green Energy (ICOGE), 2017
 - c. Technical Committee, International Conference on Power and Electrical Engineering (ICPEE), 2018
 - d. Conference Chairs, International Conference on Advanced Technologies in Energy and Electrical Engineering (AT3E), 2018
 - e. Conference Chairs, International Symposium on Green Energy and Smart Grid (SGESG), 2018

9. Briefly list the most important publications and presentations from past five years:
 - a. Syafaruddin, Ranu Fauzan, Andika S. Amir, Hajime Miyauchi: 'Microcontroller ATmega8535 Based Solar Tracker Design for PV System Applications in Equator Region', *International Journal of Control and Automation*, Vol.7, No.4, pp.217-234, April 2014
 - b. Syafaruddin, Dionisius Galla, Willy A.F.A Ajami, 'Design of boat powered photovoltaic systems', *Applied Solar Energy*, Vol.50, No.4, pp.207-214, October 2014
 - c. Syafaruddin, Nella Chintia Mendeng, Pilipus Master, Zaenab Muslimin, 'Real-Time and Continuous Output Power Monitoring of Photovoltaic (PV) Systems', *ICIC Express Letters: International Journal of Research and Surveys*, Vol.9, No.1, pp.9-16, January 2015
 - d. Syafaruddin, H. Narimatsu, Hajime Miyauchi, 'Optimal Energy Utilization of Photovoltaic Systems Using the Non-Binary Genetic Algorithm', *Energy Technology & Policy*, Vol.2, No.1, pp. 10-18, February 2015
 - e. Syafaruddin: 'Interval Type Two Fuzzy Logic System (IT2FLS) based Short-Term Load Forecasting', *ICIC Express Letters: International Journal of Research and Surveys*, Vol.9, No.9, pp. 2445-2452, September 2015
 - f. Syafaruddin, Faizal Arya Samman, Alfian, Muh. Aksa Idris, Siti Hamnah Ahsan and Satriani Latief: 'Characteristics Approach of Thin-Film CIGS PV Cells with Conventional Mono-Crystalline Silicon Model', *The International Journal of Innovative Computing, Information and Control (IJICIC)*, Vol.12, No.1, pp.171-180, February, 2016.
 - g. Syafaruddin, Zaenab Muslimin, Fathul Razak, Arnita Tri Ananda, Satriani Latief: 'Modeling and Simulation of Wind Power with Permanent Magnet Synchronous Generator (PMSG)', *ICIC Express Letters: International Journal of Research and Surveys*, Vol.10, No.9, pp. 2121-2127, September 2016.
 - h. Syafaruddin, Satriani Latief, Wahyu H. Piarah: 'Design of Photovoltaic-Thermal (PV/T) for Building Integrated Photovoltaic Systems', *Journal of Clean Energy Technology*, Vol.5, No.4, pp.304-309, July, 2017.
 - i. Syafaruddin, Faizal Arya Samman, Muslimin, Satriani Latief: 'Design of Automatic Control for Surface Cleaning Systems of Photovoltaic Panel', *ICIC Express Letters, Part B: Applications*, Vol.8, No.11, pp. 1457-1464, November 2017
 - j. Syafaruddin, Satriani Latief: 'A Simple Method for Determination of Electrical Characteristics in Different Photovoltaic (PV) Modules Technologies', *ICIC Express Letters*, Vol.12, No.9, pp. 871-880, September 2018
 - k. Syafaruddin, Muhammad Iqbal Abubakar, Hizkia Glorius Soma, Sri Mawar Said, Satriani Latief: 'Determination of Sensorless Input Parameters of Solar Panel with Adaptive Neuro-Fuzzy Inference System (ANFIS) Method', *International Journal of Innovative Computing, Information and Control (IJICIC)* Vol.14, No.6, December 2018
10. Recent professional development activities
 - a. Visiting Professor at Northern Illinois University, September-December 2018, USA
 - b. Visiting Researcher in Kumamoto University, July-September 2013, Japan
 - c. Project Assistant Professor in Kumamoto University, October 2009-March 2011, Japan

FACULTY VITAE

Zulfajri Basri Hasanuddin

1. Name: Zulfajri Basri Hasanuddin
2. Education:
 - a. Bachelor degree, Electrical Engineering, Universitas Hasanuddin, 1992
 - b. Master degree, Computer Science and Communication Engineering, Kyushu University, 1999
 - c. Doctor degree, Computer Science and Communication Engineering, Kyushu University, 2003
3. Academic experience:
 - a. Lecturer, 1993-now
 - b. Telematic Laboratory, Head, 2012-now
 - c. Satellite Communication Laboratory, Head, 2016-now
 - d. ICT Innovation Center, Head, 2018-now
4. Non-academic experience: N/A
5. Certifications or professional registrations: Lecturer Certification (2009)
6. Current membership in professional organization:
 - a. The Institution of Engineers Indonesia, Member, 2010-now
 - b. Member of the National Research Council of the Republic of Indonesia, 2012-now
 - c. Persada Jepang, 2012-now
 - d. The Observer in APEC-MMC Think Tank, 2017-now
7. Honors and awards:
 - a. Letter of Appointment as The Observer in APEC-MMC Think Tank in one year from November 1, 2007 to October 31, 2018
 - b. Certificate of Appreciation as Invited Speaker from various Institution
8. Service activities (within and outside of the institution): Dean of the Faculty of Engineering, West Sulawesi University, 2017-now
9. Briefly list the most important publications and presentations from the past five years:
 - a. AE Multazam, ZB Hasanuddin, Sistem Monitoring Kualitas Air Tambak Udang Vaname, JURNAL IT: Media Informasi STMIK Handayani Makassar 8 (2), 2018
 - b. MR Hidayat, A Charisma, M Arif, ZB Hasanuddin, S Sambasri, Empirical Study of Mobile Satellite Channel Characteristics in Indonesian Region, Wireless and Telematics (ICWT), 2017 3rd International Conference on, 191-194
 - c. K Mansur, ZB Hasanuddin, W Wardi, *Sistem Keamanan Informasi Pada Smart Gate Menggunakan Visual Basic*, Jurnal Penelitian Enjiniring (JPE) 21 (1), 48-53

- d. M. Amin, N. Harun, S. Pallu and Z.B. Hasanuddin, Sustainable Water Resources Management for Makassar City Using Fuzzy Logic-Based Micro Controller (A Case Study in Jeneberang River), Asian Academic Research Journal of Multidisciplinary, Vol. 4, Issue 7 (July 2017), ISSN: 2319-2801, pp. 128-136.
 - e. L.M. Ambia, F.R. Djumingin, F.A. Samman, Z.B. Hasanuddin, Design and Built Underwater Vehicle with Wireless Controlling Based on Arduino Microcontroller, MICEEI, Makassar, Indonesia, 26-30 November 2017.
 - f. Z.B. Hasanuddin, S. Syarif and D. Inal, Zakah Management System Using Approach Classification, TELKOMNIKA, Vol. 15, No. 4, December 2017
 - g. A Noer, ZB Hasanuddin, D Djamaluddin, Implementation of RFID based Raspberry Pi for User Authentication and Offline Intelligent Payment System, Quality in Research (QiR): International Symposium on Electrical and Computer Engineering, 2017, 15th International Conference
 - h. Y.U. Sombolayuk, N. Harun, H. Parung, Z.B. Hasanuddin, Early Detection System of Fire Hazard in High-Rise Buildings as a Result of Electrical Installation Failure, Asian Academic Research Journal of Multidisciplinary, Vol. 4, Issue 7 (July 2017), - ISSN: 2319-2801, pp. 112-119.
 - i. Z.B. Hasanuddin, Design of Ka-band Satellite Links in Indonesia, The International Conference on Satellite and Space Communication in Paris on August 2014.
 - A. A. F. Himawan, Z. B. Hasanuddin, F. A. Samman, Perancangan Sistem Sensor dan Akuator Nirkabel Untuk Sistem SCADA Berbasis PLC, Jurnal Nasional Teknik Elektro dan Teknologi Informasi, Vol. 3, No. 3, 2014.
 - j. Keynote Speaker in The International Conference on Satellite and Space Communication, Paris, France, 2014 with title “Design of Ka-band Satellite Links in Indonesia”, 2014.
 - k. Keynote Speaker pada Makassar International Conference on Electrical Engineering and Informatics (MIICEI) 2014, The Trends of ICT Research in Indonesia, Makassar Golden Hotel, 26 November 2014.
 - l. Speaker in Focal Point SCMIT pada ASEAN COST 72, ICT Programs in Indonesia, Press Conference Hall, ICC, Bandar Seri Begawan, Brunei Darussalam, 22-25, Mey 2017.
 - m. Keynote Speaker in “The 10th China-ASEAN Education Cooperation Week” pada panel two: The Present Situation and Trend of ICT Industry-Education Integration in Developing Countries, ICT Research and Innovation Activities in Indonesia, Hall Center, Guiyang, Guizhou, China, 29 July 2017.
 - n. Keynote Speaker The 4th APEC Internet of Vehicles Symposium, IoT for ITS Research Project in Indonesia, Shanghai Automobile Exhibition Center, Shanghai, China, 14-16 September, 2017.
10. Briefly list the most recent professional development activities:
- a. Local Point of ASEAN Sub Committee for Microelectronics and Information Technology, Indonesian Representative, 2016-now
 - b. The Observer in APEC-MMS Think Tank, for 2017-2018

FACULTY VITAE

Dewiani

1. Name: Dewiani
2. Education
 - a. Bachelor degree, Electrical Engineering, Universitas Hasanuddin, 1993
 - b. Master degree, Electrical Engineering, Institut Teknologi Bandung, 2000
 - c. Doctor degree, Electrical Engineering, Kumamoto University, 2013
3. Academic experience:
 - a. Lecturer (1994-2003), Assistant Professor (2004-2015), Associate Professor, 2016-now
4. Non-Academic Experience: N/A
5. Certification or professional registration: N/A
6. Membership in professional organization
 - a. Member of IEEE
 - b. Member of PII (Indonesian Engineer Association)
 - c. Member of IATEL (Electrical Engineer Association), Universitas Hasanuddin
 - d. Member of CoT (Center of Technology), Universitas Hasanuddin
7. Honors and awards:
 - a. URGE (University Research for Graduate Education) Scholarships, Directorate General of Higher Education (DIKTI), Ministry of National Education, Indonesia; period 1996-1997
 - b. BPPS Scholarships from Directorate General of Higher Education (DIKTI), Ministry of National Education, Indonesia; period 1997-2000
 - c. TPSDP Grant, Directorate General of Higher Education (DIKTI), Ministry of National Education, Indonesia; period 2007
 - d. Research Grant 2007-2009 awarded by Directorate General of Post and Telecommunication, Ministry of Communication and Information, Republic of Indonesia to develop the Plug and Play Smart Antenna for the Next Wireless Communication System.
 - e. DIKTI Scholarships from Directorate General of Higher Education (DIKTI), Ministry of National Education, Indonesia; period 2009-2013
 - f. Research Grant 2014-2015 awarded by SDPPI, Directorate General of Post and Telecommunication, Ministry of Communication and Information, Republic of Indonesia to develop "Sistem Antena Reconfigurable Beamsteerable dan Friendly Environment Dengan Struktur Striplin Mikro Untuk Perangkat Komputasi Bergerak LTE-Advanced"
 - g. Short Term Research Fellowship Grant from JICA (Japan International Cooperation Agency) as Part of Universitas Hasanuddin Engineering Faculty Development Project. The research fellowship program commenced since the mid of July until mid of October 2013 at Tokyo University of Science (TUS), Tokyo, Japan

- h. Research Grant 2014-2015 awarded by SDPPI, Directorate General of Post and Telecommunication, Ministry of Communication and Information, Republic of Indonesia to develop “Sistem Antena Reconfigurable Beamsteerable dan Friendly Environment Dengan Struktur Stripmikro Untuk Piranti Komputasi Bergerak LTE-Advanced”
8. Service activities (within and outside of the institution):
 - a. International Committee, 1st Makassar International Conference on Electrical Engineering & Informatics (MICEEI) 4-5 November 2008, Universitas Hasanuddin, Kampus Tamalanrea, Makassar, Indonesia.
 - b. Reviewer of International Conference on MICEEI (Makassar International Conference in Electrical Engineering and Informatics), Makassar Golden Hotel (MGH), 29 November-1 December 2014, Losari Beach, Makassar, Indonesia.
 9. Briefly list the most important publications and presentations from the past five years:
 - a. “The Simulation of Vehicle Counting System for Traffic Surveillance using Viola-Jones Method,” Proceedings of 4rd MICEEI 26 – 30 November 2014, Makassar Golden Hotel (MGH), Makassar, Indonesia, ISBN: 978-1-4799-6725-4, hal. 237.
 - b. “High Gain CP Antenna for Mobile Satellite Communications Numerically Evaluated under Various Packaging Materials,” Proceedings of 4rd MICEEI 26 – 30 November 2014, Makassar Golden Hotel (MGH), Makassar, Indonesia. ISBN: 978-1-4799-6725-4, hal. 139.
 - c. “Movement Effect on Electrical Properties of UWB Microwave Antenna During Breast Tumor Diagnostic Scanning”, Proceeding of 2nd Asia Pasific Conference on Wireless and Mobile (APWiMob) 27 – 29 August 2015, Bandung, Indonesia, ISBN: 978-1-4799-8290-5 hal. 188-191
 - d. “Early Stage Cancer Detection Technique Considering the Reflected Power from Breast Tissues”, ARPN Journal of Engineering and Applied Sciences, 2015. Vol. 10, No. 17, p. 7361-7367, September 2015, ISSN 1819-6608
 - e. “Vehicles Potholes Detection Based Blob Detection Method and Neural Network Backpropagation Model”, Proceedings of the 6th Annual International Conference Syiah Kuala University (AIC Unsyiah) in conjunction with the 12th International Conference on Mathematics, Statistics and Its Application (ICSMA), 4-5 October 2016
 - f. “Cosstalk Reduction for Network Multicore Fiber with Management Core and Spectrum Method”, Journal of Theoretical and Applied Information Technology (JATIT), 15th January 2017. Vol.95. No.1, pp 139 -146, SSN: 1992-8645, E-ISSN: 1817-3195
 - g. “Prototype of Vehicles Potholes Detection Based Blob Detection Method”, Journal of Theoretical and Applied Information Technology, Vol.95. No 11, 15 June 2017
 - h. “Implementation of RFID based raspberry Pi for user authentication and offline intelligent payment system”, 15th International Conference on Quality in Research (QiR): International Symposium on Electrical and Computer Engineering, December 2017, 978-602-50431-1-6/17
 10. Briefly list the most recent professional development activities:
 - a. Visiting Researcher in Tokyo University of Science (TUS), Tokyo, July-September 2013, Japan

FACULTY VITAE

Faizal Arya Samman

1. Name: Dr.-Ing. Ir. Faizal Arya Samman
2. Education:
 - a. Bachelor degree, Electrical Engineering, Universitas Gadjah Mada, 1999
 - b. Master degree, Electrical Engineering, Universitas Gadjah Mada, 2002
 - c. Doctor degree, Electrical Engineering, Technische Universität Darmstadt, 2010
3. Academic experience:
 - a. Fraunhofer Institute LBF, Darmstadt, Germany, Research Fellow (2010-2012), part time
 - b. Head of Electronic and Device Laboratory, (chair), 2017-now, full time
4. Non-academic experience: N/A
5. Certifications or professional registrations: Indonesian Professional Engineer (*Insinyur*)
6. Current membership in professional organization: N/A
7. Honors and awards:
 - a. DAAD Scholarship Award, 2006-2010, to pursue doctoral degree in Germany.
 - b. The 10-Year National Badge “Satya Lencana Karya Satya”, 2018, from the President of the Republic of Indonesia.
 - c. Best paper award in the 2018 International conference on Applied Electromagnetic Technology.
8. Service activities (within and outside of the institution):
 - a. 2017, Training on maintenance of electric installation with standard secure and economical operation in Botolempangan Village, Maros Regency.
 - b. 2016, Design and maintenance of photovoltaic-based electric power generation in Mangepong Village (remote area), Jeneponto Regency.
9. Briefly list the most important publications and presentations from the past five years:
 - a. Faizal Arya Samman, Khairul Jihadi, M. Arif Fitrayadi Said and Syafaruddin “Numerical Current Integration with Incident OCV Observation For Battery State-Of-Charge Estimation In Photovoltaic Systems”, will be published in ICIC Express Letter, Part B: Applications.
 - b. Faizal A. Samman and Thomas Hollstein, “Design Concept and Microarchitecture Of Network-On-Chip With Best-Effort And Guaranteed-Throughput Services”, International Journal of Innovative Computing, Information and Control (IJICIC), will be published in vol. 15, no. 1, Feb. 2019.
 - c. Faizal A. Samman, Dea Fatriziah Hamkah, Made Dharma Budy Diatmika and Ida Rahmianar Sahali, “Voltage Regulator Using a DC-DC Converter Controlled by

Interpolated PI Gain Scheduler for Solar Charge Applications”, ICIC Express Letters, an International Journal of Research and Surveys, ICIC Express Letters, planning to publish in vol.12, no.11, November 2018.

- d. Faizal A. Samman, Ma'arif Hasan, Tirza Damayanti. "Side Effects of Damping Element Insertion in LCL Filter for DC/AC Inverter", International Journal of Power Electronics and Drive Systems (IJPEDS), vol. 8, no. 1, March 2018.
 - e. Faizal A. Samman, Abd. Azis Rahmansyah, Syafaruddin. "Peak Bracketing And Decrement Window-Size Scanning-Based MPPT Algorithms For Photovoltaic Systems", International Journal of Innovative Computing, Information and Control (IJICIC), vol. 14, no. 3, June 2018. ISSN: 1349-4198.
 - f. Syafaruddin, Muslimin, Faizal A. Samman, Satriani Latief. "Design of Automatic Control for Surface Cleaning Systems of Photovoltaic Panel", ICICI Express Letter Part B: Applications, An International Journal of Research and Surveys, vol. 8, Issue 11, Nov. 2017.
 - g. Mahfuzh Shah Mustari, Asbar Amri, Faizal A. Samman, Muhammad Tola. "Remotely Operated Vehicle for Surveillance Applications On and Under Water Surface", International Journal on Smart Material and Mechatronics (IJSMM), vol. 3 no. 1, 2016, Pages: 170-173. p-ISSN: 2356-5314, e-ISSN: 2460-075X.
 - h. Syafaruddin, Faizal A. Samman, Alfian, Muh. Aksa Idris, Siti Hamnah Ahsan, Satriani Latief. "Characteristics Approach of Thin-Film CIGS PV Cells with Conventional Mono-Crystalline Silicon Model", International Journal of Innovative Computing, Information and Control (IJICIC). vol. 12, no. 1, Feb. 2016, pages 171-180. ISSN: 1349-4198.
 - i. Faizal A. Samman. "Runtime Connection-Oriented Guaranteed-Bandwidth Network-on-Chip with Extra Multicast Communication Service", Elsevier Science Journal, Microprocessors and Microsystems - Embedded Hardware Design, vol. 38, no. 2, March, 2014, pages: 170-181. ISSN: 0141-9331.
 - j. Pongyupinpanich Surapong and Faizal A. Samman. "Floating-Point Division Operator based on CORDIC Algorithm", ECTI Transactions on Computer and Information Technology, vol. 7, no. 1, pp. 80-88, May 2013. ISSN: 1905-050X.
 - k. Faizal A. Samman and Pongyupinpanich Surapong, "Concept and Microarchitecture of a Streaming Processor Specialized for Biomeditronic and Adaptronic Applications", Internasional Journal of Applied Biomedical Engineering (IJABME), vol. 6, no. 1, Des. 2013.
 - l. Faizal A. Samman, T. Hollstein, M. Glesner. "Runtime Contention- and Bandwidth-Aware Adaptive Routing Algorithms for Networks-on-Chip". IEEE Transaction on Parallel and Distributed Systems, vol. 24, no. 7, Juli 2013, pages 1411-1421, ISSN: 1045-9219, doi: 10.1109/TPDS.2012.200.
10. Briefly list the most recent professional development activities:
- a. Research Project (2016-2018): National Strategic Outstanding Research Grant funded by Ministry of Research, Technology and Higher Education of the Republic of Indonesia.
 - b. Research Project (2016-2018): Post-Graduated Collegium Research Grant funded by Ministry of Research, Technology and Higher Education of the Republic of Indonesia.

FACULTY VITAE

Indar Chaerah Gunadin

1. Name: Indar Chaerah Gunadin
2. Education:
 - a. Bachelor degree, Electrical Engineering, Universitas Hasanuddin, 1997
 - b. Master degree, Electrical Engineering, Institut Teknologi Sepuluh Nopember, 2006
 - c. Doctor degree, Electrical Engineering, Institut Teknologi Sepuluh Nopember, 2013
3. Academic experience:
 - a. Relay and Measurement Laboratory, Head of Laboratory, 2013-now
 - b. Associate Professor, 2000-now
 - c. Lecturer, 1998-now
4. Non-academic experience:
 - a. PT. Makassar Power Indonesia, Control Room, Electrical Operator, 1997-1998
5. Certification or professional registration: Lecturer Certification (2014)
6. Current membership in professional organization:
 - a. Member, Indonesian Association of Electricity Engineering Experts
 - b. Caretaker, Electrical Engineering Alumni of Universitas Hasanuddin, 2014-2019
7. Honors and awards: N/A
8. Service activities (within and outside of the institution).
 - a. Reviewers, Makara Journal of Technology, Indonesia University, 2017-now
9. Briefly list the most important publication and presentation from past five years.
 - a. Indar Chaerah Gunadin, Zaenab Muslimin, Yusran: 'Steady State Stability Assesment Using Continous Power Flow Based on Load Tap Changer' International Journal of Applied Engineering Research (IJAER), ISSN 0973-4562 Volume 12, Number 24 (2017)
 - b. Indar Chaerah Gunadin, Zaenab Muslimin, Agus Siswanto, 'Transient Stability Improvement Using Allocation Power Generation Methode Based on Momen Inertia', 2017 International Conference on Electrical Engineering and Informatics (ICELTICs) ISBN: 978-1-5386-2934-1, October 18-20, 2017 Banda Aceh, Indonesia
 - c. Zaenab Muslimin, Indar Chaerah Gunadin, Muhammad Anshar 'Comparative Study of the Effect of Temperature of Miniature Sun with Spotlights on Solar Pond', Proceedings of the National Seminar on Electrical and Informatics Engineering, SBN: 978-602-18168-2-6, pp 247 – 251, November 20, 2017 Makassar, Indonesia
 - d. Indar Chaerah Gunadin, Sri Mawar Said, Muhammad Irsan, 'Determination of

- Stability Index of Electrical Power System Using REI-Dimo Methods', Journal of Theoretical and Applied Information Technology, 15th August 2016. Vol.90. No.1, pp.161-167.
- e. Ansar Suyuti, Indar Chaerah Gunadin, Nurhayati, 'PID Implementation on Real Time 3-Phase Induction Motor Controlling and Monitoring', Journal of Theoretical and Applied Information Technology, 31st July 2016. Vol.89. No.2, pp. 495-501
 - f. Steven Humena, Salama Manjang, Indar Chaerah Gunadin, "Optimization Economic Power Generation Using Modified Improved PSO Algorithm Methods", Journal of Theoretical and Applied Information Technology, 30th November 2016. Vol.93. No.2, pp. 522-530
 - g. Andi Nurtrimarini, Sri Mawar Said, Indar Chaerah Gunadin, Mustadir Darusman B, "Impact of Penetration Wind Turbines on Transient Stability in Sulbagsel Electrical Interconnection System". Journal of Physics: Conference Series, 2018. 979(1): p. 012028.
 - h. Nur Fadliah, B., G. Indar Chaerah, and Yusran, Solar Pond Potential as A New Renewable Energy in South Sulawesi. Journal of Physics: Conference Series, 2018. 979(1): p. 012039.
10. Recent professional development activities:
- a. Visiting Researcher in Kumamoto University, September-December 2015, Japan

FACULTY VITAE

Intan Sari Areni

1. Name: Intan Sari Areni
2. Education
 - a. Bachelor degree, Electrical Engineering, Universitas Hasanuddin, 1998
 - b. Master degree, Electrical Engineering, Universitas Gadjah Mada, 2003
 - c. Doctor degree, Electrical Engineering, Ehime University, 2013
3. Academic experience:
 - a. Lecturer, Telecommunication and Electronics Engineering, (2000-2003)
 - b. Assistant Professor, Telecommunication and Information, (2004-2019)
 - c. Associate Professor, Telecommunication and Information, 2010-now
4. Non-Academic Experience: N/A
5. Certification or professional registration: Research Reviewer Standards of SNI ISO/IEC 17024: 2012, LSP Quantum HRM International
6. Current membership in professional organization:
 - a. Member, The Institution of Engineers Indonesia, 2016-present
 - b. Member, International Association of Engineers (IAENG), 2018
7. Honors and awards:
 - a. Dean's Commendation for High Achievement, Faculty of Engineering, Universitas Hasanuddin, Indonesia, 1998.
 - b. JBIC Scholarships, from JICA (Japan International Cooperation Agency) as Part of Universitas Hasanuddin, Engineering Faculty Development Project, Japan; Period October 2009-March 2013.
 - c. Short Term Research Program Grant, from JICA (Japan International Cooperation Agency) as Part of Universitas Hasanuddin, Engineering Faculty Development Project, Japan; Period October 2015-January 2016.
 - d. JICA Knowledge Co-Creation Program, JICA, Japan, 8-14 July 2018
8. Service activities (within and outside of the institution):
 - a. Local Organizing Committee, Makassar International Conference on Electrical Engineering and Informatics (MICEEI), 2014.
 - b. Technical Program Chair, International Conference on Computational Intelligence and Cybernetics (Cybernetics.com), 2016.
 - c. Organizing Committee, EPI International Conference on Science and Engineering, 2018.
9. Briefly list the most important publications and presentations from the past five years:
 - a. Intan Sari Areni, Asmah Akhriana, Elyas Palantei, Sukriyah Buwarda: "Utilization of HF Electromagnetic Waves Availability for Charging Mobile Communication Device", Makassar International Conference on Electrical Engineering and Informatics (MICEEI), Makassar Golden Hotel, 26-30

November 2014.

- b. Elyas Palantei, Ashadi Amir, Dewiani, Intan Sari Areni, Andani: "Early Stage Cancer Detection Technique Considering the Reflected Power from Breast Tissues", ARPN Journal of Engineering and Applied Sciences, Vol. 10, No. 17, 2015.
- c. Elyas Palantei, Intan Sari Areni, Muh.Fahmi Rustan, dan Ardiansyah: "Improvement of UWB Patch Transducer Properties Applicable for Fetal Monitoring System", IEEE Asia Pasific Conference on Wireless and Mobile (ApWiMob), Bandung, 27-29 August 2015.
- d. Indrabayu, Baizul Saman, Amil A. Ilham, Intan Sari Areni: "Prediction of Reagents Needs Using Radial Basis Function in Teaching Hospital", International Journal of Engineering and Technology (IJETIY), Vol. 4, No.17, 2015.
- e. Intan Sari Areni, Elyas Palantei, Ansar Suyuti, Adnan, Weni Sri Yusnita, Heni Susanti: "Attenuation Measurement of Laboratory-Based PLC Implementation", Vol.8, No.1, 2016.
- f. Zahir Zainuddin, Intan Sari Areni, Raden Wirawan: "Augmented Reality Application in Smart Building Information System", Jurnal Nasional Teknik Elektro dan Teknologi INformasi (JNTETI) – Universitas Gadjah Mada, Vol. 5, No. 3, August 2016.
- g. Christoforus Y., Indrabayu, Ingrid Nurtanio, Reza Maulana, Intan Sari Areni, Elly Warni: "Apriori Algorithm for Surgical Consumable Material Standardization", International Organization Of Scientific Research (IOSR), Vol. 18, Issue 6, Ver III, Nov-Dec 2016.
- h. Anugrahyani, Intan Sari Areni, Indrabayu, Novy Nurrahmillah: "Speech to Text for Indonesian Homophone Phrase with Mel Frequency Cepstral Coefficient", International Conference on Computational Intelligence and Cybernetics (Cyberneticscom), SwissBel-Hotel Makassar, 22-23 Nov 2016.
- i. Adnan, Intan Sari Areni, Muh. Iqbal, Yuni Andayani: "Smart Laboratory System Using Raspberry Pi 2", Icic Express Letters, Part B: Applications, Vol. 8, Number 4, Pp. 763-766, April 2017.
- j. Intan Sari Areni, Anugrahyani, Indrabayu: "Improvement in Speech to Text for Bahasa Indonesia Through Homophone Impairment Training", Journal of Computers (Taiwan), Vol. 28, No. 5, pp. 1-10, 2017.
- k. Intan Sari Areni, Asyrafu Insan Asry, Indrabayu: "A hybrid feature extraction method for accuracy improvement in "Aksara Lontara" translation", Journal of Computer Science, Vol.13, Issue 9, pp. 393-399, 2017.
- l. Intan Sari Areni, Sri Wahyuni, Indrabayu: "Solution to Abbreviated Words in Text Messaging for Personal Assistant Application", International Seminar on Application for Technology of Information and Communication (ISEMANTIC), Semarang, 7-8 October 2017.
- m. Indrabayu, Rizki Yusliana Bakti, Intan Sari Areni: "A Modified Pinhole Camera Model for Automatic Speed Detection of Diagonally Moving Vehicle", Journal of Engineering Science and Technology Vol. 13, No. 6 (2018), pp. 1722 – 1734, 2018.

10. Briefly list the most recent professional development activities:

- a. Short Term Research Program, October 2015 – January 2016

FACULTY VITAE

Zaenab

1. Name: Zaenab
2. Education:
 - a. Bachelor degree, Electrical Engineering, Universitas Hasanuddin, 1990
 - b. Master degree, Electrical Engineering, Universitas Hasanuddin, 2004
3. Academic experience:
 - a. Lecturer, 1992-now
 - b. Relay and Measurement Laboratory, Secretary, 2002-2012
 - c. Department of Electrical Engineering, Secretary, 2007-2011
4. Non-academic experience:
 - a. CV. Duta Teknik Utama, Person in Charge of Engineering, (1993-2014)
 - b. PT. Andira Jaya Raya, Person in Charge of Engineering, 2014-now
5. Certifications or professional registrations: Lecturer Certification (2009)
6. Current membership in professional organization: IEEE, Student Member, (2017-2018)
7. Honors and awards: N/A
8. Service activities (within and outside of the institution): N/A
9. Briefly list the most important publications and presentations from the past five years.
 - a. Zaenab Muslimin, Indar Chaerah Gunadin, Muhammad Anshar ‘Comparative Study of the Effect of Temperature of Miniature Sun with Spotlights on Solar Pond’, Proceedings of the National Seminar on Electrical and Informatics Engineering, SBN: 978-602-18168-2-6, pp 247 – 251, November 20, 2017 Makassar, Indonesia
 - b. Indar Chaerah Gunadin, Zaenab Muslimin, Agus Siswanto, ‘‘Transient Stability Improvement Using Allocation Power Generation Methode Based on Momen Inertia’, 2017 International Conference on Electrical Engineering and Informatics (ICELTICs) ISBN: 978-1-5386-2934-1, October 18-20, 2017 Banda Aceh, Indonesia
 - c. Indar Chaerah Gunadin, Zaenab Muslimin, Yusaran: ‘Steady State Stability Assesment Using Continous Power Flow Based on Load Tap Changer’ International Journal of Applied Engineering Research (IJAER), ISSN 0973-4562 Volume 12, Number 24 (2017)
 - d. Syafaruddin, Zaenab Muslimin, Fathul Razak, Arnita Tri Ananda, Satriani Latief: ‘Modeling and Simulation of Wind Power with Permanent Magnet Synchronous Generator (PMSG), ICIC Express Letters: International Journal of Research and Surveys, Vol.10, No.9, pp. 2121-2127, September 2016.

- e. Syafaruddin, Nella Chintia Mendeng, Pilipus Master, Zaenab Muslimin, 'Real-Time and Continuous Output Power Monitoring of Photovoltaic (PV) Systems', ICIC Express Letters: International Journal of Research and Surveys, Vol.9, No.1, pp.9-16, January 2015

10. Briefly list the most recent professional development activities: N/A

FACULTY VITAE

Yusran

1. Name: Yusran
2. Education:
 - a. Bachelor degree, Electrical Engineering, Universitas Hasanuddin, 1998
 - b. Master degree, Electrical Engineering, Universitas Gadjah Mada, 2002
 - c. Doctor degree, Electrical Engineering, Institut Teknologi Sepuluh November, 2013
3. Academic experience:
 - a. Assistant Lecturer (2002-2004), Lecturer (2004-2008)
 - b. Associate Professor, 2008-now
 - c. Head of Power Electronic Laboratory, 2015-now
 - d. Secretary of Student Affair, 2018-now
4. Non-academic experience: Electrical Power Engineer in PT INCO, Sorowako (Co-Ops Program), (2004-2005)
5. Certifications or professional registrations: Lecturer Certification (2014)
6. Current membership in professional organization: IATKI (2016 – now)
7. Honors and awards:
 - a. The 10-Year National Badge “Satya Lencana Karya Satya”, 2014, from the President of the Republic of Indonesia.
8. Service activities (within and outside of the institution): N/A
9. Briefly list the most important publications and presentations from the past five years.
 - a. Yusran, Ashari, M., and Soeprijanto, A., “Optimization Scheme of Distributed Generation Installation Growth Considering Network Power Quality”, Journal of Theoretical and Applied Information (JATIT), Vol. 53, No.1, 2013, pp. 30-39, ISSN 1992-8645, E-ISSN 1817-3195
 - b. Yusran, “Electrical Network Power Quality Improvement Through Distributed Generation Optimum Placement Based on Breeder Genetic Algorithm Method” The 4th Makassar International Conference on Electrical Engineering and Informatics (MICEEI) 2014, ISBN 978-1-4799-6725-4
10. Briefly list the most recent professional development activities: N/A

FACULTY VITAE

Muhammad Bachtiar Nappu

1. Name: Muhammad Bachtiar Nappu
2. Education:
 - a. Bachelor degree, Electrical Engineering, Universitas Hasanuddin, (1994-1999)
 - b. Master degree, Electrical Engineering, Institut Teknologi Bandung, (1999-2001)
 - c. M.Phil., Electrical Engineering, the University of Queensland, (2007-2009)
 - d. Doctor degree, Electrical Engineering, University of Queensland, (2009-2013)
3. Academic experience:
 - a. Head of Research and Development Center on Energy and Electricity, Research and Community Services Institute, 2016-now
 - b. Lecturer, 2003-now
4. Non-academic experience: N/A
5. Certifications or professional registrations: Lecturer Certification
6. Current membership in professional organizations: N/A
7. Honors and awards: N/A
8. Service activities (within and outside of the institution):
 - a. 2017, Speaker/ facilitator of Community Services Project for primary school students and teachers in Makassar, "Education for the usage of solar energy as an alternative and environmentally friendly energy for primary school community", Makassar.
9. Briefly list the most important publications and presentations from the past five years
Journal publications:
 - a. M.B. Nappu, A. Arief and R.C. Bansal, "Transmission Management for Congested Power System: A Review of Concepts, Technical Challenges and Development of a New Methodology" Renewable and Sustainable Energy Reviews, ELSEVIER, Vol. 38, pp. 572–580, doi:10.1016/j.rser.2014.05.089, October 2014.
 - b. M.B. Nappu, R.C. Bansal, T.K. Saha, "Market Power Implication on Congested Power System: A Case Study of Financial Withheld Strategy", International Journal of Electric Power and Energy Systems (IJEPES), vol. 47, pg. 408-415, ELSEVIER, May 2013. <http://dx.doi.org/10.1016/j.ijepes.2012.09.016>
 - c. A. Arief, Z.Y. Dong, M.B. Nappu, and M. Gallagher, "Under Voltage Load Shedding in Power Systems with Wind Turbine-Driven Doubly Fed Induction Generators" Electric Power System Research, ELSEVIER, vol. 96, pp. 91-100, doi:10.1016/j.epsr.2012.10.013, March 2013.
 - d. A. Arief, Antamil and M.B. Nappu, "Analytical Method for Reactive Power Compensators Allocation", International Journal of Technology, Volume 9(3), pp. 602-612, Scopus indexed, ISSN: 2086-9614, 2018.

- e. M.B. Nappu, A. Arief and A.S. Duhri, "Economic Emission Dispatch for Thermal Power Plant in Indonesia", accepted for publication in International Journal of Smart Grid and Clean Energy (IJSGCE), ISSN: 2315-4462, Scopus indexed, 2018.
- f. W.A. Ajami, A. Arief and M.B. Nappu, "Optimal power flow for power system interconnection considering wind power plants intermittency" accepted for publication in International Journal of Smart Grid and Clean Energy (IJSGCE), ISSN: 2315-4462, Scopus indexed, 2018.
- g. W.S. Alfira, M.B. Nappu and A.Arief, "Under Voltage Load Shedding Simulation for Southern Sulawesi Power System with Integration of Wind Power Plants", accepted for publication in Advance Science Letter, Scopus indexed, ISSN: 1936-6612, 2018.
- h. M.B. Nappu and A. Arief, "Network Losses-Based Economic Redispatch for Optimal Energy Pricing in a Congested Power System", Energy Procedia, ELSEVIER, Volume 100, November 2016, Pages 311-314, <https://doi.org/10.1016/j.egypro.2016.10.183>
- i. A. Arief, Antamil and M.B. Nappu, "An Analytical Method for Optimal Capacitors Placement from the Inversed Reduced Jacobian Matrix", Energy Procedia, ELSEVIER, Volume 100, November 2016, Pages 307-310, <https://doi.org/10.1016/j.egypro.2016.10.182>

Conference Presentations:

- a. M.B. Nappu, A. Arief, and M.I. Bachtiar, "Strategic Placement of Capacitor and DG for Voltage Improvement after Large Penetration of Renewable Energy Power Plant: An Indonesian Study", to be presented at the 7th International Conference on Renewable Energy Research and Applications (ICRERA 2018), 14-17 October 2018, Paris, France.
- b. M.B. Nappu, A. Arief and A.S. Duhri, "Economic Emission Dispatch for Thermal Power Plant in Indonesia", to be presented at the 5th International Conference on Power and Energy Systems Engineering (CPESE 2018), 19-21 September 2018, Nagoya University, Nagoya, Japan
- c. M.B. Nappu, A. Arief, "Network Losses-Based Economic Redispatch for Optimal Energy Pricing in a Congested Power System", the 3rd International Conference on Power and Energy Systems Engineering (CPESE 2016), 8-10 September 2016, Kitakyushu, Japan.
- d. M.B. Nappu, M.I. Bachtiar, A. Arief, "Network Losses Reduction Due To New Hydro Power Plant Integration", the 3rd International Conference on Information Technology, Computer and Electrical Engineering (ICITACEE 2016), 19 – 21 October 2016, Semarang, Indonesia.
- e. M.B. Nappu, A. Arief, "Economic Redispatch Considering Transmission Congestion for Optimal Energy Price in a Deregulated Power System", International Conference on Electrical Engineering and Informatics (ICEEI 2015), Denpasar – Bali, Indonesia, August 10-11, 2015.

10. Briefly list the most recent professional development activities: N/A

FACULTY VITAE

Wardi

1. Name: Wardi
2. Education:
 - a. Bachelor degree, Electrical Engineering, Universitas Hasanuddin, 1997
 - b. Master degree, Telecommunication Engineering, University of South Australia, 2006
 - c. Doctor degree, Electrical Engineering and Computer Science, Ehime University, 2012
3. Academic experience:
 - a. Lecturer, (2007), Assistant Professor, 2007-now, full time.
4. Non-academic experience:
 - a. Siemens Telecommunication, Junior Engineer, Network Planning and Implementation, 1997-1998.
 - b. Ehime University, Post-Doctoral, Short Term Research, July-October 2013.
5. Certifications or professional registrations: MTCNA Mikrotik.
6. Current membership in professional organization: Indonesian Engineer Association
7. Honors and awards: N/A
8. Service activities (within and outside of the institution):
 - a. Internal Auditor of ISO 9001:2015 for Universitas Hasanuddin, 2018-now
 - b. Head of Networking and Infrastructure Division in Directorate of System and Information Technology, Universitas Hasanuddin, 2015-now
 - c. Secretary for Student Affair of Electrical Engineering Department, Universitas Hasanuddin, (2003-2004)
9. Briefly list the most important publications and presentations from the past five years.
 - a. Elyas Palantei, Ashadi Amir; Wardi; Intan Sari Areni; Dewiani; Sukriyah Buwarda. High Gain CP Antenna for Mobile Satellite Communications Numerically Evaluated under Various Packaging Materials. Makassar International Conference on Electrical Engineering and Informatics (MICEEI). Makassar, Indonesia, November 2014.
 - b. Intan Sari Areni; Wardi; Indrabayu; Zaenab Muslimin; Fitnyanti Mayasari Pembuatan Modul Perhitungan Control Cost Pembangkit Tenaga Uap. *Seminar Nasional Teknik Energi dan Ketenaga Listrikan* (SNTEK). Makassar, Indonesia, August 2014.
 - c. Jalaluddin; Abdul Rasyid Jalil; Rustan Tarakka; Wardi. Pemberdayaan Masyarakat dengan Pemanfaatan Sumber Energi Terbarukan pada Tambak Udang. *Agrokreatif Jurnal Ilmiah Pengabdian Kepada Masyarakat*. 2015. Vol.1(2).
 - d. Khairunnisa Mansur; Zulfajri B Hasanuddin; Wardi. Implementation of NFC for Smart Gate Access Control in Campus Area. Proceedings of the International

Conference on Science and Technology (ICOSAT 2017). Jakarta, Indonesia, August 2017.

- b. Syafruddin Syarif; Syafaruddin; Wardi; Shinya Kobayashi. Quality Analysis and Illegal Logging Image Detection Using SYARITAR Method. *International Journal of Innovative Computing, Information and Control (IJICIC)*. 2015. Vol. 11(3).
- c. Wardi, Andani Achmad, Zulfajri B Hasanuddin; Darmaji Asrun; Mohammad Syaiful Luthfi. Portable IP-Based Communication System using Raspberry Pi as Exchange. *International Seminar on Application for Technology of Information and Communication*. Semarang, Indonesia, October 2017.
- d. Wardi, Dewiani, Andini Dani Ahmad, Rima Wahyuningsih, Pebrina Hardianti Tokanu Sistem Pengaman dan Pelacak Kendaraan Berbasis Arduino Mega2560. *Seminar Nasional Sains dan Teknologi*. Makassar, Indonesia, September 2016.
- e. Wardi; Indrabayu; Dewiani; Sri Haryati B; Rida Ariyanti Z. Performance evaluation of personal computer on mobile cloud for virtual smartphone based. *Journal Penelitian Enjinereng (JPE)*. 2013. Vol. 8(1).
- f. Wardi; Intan Sari Areni; Andani Achmad; Irma Pratiwi Sayuti. Evaluasi Unjuk Kerja Jaringan Ad Hoc Berbasis Protokol AODV. *Seminar Nasional Aplikasi Teknologi Informasi 2014 (SNATi)*. Yogyakarta, Indonesia, June 2014.
- g. Wardi; Zulkifli Tahir; Adnan. Performance Evaluation OLSR Routing Protocol in a Testbed Environment. *International Workshop on Modern Research Methods in Electrical Engineering and Informatics (IWORMEE)*. Makassar, Indonesia, September 2013.
- h. Zahir Zainuddin; Wardi; Yurika Nantan. Applying Maritime Wireless Communication to Support Vessel Monitoring. *The 4th International Conference on Information Technology, Computer and Electrical Engineering*. Semarang, Indonesia, October 2017.

10. Briefly list the most recent professional development activities:

- a. JICA Counterpart Training Course, Japan, September 2016.

FACULTY VITAE

A. Ejah Umraeni Salam

1. Name : A.Ejah Umraeni Salam
2. Education:
 - a. Bachelor degree, Electrical Engineering, Universitas Hasanuddin, 1996
 - b. Master degree, Electrical Engineering, Institut Teknologi Sepuluh Nopember, 2002
 - c. Doctor degree, Electrical Engineering, Universitas Hasanuddin, 2015
3. Academic experience:
 - a. Lecturer (1997-2002), Asistant Professor (2002-2015), Associate Professor, 2015-now
4. Non-academic experience:
 - a. PT. Oval Plan, Member consultant Electrical Engineering, Electrical Project Installation, 2010-now
5. Certification or professional registration: Lecturer Certification (2011)
6. Current membership in professional organization:
 - a. Member, Electrical Engineering Alumni Association, Universitas Hasanuddin, 1998-now
 - b. Member of ISLT (International Symposium on Lowland Technology), Saga University, Japan, 2014
 - c. Member of IEEE, 2017-now
7. Honors and awards:
 - a. A scholarship for short-term research for the Hasanudddin University Engineering Faculty Development Project under JBIC Loan No.IP-541, 2015
 - b. BPPS Scholarship, Doctoral Program from Indonesia Government, (2011-2014)
 - c. BPPS Scholarship, Magister Program from Indonesian Government, (1999-2002)
8. Service activities (within and outside of the institution):
 - a. Local Organizing Commitee, The International Workshop on Modern Research in Electrical Engineering (IWoRMEE 2013), Makassar, Indonesia, 2013.
 - b. Conference Chairs, Electrical Engineering, Computer Science and Informatics (EECSI 2014), Yogyakarta, Indonesia, 2014
 - c. Electrical Engineering (IWoRMEE 2013), Makassar, Indonesia, 2013.
 - d. Conference Chairs, International Conference on Engineering & Science Technology Innovation (ICESTI 2014), Bali, Indonesia, 2014

- e. Conference Chairs, International Symposium on Lowland Technology (ISLT 2014), di Japan, Tahun 2014
 - f. Conference Chairs Makassar, International Conference On Electrical Engineering And Informatics (MICEEI 2014), Makassar, 2014
 - g. Training Renewable Energy. Power System Laboratory, Sepuluh Nopember Institute of Technology, Surabaya, Indonesia, Agustus, 2016
9. Briefly list the most important publications and presentations from the past five years:
- a. A.Ejah U, Muh.Tola, Mary S, Farouk M, “Application Extreme Learning Machine To Predict Location And Magnitude”, International Journal of Innovative, Science, Engineering & Technology, Of Pipe Leak On Water Distribution Network”, Published Vol.1 Issue 9, November 2014. ISSN: 2348-7968.
 - b. A.Ejah U, Muh.Tola, Mary S, Farouk M,” On-Line Monitoring System Water Leak Detection In Pipe Networks With Artificial Intellegence”, ARPN Journal of Engineering and Applied Sciences, Vol.9. No.10.Oktober 2014, ISSN: 1819-6608.
 - c. A.Ejah U, Muh.Tola, Mary S, Farouk M, “Application Of ASTAR And RBF-NN To Predict Location And Magnitude Of Pipe Leak On Water Distribution Network”, Proceeding International Symposium on Lowland Technology, 9th ISLT 2014 September 29 – October, 2014, Saga Japan, ISSN : 4 -921090-06-8.
 - d. A.Ejah U, Muh.Tola, Mary S, Farouk M,” Web Based Real time Water Pressure Monitoring System”, Proceeding Electrical Engineering, Computer Science and Informatics, EECSI 2014 Conference, 20 -21 August 2014, Yogyakarta. ISSN : 978-602-70504-0-2.
 - e. A.Ejah U, Muh.Tola, Mary S, Farouk M,” Water Leakage Detection System Of Pipe Line Using Radial Basis Function Neural Network”, Proceeding International Seminar on Infrastructure Development, 2nd ISID 2014, June 3, 2014, Balikpapan, Indonesia, ISSN : 978-979-530-131-8.
 - f. A.Ejah U, Muh.Tola, Mary S, Farouk M,” A Leakage Detection System on the Water Pipe Network through Support Virtual Machine Method”, Proceeding Makassar International Conference On Electrical Engineering And Informatics, MICEEI 2014, 26-28 November 2014, Makassar, Indonesia. ISSN : 978-1-4799-6725-4.
10. Briefly list the most recent professional development activities
- a. A short term Research Program, in Ehime University, October 2015 – December 2015, Japan

FACULTY VITAE

Merna Baharuddin

1. Name: Merna Baharuddin
2. Education:
 - a. Bachelor degree, Electrical Engineering, Universitas Hasanuddin, 1999
 - b. Master degree, Electrical Engineering Monash University, 2002
 - c. Doctor degree, Electrical Engineering, Chiba University, 2010
3. Academic experience:
 - a. Lecturer (2005-2011), Assistant Professor, 2012-now
4. Non-Academic Experience:
 - a. PT. Bukaka SingTel International, Junior Project Engineer, Data Network Analyser, 2000
5. Certification or professional registration: N/A
6. Current membership in professional organization: N/A
7. Honors and awards:
 - a. Australian Development Scholarship (ADS), Australia, 2000-2002
 - b. Monbukagakusho Scholarship, Japan, 2006-2010
8. Service activities (within and outside of the institution).
 - a. Committee Member, The 13th CEReS International Symposium on Remote Sensing: Disaster Monitoring and Mitigation in Asia, 29 October 2007, Chiba, Japan
 - b. Committee Member, The 3rd Indonesia Japan Joint Scientific Symposium (IJSS 2008), 9-11 September 2008 at Chiba University, Japan
 - c. Committee Member, International Workshop on Synthetic Aperture Radar (IWSAR 2009), February 16, 2009 at Chiba University, Japan.
 - d. Committee Member, The 2nd Makassar International Conference on Electrical Engineering and Informatics (MICEEI) 2010 at Makassar, Indonesia.
9. Briefly list the most important publication and presentation from past five years
 - a. Merna Baharuddin, Zulfajri B. Hasanuddin, Misdawati, and Khairunnisa Mansur: 'A Waterproof Ultrasonic Sensing System for Locating Fish in Underwater Area', International Journal of Engineering and Science Applications, Vol.3, no 2, pp. 201-206, November 2016.
 - b. Merna Baharuddin, 'Pengukuran dan Analisis Kualitas Sinyal Satelit untuk Aplikasi Land Mobile Satellite (LMS) terhadap Ketinggian dan Sudut Elevasi Penerima Global Positioning System (GPS)', Seminar Nasional Fisika 2013, Universitas Hasanuddin, Makassar, Nop 2013, Makassar.
 - c. Merna Baharuddin, Elyas Palantei, 'A Preliminary experiment on transmitter and receiver of nanosatellite for telemetry application', 4th Makassar International Conference on Electrical Engineering and Informatics (MICEEI), Nop 2014, Makassar.

- d. Merna Baharuddin, Elyas Palantei, 'Prototipe Receiver untuk Charging Perangkat Bergerak via Sinyal Radio Frequency (RF)', Seminar Nasional Teknologi Industri Politeknik ATI Makassar (SNTI IV 2016), November 2016, Makassar.
10. Briefly list the most professional professional development activities
- a. Visiting Researcher in Chiba University, July-September 2013, Japan

FACULTY VITAE

Yusri Syam Akil

1. Name: Yusri Syam Akil
2. Education:
 - a. Bachelor degree, Electrical Engineering, Universitas Hasanuddin, 2001
 - b. Master degree, Electrical Engineering, Universitas Hasanuddin, 2005
 - c. Doctor degree, Electrical Engineering, Kumamoto University, 2013
3. Academic experience:
 - a. Lecturer, 2005-now
4. Non-academic experience: N/A
5. Certifications or professional registrations: Lecturer Certification (2014)
6. Current membership in professional organization: International Association of Engineers, Member, 2013-now
7. Honors and awards:
 - a. Netherlands Fellowship Programmes (NFP), The Netherlands, 2015.
 - b. The 10-Year National Badge “Satya Lencana Karya Satya”, 2018, from the President of the Republic of Indonesia
8. Service activities (within and outside of the institution):
 - a. International Journal on Advanced Science, Engineering and Information Technology (IJASEIT), Reviewer, 2017-now
 - b. Makara Journal of Technology, Reviewer, 2017-now
 - c. International Journal of Engineering and Technology Innovation (IJETI), Reviewer (2017)
 - d. International Conference on Science and Engineering (ICSE), Scientific Committee (2017)
 - e. International Conference on Electrical, Electronics and Information Engineering (ICEEIE), Technical Committee (2017)
 - f. International Seminar on Intelligent Technology and Its Applications (ISITIA), Reviewer (2015)
9. Briefly list the most important publications and presentations from the past five years.
 - a. Yusri Syam Akil, Saiful Mangngenre, Sri Mawar, and Kifayah Amar, “Preliminary Study of Perception and Consumer Behaviour Towards Energy Saving for Household Appliances: A Case of Makassar”, Journal of Physics: Conference Series, Vol. 979, pp. 1-6, 2018
 - b. Yusri Syam Akil, and Yasunori Mitani, “Seasonal Short-Term Electricity Demand Forecasting under Tropical Condition using Fuzzy Approach Model,” Journal of

- Telecommunication, Electronic, and Computer Engineering (JTEC) Special Issue, Vol. 9, No.1-3, pp. 77-82, 2017
- c. Ansar Suyuti, Ikhlas Kitta, and Yusri Syam Akil, "The Impact of the Operation Planning of Power Plants for Environmental Emissions in South Sulawesi," *ARNP Journal of Engineering and Applied Sciences*, Vol. 12, No.11, pp.3440-3444, 2017
 - d. Faizal A. Samman, Yusri Syam Akil, and Nirwan A. Noor, "Design and Testing of Boost Type DC/DC Converter for DC Motor Control Applications," *Proc. of the 2nd International Symposium on Smart Material and Mechatronics 2015*, pp. 79-83, Gowa, Indonesia, 2015
 - e. Salama Manjang, Rizki P. Putra, Yusri Syam Akil, and Ikhlas Kitta, "Electrical and Mechanical Properties of Fly Ash Filled Silicone Rubber for High Voltage Insulator," *ARNP Journal of Engineering and Applied Sciences*, Vol. 10, No.17, pp.7320-7327, 2015
 - f. Yusri Syam Akil, and Hajime Miyauchi, "Seasonal Peak Characteristic Comparison Analysis by Hourly Electricity Demand Model," *International Journal of Energy and Power Engineering*, Vol. 3, No. 3, pp. 132–138, 2014
 - g. Yusri Syam Akil, Syafaruddin, Tajuddin Waris, and A. A. H. Lateko, "The Influence of Meteorological Parameters under Tropical Condition on Electricity Demand Characteristic: Indonesia Case Study," *Proc. of the 1st International Conference on Information Technology, Computer, and Electrical Engineering*, pp. 381-385, Semarang, Indonesia, 2014
 - h. Yusri Syam Akil, and Hajime Miyauchi, "Seasonal Regression Models for Electricity Consumption Characteristics Analysis," *Engineering*, Vol. 5, No. 1B, pp. 108–114, 2013
 - i. Yusri Syam Akil, and Hajime Miyauchi, "Seasonal Peak Electricity Demand Characteristics: Japan Case Study," *International Journal of Energy and Power Engineering*, Vol. 2, No. 3, pp. 136–142, 2013
10. Briefly list the most recent professional development activities:
- a. Course on 'Competency Development Program and Professional Engineering Certification', The Institution of Engineers Indonesia, 2014, Indonesia
 - b. Short Course Program on 'Basic Analysis of Environmental Impact Assessment', Centre for Environmental Research and Development, Institute for Research and Community Service, Universitas Hasanuddin, 2015, Indonesia
 - c. Short Course in UNESCO-IHE, Institute for Water Education, September 2015, The Netherlands.
 - d. Visiting Researcher in Kyushu Institute of Technology, October – December 2015, Japan.

FACULTY VITAE

Ardiaty Arief

1. Name: Ardiaty Arief
2. Education:
 - a. Bachelor degree, Electrical Engineering, Universitas Hasanuddin, 2001
 - b. Master degree, Electrical Engineering, University of New South Wales, 2004
 - c. Doctoral degree, Electrical Engineering, the University of Queensland, 2012
3. Academic experience:
 - a. Lecturer, 2001-now
4. Non-academic experience:
 - a. Internship at Powerlink Queensland, Australia (2009)
5. Certifications or professional registrations: Lecturer Certification
6. Current membership in professional organizations: N/A
7. Honors and awards:
 - a. Maude Walker Award, 2008
Awarded by the University of Queensland, Australia for the first-year postgraduate research student.
8. Service activities (within and outside of the institution):
 - a. Speaker/ facilitator of Community Services Project for primary school students and teachers in Makassar, “Education for the usage of solar energy as an alternative and environmentally friendly energy for primary school community”, Makassar, 28 September 2017
9. Briefly list the most important publications and presentations from the past five years:
Journal publications:
 - a. Arief, Z.Y. Dong, M.B. Nappu, and M. Gallagher, “Under Voltage Load Shedding in Power Systems with Wind Turbine-Driven Doubly Fed Induction Generators” Electric Power System Research, ELSEVIER, vol. 96, pp. 91-100, doi:10.1016/j.epsr.2012.10.013, March 2013.
 - b. M.B. Nappu, A. Arief and R.C. Bansal, “Transmission Management for Congested Power System: A Review of Concepts, Technical Challenges and Development of a New Methodology” Renewable and Sustainable Energy Reviews, ELSEVIER, Vol. 38, pp. 572–580, doi:10.1016/j.rser.2014.05.089, October 2014.
 - a. Arief, Antamil and M.B. Nappu, “Analytical Method for Reactive Power Compensators Allocation”, International Journal of Technology, Volume 9(3), pp. 602-612, Scopus indexed, ISSN: 2086-9614, 2018.

- c. M.B. Nappu, A. Arief and A.S. Duhri, "Economic Emission Dispatch for Thermal Power Plant in Indonesia", accepted for publication in International Journal of Smart Grid and Clean Energy (IJSGCE), ISSN: 2315-4462, Scopus indexed, 2018.
- d. W.A. Ajami, A. Arief and M.B. Nappu, "Optimal power flow for power system interconnection considering wind power plants intermittency" accepted for publication in International Journal of Smart Grid and Clean Energy (IJSGCE), ISSN: 2315-4462, Scopus indexed, 2018.
- e. W.S. Alfira, M.B. Nappu and A. Arief, "Under Voltage Load Shedding Simulation for Southern Sulawesi Power System with Integration of Wind Power Plants", accepted for publication in Advance Science Letter, Scopus indexed, ISSN: 1936-6612, 2018.
- a. Arief, Antamil and M.B. Nappu, "An Analytical Method for Optimal Capacitors Placement from the Inversed Reduced Jacobian Matrix", Energy Procedia, ELSEVIER, Volume 100, November 2016, Pages 307-310, <https://doi.org/10.1016/j.egypro.2016.10.182>
- f. M.B. Nappu and A. Arief, "Network Losses-Based Economic Redispatch for Optimal Energy Pricing in a Congested Power System", Energy Procedia, ELSEVIER, Volume 100, November 2016, Pages 311-314, <https://doi.org/10.1016/j.egypro.2016.10.183>

Conference Presentations:

- a. A. Arief, Antamil and M.B. Nappu, "An Analytical Method for Optimal Capacitors Placement from the Inversed Reduced Jacobian Matrix", presented at the International Conference on Power and Energy Systems Engineering (CPSE 2016), Kitakyushu, Japan, 8 – 12 September 2016.
- b. A. Arief and M. B. Nappu, "Voltage Drop Simulation at Southern Sulawesi Power System Considering Composite Load Model", Proceedings of the 3rd International Conference on Information Technology, Computer and Electrical Engineering (ICITACEE 2016), Semarang, 19-20 October 2016
- c. A. Arief and M.B. Nappu, "Optimum DG Placement and Size with Continuation Power Flow Method", presented at the 5th International Conference on Electrical Engineering and Informatics (ICEEI), Kuta, Bali, Indonesia, 10-11 August 2015.
- d. A. Arief, "Optimal Placement of Distributed Generations with Modified P-V Modal Analysis", presented at the 4th Makassar International Conference on Electrical Engineering and Informatics (MICEEI), Makassar, Indonesia, 26-30 November 2014.
- e. A. Arief, "DG Placement with Modified V-P Modal Analysis for Voltage Stability Improvement", presented at the International Workshop on Modern Research Methods in Electrical Engineering (IWORMEE), Makassar, South Sulawesi, Indonesia, 5 September 2013.

10. Briefly list the most recent professional development activities: N/A

FACULTY VITAE

Hasniaty A.

1. Name: Hasniaty A.
2. Education:
 - a. Bachelor degree, Electrical Engineering, Universitas Hasanuddin, 1998
 - b. Master degree, Electrical Engineering, Universitas Gadjah Mada, 2002
3. Academic experience:
 - a. Lecturer, 2000-now
 - b. International Publication Capacity Enhancement Committee, Chairman, 2017
 - c. International Publication Capacity Enhancement Committee, Chairman, 2018
4. Non-academic experience: N/A
5. Certifications or professional registrations: N/A
6. Current membership in professional organizations: N/A
7. Honors and awards: N/A
8. Service activities (within and outside of the institution): N/A
9. Briefly list the most important publications and presentations from the past five years:
N/A
10. Briefly list the most recent professional development activities: N/A

FACULTY VITAE

Muh Anshar

1. Name: Muh Anshar
2. Education:
 - a. Bachelor degree, Electrical Engineering, Universitas Hasanuddin, 1999
 - b. Master degree, Computer Science by Research, University of Technology Sydney, 2009
 - c. Doctor degree, Computer Systems, Technische Universität Darmstadt, University of Technology Sydney, 2017
3. Academic experience:
 - a. Senior Lecturer (2016-now), Lecturer (2005-2016), Assistant (2003-2005)
 - b. Basic Electric Laboratory, Associate Head, (2009-2011)
 - c. Students Affairs, Electrical Engineering Department, Head, (2009-2011)
 - d. Robotics Development Group, Director, (2005-2012)
 - e. Indonesia-Australia Social Robotics Research Collaboration, Director, 2016-now
4. Non-academic experience: part time in a private engineering company
 - a. PT National Panasonic Gobel Indonesia- Branch Makassar, 1997
 - b. PT Industri Kapal Indonesia IKI, Makassar, 1997-1998
5. Certifications or professional registrations: Lecturer Certification (2011)
6. Current membership in professional organization: BICA Society, Member (2015 - 2016)
7. Honors and awards:
 - a. Australia Partnership Scholarship - APS Australia Aid, (2006-2009)
 - b. Australia Leadership Award - ALA Australia Aid, (2012 -2016)
8. Service activities (within and outside of the institution):
 - a. Quality Enhancement of Clean Water Supply in Remote Region Maros South Sulawesi (QECeWaS), under the funding of Australian Alumni Grant Scheme (AGS) 2nd Round 2017
9. Briefly list the most important publications and presentations from the past five years.
 - a. Evolving Artificial Pain from Fault Detection Through Pattern Data Analysis, co-author: Mary-Anne Williams, Proceedings of the 2017 IEEE International Conference on Real-time Computing and Robotics (IEEE RCAR 2017) Okinawa, Japan (14-18 July 2017)
 - b. Evolving synthetic pain into an adaptive self-awareness framework for robots, co-author: Mary-Anne Williams, Journal of Biologically Inspired Cognitive Architectures, Vol. 16, Pages 8-18, Elsevier, 2016.
 - c. Australia Partnership Scholarship - APS Australia Aid, (2006-2009)

10. Briefly list the most recent professional development activities:
 - a. Leadership Workshop, Canberra, 2012

FACULTY VITAE

Andini Dani Achmad

1. Name: Andini Dani Achmad
2. Education:
 - a. Bachelor degree, Electrical Engineering, Universitas Hasanuddin, 2009
 - b. Master degree., Electrical Engineering, Universitas Hasanuddin, 2013
3. Academic experience:
 - a. Chairman, Program Study of Electrical Engineering, Universitas Fajar, (2014-2016)
 - b. Lecturer, Electrical Engineering, Universitas Fajar, (2011-2016)
 - c. Lecturer, Electrical Engineering, Universitas Hasanuddin, 2015-now
4. Non-academic experience: N/A
5. Certifications of professional registrations: Lecturer Certification (2014)
6. Current membership in professional organization: N/A
7. Honors and award: N/A
8. Service activities (within and outside of the institution): N/A
9. Briefly list the most important publications and presentations from past five years:
 - a. "Client Server Based of Channel Cable Distribution Information System Case Study of PT. Telkom, Tbk (Persero) Witel NTT", Prosiding Seminar Nasional Teknik ketenagalistrikan dan Teknologi Informasi (SNTKTI), Agustus 2015.
 - b. "Arduino Uno Microcontroller Based of Housing Security System", Journal Techno Entrepreneur Acta, Vol. 1 No. 1 Maret 2016, ISSN:2503-1767.
 - c. "Design of Microstrip Antennas for 4G Network Repaters Operating on 1800 MHz Frequency", Prosiding Smeinar Nasional Teknik Elektro dan Informatika (SNTEI), 2016.
 - d. "Design and Implementation of Outdoor Hotspot Network Using M2 nanostation 2.4GHz Frequency with Voucher System on RT/RW-Net Microtic Network", Journal Techno Entrepreneur Acta, Vol. 2 No. 2, 2017, ISSN:2503-1767
10. Briefly list the most recent professional development activities: N/A

FACULTY VITAE

Ida Rachmaniar Sahali

1. Name: Ida Rachmaniar Sahali
2. Education:
 - a. Bachelor degree, Electrical Engineering, Universitas Hasanuddin, 2005
 - b. Master degree, Electrical Engineering, Institut Teknologi Bandung, 2012
3. Academic experience:
 - a. Assistant Lecturer (2012-2014), Lecturer, 2014-now
4. Non-academic experience:
 - a. Network Element Engineer, PT Indosat, Tbk, Makassar, (2006-2008)
5. Certifications or professional registrations: Lecturer Certification (2016)
6. Current membership in professional organizations: N/A
7. Honors and awards: N/A
8. Service activities (within and outside of the institution): N/A
9. Briefly list the most important publications and presentations from the past five years:
 - a. Christoforus Yohannes, Ida Rachmaniar Sahali, Wahyu Eko Pribadi, M. Taufan Yusuf – Controlling Temperature, Humidity and Light Intensity in Green House using Microcontroller based – Proceeding of Seminar Ilmiah Nasional Sains dan Teknologi Ke-2 – Makassar, September 7-8th, 2016.
 - b. Mukarramah Yusuf, Arisal Saila and Ida Sahali – pandaisejarah: Toward Implementation of Indonesian History with Teaching Pedagogy – Proceeding of International Seminar on Application for Technology of Information and Communication – Semarang, August 5-6th, 2016.
 - c. Ida Rachmaniar Sahali, Intan Sari Areni, Budianingsih, Dedi Setiawan, Fahmi - Implementation and Realization of Supply Chain Management to Accelerate Inventory Process in Pervasive Environment Case Study: Purchase of Medicine Online via Mobile Phone – Proceeding of Seminar Nasional Teknik Informatika (SNATIKA), Makassar, September 6th, 2013.
10. Briefly list the most recent professional development activities: N/A