Handy Wicaksono, S.T., M.T., Ph.D.

Associate Professor
Electrical Engineering Department
Petra Christian University
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EDUCATION

Ph.D. from School of Computer Science and Engineering, University of New South Wales (Australia) *Dissertation: "A Relational Approach to Tool Creation by a Robot"* *Supervisor: Prof. Claude Sammut*	2014 – 2019
M.T. (master degree) from Electrical Engineering Department, Sepuluh Nopember Institute of Technology (Indonesia) *Thesis: Compact Fuzzy Q Learning Implementation for Legged Autonomous Robot Navigation* *Supervisor: (the late) Dr.Eng., Ir. Son Kuswadi*	2007 – 2009
S.T. (bachelor degree) from Electrical Engineering Department, Sepuluh Nopember Institute of Technology (Indonesia) *Final project: Implementation of PID Controller on ASCII Module for Controlling DC Motor Speed by using PLC Omron C200H* *Supervisor: Josaphat Pramudijanto, S.T., M.Eng.*	1998 – 2003

WORK EXPERIENCE

Dean of Faculty of Industrial Technology, PCU	2025 - now
Head of Electrical Engineering Department (EED), PCU	2022 – 2025
Lead EED to get funded by Program Kompetisi Kampus Merdeka- Dikti	2024
Lead EED to get General Accreditation from IABEE and "Unggul" from LAM Teknik	2023
Establishing Internet of Things Laboratory in EED, PCU	2022
Visiting Fellow, UNSW Sydney	2023
Secretary of EED, PCU	2020 – 2021
Head of Telematics Laboratory, EED, PCU	2019 – 2020
Tutor & Laboratory Demonstrator, UNSW Sydney	2014 – 2017
Head of Control System Laboratory, EED, PCU	2009 – 2013
Senior Lecturer in EED, PCU	2004 – now

SCHOLARSHIPS, AWARDS, AND GRANTS

Scholarships

International Postgraduate Scholarship (BPP-LN) from Ditjen Dikti *Pursuing a doctoral degree in the School of Computer Science and Engineering, UNSW*	2014 – 2017
Postgraduate Education Scholarship (BPPS) from Ditjen Dikti *Pursuing a master degree in Electrical Engineering Department, ITS*	2007 – 2009

Awards

Petra Kencana Karya – 20 years service recognition award by PCU	2024
Petra Award – Lecturer with Best Research Performance in Exact Science and Engineering 2023	2023
Best Paper - 6th ICITESEE (AMIKOM, Yogyakarta) *"Towards Autonomous Robot Application and Human Pose Detection for Elders Monitoring"*	2022
Best Paper in Electrical Engineering - 4th ICET4SD (UII, Yogyakarta) *"Industrial Internet of Things for Condition-based Maintenance of an Induction Motor"*	2021

Research grants

Higher Education Excellent Applied Research Grant (PTUPT) from Dikti *"Integrated Smart System to Assist Home Care Service for Elders"*	2021 - 2023
Matching Fund Grant (Kedaireka) from Dikti *In collaboration with PT Insan Sejahtera Engineering & PT Sun Paper Source* *"Industrial Internet of Things Solution for Small Medium Enterprise"*	2022
Internal Research Grant from LPPM PCU *"Condition-based Maintenance using Industrial IoT to Maximize Factory Efficiency"*	2020
Excellent Research Grant from Faculty of Industrial Technology PCU *"Augmented Reality and Machine Learning-based Smart Maintenance System"*	2020
Competitive Research Grant from DP2M – Dikti *"Semi-Autonomous Telepresence Robot"*	2013
Internal Research Grant from LPPM PCU *"Patrol Robot Prototype using Kinect to Detect Human Fall Detection"*	2012
Internal Research Grant from LPPM PCU *"Patriot : Teleautonomous Mobile Robot for Search & Rescue Application"*	2011
Young Lecturer Research Grant (PDM) from DP2M – Dikti *"Adaptive Potential Field Behavior Coordination and Compact Q-Learning for Autonomous Mobile Robot Navigation System"*	2010

Community service and teaching grants

Teaching Innovation Grant from ELTC PCU *"Digital Learning Module Development (MOOC) for Industrial IoT course"*	2025
Teaching Innovation Grant from ELTC PCU *"Project-based learning in AI in Robotics and Automation course"*	2024
Teaching Innovation Grant from ELTC PCU *"Smart house simulator hardware to support Automation 2 course"*	2023
Teaching Innovation Grant from ELTC PCU *"Project-based learning implementation on Internet of Things course"*	2022
Teaching Practicioner Grant from Dikti (Indonesian government) on *"Automation 1 course"*	2022
Internal Community Service Grant from LPPM PCU *"Skill Upgrading to improve competences of Student and Teacher in SMK Kristen Petra"*	2020
Teaching Innovation Award from ELTC PCU *"Distance learning module for Automation 1 course"*	2020

Textbook grant from Research Center PCU 2008
Book title: "Programmable Logic Controller – Teori, Pemrograman dan Aplikasinya dalam Otomasi Sistem" (bahasa Indonesia)

Researcher mobility and travel grants

"World Class Professor Program" from Indonesian Ministry of Education, Culture, Research and Technology 2023
In collaboration with Prof. Claude Sammut (UNSW Australia)

Travel Support Scholarship from IEEE 2014
Attending the IEEE-RAS Response Robotics Summer School in Perth, Australia

International Conference Grant from DP2M – Ditjen Dikti 2011
Attending URAI 2011 in Incheon, South Korea

International Conference Grant from DP2M – Dikti and "Student Travel Grant Award" from conference OC 2009
Attending ICCAS – SICE 2009 in Fukuoka, Japan

Capacity development grants

"South East Asia – International Dean Course 2026" from DAAD, Germany 2026
As the Dean of Faculty of Industrial Technology – PCU

"Program Kompetisi Kampus Merdeka" from Indonesian Ministry of Education, Culture, Research and Technology 2024
As the Head of Electrical Engineering Dept. – PCU, head of team

RESEARCH INTERESTS (PROJECTS)

Research interests

Smart manufacturing, artificial intelligence in robotics and automation, active assisted living

Current research projects

Integrated system to assist elders in a home care scenario 2021 - now
We combine a mobile robot, a smart home system, and a wearable device to assist elders who live independently

Automatic defect detection system using deep learning 2021 – now
Design and implementation of an automatic defect detection system that is applied in a factory setting

AI for predictive maintenance 2021 – now
Using an AI system for predictive maintenance application

Low-cost IIoT-based automation system for small and medium enterprises 2019 - now
Design and implementation of modern automation system for SMEs by utilizing essential and affordable system components

Tool-use learning and creation by a robot via a relational approach 2014 – now
We develop a relational learning algorithm to enable a robot to learn to use a human tool to complete a task. If needed, it may create a 3D-printed tool.

IoT-based smart farming 2023 – now
We develop IoT system for hidroponic, aquaponic, and other related field

Past research projects

Behavior coordination and reinforcement learning implementation in a mobile (wheeled and legged) robot

Developing various automated systems utilizing PLC, HMI, and SCADA

Finding the most effective PID controller tuning method for a DC motor speed control

TEACHING

Current courses

Industrial Automation *Design and implement an automated system controlled by a Programmable Logic Controller (PLC)*	2004 - now
Industrial Informatics *Design and implement Human Machine Interface (HMI) and Supervisory Control and Data Acquisition (SCADA) for a PLC-based system*	2004 - now
Industrial Internet of Things *Design and program a system that can monitor and control sensors and actuators via the internet for industrial applications*	2021 – now
Machine Learning/AI and Machine Learning (in Informatics Department) *Teach the concept and applications of machine learning*	2023 – now
Artificial Intelligence in Robotics and Automation *Teach the concept of AI and its implementation in robotics and automation*	2024 – 2025
Smart Industry (team teaching in the Industrial Engineering Department) *Teach the concepts and applications of smart industry technologies*	2022 – 2023

Past courses

Technopreneurship, Robotics Project, Calculus 1, Internet of Things, Basics of Control System, Control System, Fuzzy Control System, Control Engineering in Industry

STUDENT TEAM SUPERVISOR

National PLC Programming Competition - Petra Industrial Automation (3rd place)	2023
National IoT Competition – IoT Haxathon by Bosch Rexroth (2nd and 3rd place)	2023
Student Creativity Program - Karsa Cipta (PKM-KC) Dikti (funded)	2020
National PLC Programming Competition LKT Unesa (2nd place)	2019
National PLC Programming Competition ITB (2nd place)	2007

SCIENTIFIC MEMBERSHIP

Perkumpulan Automasi Indonesia – Indonesia Automation Society (PAI)	2020 - now
Indonesian Artificial Intelligence Society (IAIS)	2020 – now

SCIENTIFIC SERVICE

Member of Competence Development Division *Indonesian Electrical Engineering Forum - Regional 7 (FORTEI 7)*	2022 – now
Reviewers for various national and international journals and conferences *e.g. IJECE, Telkomnika, IJAI, Jurnal Teknik Industri, ICED, ISITIA, IROS*	2019 – now

National Reviewer of Dikti — 2025
Program Dana Padanan (PDP)

Chief editor — 2020 – 2022
International Journal of Industrial Research and Applied Engineering (JIRAE)

Competence Asessor BNSP — 2019 - 2022
LSP Enas - Industrial automation field

National Reviewer of Dikti — 2021
Program Kompetisi Kampus Merdeka (PKKM)

Student volunteer — 2017
International Conference on Machine Learning (ICML) in Sydney

Local Chair — 2011
World Congress IFSA -AFSS conference in Surabaya

INVITED SPEAKER

PKM Keagamaan - Unesa dan Unipma — 2025
"PELATIHAN LITERASI DIGITAL UNTUK MENANGKAL PENGARUH NEGATIF TEKNOLOGI PADA REMAJA DAN MAHASISWA DI KAB. MADIUN", 21 June 25

Innovation Day – Student Event (PT Schneider Indonesia) — 2024
"Fire side chat discussion – career preparation for fresh graduates"

Webinar Nasional Internet of Things (Hima Teknik Listrik – Fakultas Vokasi Unesa) - *"IoT in Smart Homes : Opportunities, Challenges, and Innovations For The Future"* — 2024

Kuliah Umum (Hima Prodi Teknik Informatika, Unkriswina) — 2024
"AI Applications in Manufacturing and Robotic"

International Symposium on Digital Transformation Innovations towards Industry 5.0 (IEEE Indonesia Section – Computer Society Chapter) — 2024
" Applications of AI and IoT for Small & Medium Manufacturing Enterprises"

Smart Manufacturing Forum 2023 (EED, PCU) — 2023
"Higher Education's Role in Preparing Future Engineers & Advancing Technology in the Era of Industry 4.0"

Invited lecturer in Politeknik Akamigas, Cepu — 2023
Short course: "Industrial Internet of Things"

CERTIFICATION AND TRAINING PARTICIPANT

Participant of Event — 2026
QS China Summit 2026, Shenzhen, 8 – 9 April 2026

Participant of Training of Trainers — 2025
Kurikulum Teknik Elektro Rekomendasi FORTEI, 8 – 9 May 2025

Participant of Training of Trainers — 2021
Fresh Graduate Academy "Big Data with Python –Cisco" by Kemkominfo

Higher Education Teaching Certificate — 2020
Online course from Harvard Bok Center (funded by UBCHEA)

Competence Assessor Certificate from BNSP — 2019 – 2022
Joining with Lembaga Sertifikasi Profesi (LSP) Elektronika Nasional (ENAS)

Participant of "Writing Clearly and Succinctly" Workshop — 2014
Held by Faculty of Engineering – UNSW Sydney

Participant of IEEE-RAS Response Robotics Summer School in Perth 2014
IEEE-RAS (Robot and Automation Society)

Participant of "Wonderware InTouch Programming" Training 2009
PT. Trimaxindo Adimitra

Participant of TSX Micro PLC Programming Training 2007
PT Schneider Indonesia

INDUSTRIAL PROJECTS

Alarm monitoring system using Siemens PLC and HMI 2024
Providing service for PT Tadakara Teknik Sumberkarya

Alarm monitoring system using Schneider PLC and HMI 2020 - 2021
Providing service for PT Tadakara Teknik Sumberkarya

OPC Data Logging in SCADA System 2007
Providing service for Perusahaan Gas Negara

INDUSTRIAL TRAINING

Founder, trainer, training material developer 2019 – now
akademiautomasi.com, CV Insan Cerdas Indonesia

Co-founder, trainer, training material developer 2006 - now
Industrial Automation Training Center, EED, PCU

- Programmable Logic Controller: Siemens (S7 1200, S7 200), Schneider (Modicon M221, TSX Micro, Zelio Logic), Omron (CP1E, CPM1)
- Human Machine Interface: Schneider (Magelis), Siemens (KTP 700 Basic)
- Supervisory Control and Data Acquisition (SCADA) using Wonderware/Aveva InTouch – Historian – Historian Client
- Industrial Internet of Things

INTELLECTUAL PROPERTY RIGHTS

SISTEM TERINTEGRASI UNTUK DETEKSI POSE DAN ESTIMASI LOKASI LANSIA DI DALAM RUANGAN 10/2024
H Wicaksono, I Sugiarto, P Santoso
Nomor IDS000009093 (paten sederhana, granted)

SISTEM PENGAWASAN LANSIA JARAK JAUH TERINTEGRASI 05/2024
H Wicaksono, P Santoso, I Sugiarto
Nomor IDS000007983 (paten sederhana, granted)

SISTEM DETEKSI CACAT PRODUK ENAM SISI OTOMATIS 04/2024
H Wicaksono, I Sugiarto, P Santoso, K Agustin, R Alimin
Nomor IDS000007959 (paten sederhana, granted)

PUBLICATIONS

Book chapters

1. Sammut, C., R. Farid, H. Wicaksono, and T. Wiley, "Logic-Based Robotics" in Human-Like Machine Intelligence Edited by Stephen Muggleton and Nicholas Chater, 2021

Books (bahasa Indonesia)

1. Wicaksono, H., Unofficial Beginner's Guide to S7-200 Siemens PLC. Yogyakarta, Indonesia: Graha Ilmu, 2013.
2. Wicaksono, H., SCADA Software dengan Wonderware In Touch; Dasar-Dasar Pemrograman. Yogyakarta, Indonesia: Graha Ilmu, 2012.
3. Wicaksono, H., Programmable Logic Controller; Teori, Pemrograman dan Aplikasinya dalam Otomasi Sistem. Yogyakarta, Indonesia: Graha Ilmu, 2009.

International Journals

1. Wicaksono, H., P. Santoso, I. Sugiarto, S. Gondowardoyo, A. Wijaya, J. Halim, N. H. Kamarudin, "The integrated smart system to assist elderly at home", IAES International Journal of Artificial Intelligence, vol. 13, no. 4, December 2024
2. Hutomo, I. S., H. Wicaksono, "A Smart Door Prototype with a Face Recognition Capability", IAES International Journal of Robotics and Automation, vol. 10, no. 4, December 2021
3. Wicaksono, H., C. Sammut, "A Cognitive Robot Equipped with Autonomous Tool Innovation Expertise", IJECE, vol. 10, no. 2, Apr. 2020
4. Putro, I. H., P. Santoso, H. Khoswanto, and H. Wicaksono. "Tool to monitor students' contribution in a wiki-based group work assignment." In Journal of Physics: Conference Series, vol. 1165, no. 1, p. 012018. IOP Publishing, 2019.
5. Wicaksono, H., C. Sammut, "Tool Use Learning for a Real Robot", International Journal of Electrical and Computer Engineering (IJECE), vol. 8, no. 2, Apr. 2018
6. Wicaksono, H., H. Khoswanto and S. Kuswadi, "Teleautonomous Control on Rescue Robot Prototype", Telkomnika – Indonesian Journal of Electrical Engineering, vol. 10, no. 4, pp. 621-628, Dec. 2012
7. Wicaksono, H., H. Khoswanto, and S. Kuswadi, "Behaviors Coordination and Learning on Autonomous Navigation of Physical Robot", Telkomnika – Indonesian Journal of Electrical Engineering, vol. 9, no. 3, pp. 473-482, Dec. 2011.

National Journals (bahasa Indonesia)

1. Salim, W. F., Sugiarto, I., Wicaksono, H., 2026, PENGEMBANGAN DAN IMPLEMENTASI VOICEBOT MULTIBAHASA DENGAN TEKNOLOGI RETRIEVAL-AUGMENTED GENERATION UNTUK ROBOT TOUR GUIDE. Jurnal Teknik Elektro 18 (2), pp. 85-95.
2. Sanmartya, L., Wicaksono, H., SISTEM MONITORING JARAK JAUH BERBASIS RASPBERRY PI PADA SIMULATOR LIFT YANG DIKENDALIKAN PLC. Jurnal Teknik Elektro 17 (2), pp. 69-75.
3. Glennado, M., Wicaksono, H. and Leonard, T., 2023. Implementasi Wonderware System Platform pada Otomasi Industri Minuman. Jurnal Teknik Elektro, 16(1), pp.24-29.
4. Winston, J., Sugiarto, I. and Wicaksono, H., 2022. Perancangan Sistem Kontrol Robot Desinfeksi Ruangan Dengan Lampu UV-C. Jurnal Teknik Elektro, 15(1), pp.13-19.
5. Wicaksono, H., Sugiarto, I. and Valentina, T.D., 2022. Skill Upgrading untuk Meningkatkan Kompetensi Siswa dan Guru Di SMK Kristen Petra. Society: Jurnal Pengabdian dan Pemberdayaan Masyarakat, 2(2), pp.165-175.
6. Santoso, Y. N., H. Wicaksono, P. Santoso, "Sistem SCADA Berbasis Internet Untuk Model Otomasi Bangunan", Dimensi Teknik Elektro, vol. 1, no. 1, pp. 18-23, 2013. [pdf]
7. Wicaksono, H., Prihastono, K. Anam, R. Effendi, I. A. Sulistijono, S. Kuswadi, A. Jazidie, and M. Sampei, "Perancangan Sistem Navigasi Otonom pada Behavior Based Hexapod Robot", Jurnal Teknik Elektro – Universitas Kristen Petra, vol. 8, no.2, Sep. 2008
8. Wicaksono, H., R. Lim, W. Sutanto, "Perancangan SCADA Software dengan Wonderware InTouch Recipe Manager dan SQL Access Manager pada Simulator Proses Pencampuran Bahan", Jurnal Teknik Elektro – Universitas Kristen Petra, vol. 8, no. 1, Mar. 2008.
9. Ferdinando, H., H. Wicaksono, E.K. Pangkong, "Miniatur Loading Arm Dock-3 PT Badak NGL Bontang dengan Sistem Emergency Shut Down (ESD)", Jurnal Teknik Elektro – Universitas Kristen Petra, vol. 8, no. 1, Mar. 2008. [pdf]

10. Wicaksono, H., C. Udayana, H. Ferdinando, "Communication Between TSX Micro 37-21 PLCs on Beverage Production Plant", Jurnal Teknik Elektro – Universitas Kristen Petra, vol. 6, no. 2, Sep. 2006.
11. Susiono, A., H. Wicaksono, H. Ferdinando, "Aplikasi SCADA System pada Miniatur Water Level Control", Jurnal Teknik Elektro – Universitas Kristen Petra, vol. 6, no. 1, Mar. 2006.
12. Wicaksono, H., "Analisa Performansi dan Robustness Beberapa Metode Tuning Kontroler PID pada Motor DC", Jurnal Teknik Elektro – Universitas Kristen Petra, vol. 4, no. 2, Sep. 2004.
13. Wicaksono, H., J. Pramudijanto, "Kontrol PID Untuk Pengaturan Kecepatan Motor DC Dengan Metode Tuning Direct Synthesis", Jurnal Teknik Elektro – Universitas Kristen Petra, vol. 4, no. 1, Mar. 2004.

International Conferences

1. Wicaksono, H., Sugiarto, I., Santoso, P., Ricardo, G. and Halim, J., 2022, December. Towards Autonomous Robot Application and Human Pose Detection for Elders Monitoring. In 2022 6th International Conference on Information Technology, Information Systems and Electrical Engineering (ICITISEE) (pp. 772-776). IEEE.
2. Halim, J. and Wicaksono, H., 2022, December. A Deep Learning Approach for Basic Human Activity Recognition with YOLOv4-tiny. In 2022 6th International Conference on Information Technology, Information Systems and Electrical Engineering (ICITISEE) (pp. 541-546). IEEE.
3. Wicaksono, H., P. Santoso, I. Sugiarto, F. Dwipanjung. Voice-Controlled Smart Home Prototype to Assist an Elder in Home Care in International Conference on Industrial, Enterprise, and System Engineering, December 2021
4. Wicaksono, H., P. Santoso, I. Sugiarto, D. Kristiyono, J. A. Wijaya. Application of Smart Home and Smartwatch to Assist Elders in Home Care Scenario in International Conference on Industrial, Enterprise, and System Engineering, December 2021
5. Wicaksono, H., H. Khoswanto, R. Alimin, J. A. Wijaya, W. Wibisono. Industrial Internet of Things for Condition-based Maintenance of an Induction Motor in The 4th International Conference on Engineering and Technology for Sustainable Development, December 2021
6. Wicaksono, H., P. Santoso, I. H. Putro, I.S. Hutomo, P. Lavina. Towards Integration of Heterogeneous Controllers in an IOT-based Automation System in 4th International Conference on Electrical Systems, Technology, and Information, October 2019
7. Wicaksono, H. Towards a Relational Approach for Tool Creation by Robots in International Joint Conference on Artificial Intelligence – Doctoral Consortium, August 2017, Melbourne, Australia
8. Wicaksono, H., C. Sammut, and R. Sheh. Towards Explainable Tool Creation by a Robot in International Joint Conference on Artificial Intelligence – eXplainable Artificial Intelligence Workshop, August 2017, Melbourne, Australia
9. Wicaksono, H. and C. Sammut. Relational Tool Use Learning by a Robot in a Real and Simulated World In Proceedings of Australasian Conference on Robotics and Automation, 2016, Brisbane, Australia
10. Wicaksono, H. and C. Sammut. A Learning Framework for Tool Creation by a Robot In Proceedings of Australasian Conference on Robotics and Automation, December 2015, Canberra, Australia [pdf]
11. Sammut, C., R. Sheh, A. Haber, and H. Wicaksono. The Robot Engineer In Proceedings of 25th International Conference on Inductive Logic Programming, August 2015, Kyoto, Japan [pdf]
12. Wicaksono, H., "Q Learning Behavior on Autonomous Navigation of Physical Robot", in Proc. of The 8th International Conference on Ubiquitous Robots and Ambient Intelligence (URAI), Incheon, South Korea, 2011, pp. 50-54.
13. Wicaksono, H., Prihastono, K. Anam, S. Kuswadi, I. A.Sulistijono, "Compact Fuzzy Q Learning for Autonomous Mobile Robot Navigation", Proc. of The IASTED International Conference on Robotics, Phuket, Thailand, 2010.
14. Wicaksono, H., Prihastono, K. Anam, R. Effendi, I. A. Sulistijono, S. Kuswadi, A. Jazidie, M. Sampei, "Application of Fuzzy Behavior Coordination and Q Learning in Robot Navigation", in Proc. of The 5th International Conference on Information & Communication Technology and Systems (ICTS), Surabaya, Indonesia, 2009.
15. Wicaksono, H., Prihastono, K. Anam, R. Effendi, I. A. Sulistijono, S. Kuswadi, A. Jazidie, M. Sampei, "Modified Fuzzy Behavior Coordination for Autonomous Mobile Robot Navigation

System", in Proc. of ICCAS-SICE (ICROS-SICE International Joint Conference 2009), Fukuoka, Japan, 2009, pp. 2944-2948.
16. Anam, K., H. Wicaksono, R. Effendi, S. I. Adji, S. Kuswadi, A. Jazidie, M. Sampei, "Hybridization of Fuzzy Q-Learning and Behavior-Based Control for Autonomous Mobile Robot Navigation in Cluttered Environment." in Proc. of ICCAS-SICE (ICROS-SICE International Joint Conference 2009), Fukuoka, Japan, 2009, pp. 1023-1028.
17. Prihastono, H. Wicaksono, K. Anam, R. Effendi, A. S. Indra, S. Kuswadi, A. Jazidie, M. Sampei, "Autonomous Five Legs Robot Navigation in Cluttered Environment using Fuzzy Q-Learning and Hybrid Coordination Node." in Proc. of ICCAS-SICE (ICROS-SICE International Joint Conference 2009), Fukuoka, Japan, 2009, pp. 2871-2874.

National Conferences (bahasa Indonesia)

1. Candra, R. P., Wicaksono, H., Sugiarto, I., "Sistem IoT untuk Urban Farming dengan Protokol LoRa dan Platform Antares.", SNEKTI V, 2025.
2. Hartono, J., Wicaksono, H., "Pengembangan Sistem Penyaringan Air Otomatis Berbasis Internet of Things.", SNEKTI V, 2025.
3. Alvina, P., H. Wicaksono, and P. Santoso. "Sistem Keamanan Bangunan Multi Lokasi Berbasis IoT Menggunakan Siemens LOGO! dan Raspberry Pi." SinarFe7 2, no. 1 (2019): 376-381.
4. Wicaksono, H., H. Khoswanto "Penerapan Mekanisme Suspensi dan Kontrol Teleoperasi pada Prototipe Rescue Robot", in Proc. of Industrial Electronic Seminar, Surabaya, 2012.
5. Wicaksono, H., "Behavior Coordination Methods on Autonomous Navigation of Physical Robot", in Proc. of Industrial Electronic Seminar, Surabaya, 2011.
6. Wicaksono, H., Prihastono, K. Anam, R. Effendi, I. A. Sulistijono, S. Kuswadi, A. Jazidie, M. Sampei, "Penerapan Fuzzy Q Learning pada Navigasi Otonom Behavior Based Hexapod Robot", in Proc. of Seminar Nasional Sistem & Teknologi Informasi (SNASTI), Surabaya, 2009.
7. Wicaksono, H., Prihastono, K. Anam, R. Effendi, I. A. Sulistijono, S. Kuswadi, A. Jazidie, M. Sampei, "Penerapan Behavior Based Architecture dan Q Learning pada Sistem Navigasi Otonom Hexapod Robot", in Proc. of Industrial Electronic Seminar, Surabaya, 2009.
8. Wicaksono, H., Thiang , E. Lao, "Pembuatan Human Machine Interface pada Jaringan PLC Omron CPM Untuk Sistem Keamanan Miniatur Kompleks Perumahan", in Proc. of Seminar Nasional Sistem & Teknologi Informasi (SNASTI), 2008.
9. Putro, I. H., H. Wicaksono, P. M. Sutarto, "Aplikasi Terdistribusi Berbasis Wonderware InTouch Pada Sistem Keamanan Perumahan", in Proc. of SNAST, 2008.
10. Wicaksono, H., R. Lim, M. Lesmana, "Pembuatan Web SCADA Software untuk Pengendalian Miniatur Rumah Cerdas Berbasis PLC Omron", in Proc. of SITIA (Seminar on Intelligent Technology and Its Applications) 8, Surabaya, 2007.
11. Thiang, H. Wicaksono, D. G. Sugiarto, "Kontrol Mesin Bor PCB Otomatis dengan Menggunakan Programmable Logic Controller", in Proc. of SITIA (Seminar on Intelligent Technology and Its Applications) 8, Surabaya, 2007.
12. Ferdinando, H., H. Wicaksono, R. Mintaraga, "Kendali Posisi Menggunakan Fuzzy Logic Berbasis Programmable Logic Controller", in Proc. of SNASTI (Seminar Nasional Sistem dan Teknologi Informasi), Surabaya, 2006.
13. Ferdinando, H., H. Wicaksono, R. Wibowo, "The Implementation of PID Controller in the Pick and Place Robot", in Proc. of Indonesia Japan Joint Scientific Symposium, Depok, 2006.
14. Wicaksono, H., R. Lim, R. Tjahjono, "Perancangan Sistem SCADA untuk Pengendalian Smart House dengan PLC Omron CPM1 Berbasis Visual Basic 6.0 dan MS Access", in Proc. of Seminar Nasional Tenaga Listrik dan Mekatronik 2006 LIPI, Bandung, 2006.
15. Thiang, Suprapto, H. Wicaksono, "Kontrol Robot Pick And Place Dengan Menggunakan Programmable logic Controller", in Proc. of SEMCI (Seminar Nasional on Electrical, Mechanical, Civil Engineering and Its Application), Mataram – NTB, 2005.
16. Wicaksono, H., H. Khoswanto, "Perancangan Sistem SCADA untuk Penalaan Kontroler PID pada Pengaturan Kecepatan Motor DC", in Proc. of Seminar Nasional Otomasi II – The World Of Automation 2004, Bandung, 2004.

17. Pramudijanto, J., H. Wicaksono, “Implementasi Kontroler PID pada Modul ASCII untuk Pengaturan Kecepatan Motor DC dengan PLC 200H”, in Proc. of SITIA (Seminar on Intelligent Technology and Its Application), Surabaya, 2003.

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