

# Imron Rosyadi

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**Imron Rosyadi** Jurusan Teknik Elektro (Electrical Engineering Department)

Fakultas Teknik (College of Engineering)

Universitas Jenderal Soedirman

Jl. Mayjen Sungkono Km. 5, Blater, Kalimanah, Purbalingga, Jawa Tengah, Indonesia 53371

Telp/Fax: 0281-6596700

Email: [imron.rosyadi@unsoed.ac.id](mailto:imron.rosyadi@unsoed.ac.id)

Email (for students): [pak.imron@gmail.com](mailto:pak.imron@gmail.com)

## Academic Profiles

- [ORCID-ID](#)
- [Google Scholar](#)
- [Microsoft Academic](#)
- [Academia](#)
- [Researchgate](#)
- [Mendeley](#)
- [Scopus](#)
- [Plubons](#)
- [Sinta](#)
- [Forlap Dikti / PDDikti](#)

## Personal Links

- [Page](#)
- [Blog](#)
- [Knowledge Base](#)

- [Blog \(not maintained\)](#)
- [Linkedin](#)
- [Matlab Central](#)
- [Github](#)
- [Twitter](#)

## Kuliah (Courses)

- Machine Learning
- [Dasar Teknik Elektro \(Fundamentals of Electrical Engineering\)](#)
- [Pengolahan Sinyal Digital \(Digital Signal Processing\)](#)
- [Sistem Kendali \(Control System\)](#)
- [Sistem Kendali Cerdas \(Intelligent Control System\)](#)
- [Internet of Things](#)
- Instrumentasi (Instrumentation)
- [Sistem Kendali Digital \(Digital Control System\)](#)
- [Matematika Teknik \(Engineering Mathematics\)](#)
- [Proyek Keteknikan \(Capstone Design\)](#)

## Kelompok Riset (Research Groups)

- [Machine Learning Research Group](#)
- [DevOps for Embedded Systems Research Group](#)
- [Image and Signal Processing Research Group](#)

## Penelitian (Research Projects)

- [Machine Learning for Image Classification](#)
- [Machine Learning for Agricultural Application](#)
- [Expert Systems for Healthcare Decision Making](#)

- Implementation of CFAR Algorithm for Radar Detection on FPGA System
- Analysis and System Design for Zigbee-based Sensor Networks
- Robot System Design and Analysis
- Process Control System Design
- DevOps for Embedded Systems
- Analysis and System Design for LoRa-based Networks
- Computational Intelligence for Prediction and Forecasting
- PIR-based Object Identification

## Pengabdian kepada Masyarakat (Community Services)

- Adaptive Solar Street Lamp for Villages
- Historical Image Digitization
- Open Map for Disaster Mitigation

## Publikasi (Publications)

- Purnama Eka Wijaya, **Imron Rosyadi**, Acep Taryana, 2019, *An attempt to adopt DevOps on embedded system development: empirical evidence*, Journal of Physics: Conference Series, Volume 1367, Number 1, pp: 1-9. [DOI]
- Eko Murdyantoro, Ridlo Setiawan, **Imron Rosyadi**, Azis WW Nugraha, Hesti Susilawati, Yogi Ramadhani, 2019, *Prototype weather station uses LoRa wireless connectivity infrastructure*, Journal of Physics: Conference Series, Volume 1367, Number 1, pp: 1-9. [DOI]
- Eko Murdyantoro, **Imron Rosyadi**, Hilmi Septian, 2019, *Studi Performansi Jarak Jangkauan Lora OLG01 sebagai Infrastruktur Konektivitas Nirkabel IoT*, Jurnal Ilmiah Dinamika Rekayasa Volume 15 No. 1, Februari 2019, pp: 47-56. [DOI]
- Winasis, Azis Wisnu Widhi Nugraha, **Imron Rosyadi**, Daru Tri Nugroho, Hari Prasetijo, 2018, *Solar-Wind Hybrid Power Plant Monitoring Based on Free Libre Open Source Software (FLOSS) Internet of Things*, Journal of Engineering and Applied Sciences Volume: 13 Issue: 9 pp: 2705-2712. [DOI]
- Winasis, Azis Wisnu Widhi Nugraha, **Imron Rosyadi** dan Fajar Surya Tri Nugroho, 2016, *Desain Sistem Monitoring Sistem Photovoltaic Berbasis Internet of Things (IoT)*, Jurnal

- Nasional Teknik Elektro dan Teknologi Informasi, Volume 5, Nomor 4, Tahun 2016. [DOI]
- Winasis, Azis Wisnu Widhi Nugraha dan **Imron Rosyadi**, 2016, *Desain Sistem Monitoring Nirkabel Berbasis Website untuk Pemantauan Baterai dan Beban Pembangkit Listrik Hibrida Surya-Angin*, Jurnal Teknik Elektro ITP, Volume 5, Nomor 2, Tahun 2016.
  - Winasis, **Imron Rosyadi**, Sarjiya, 2015, *Pengoptimalan Operasi Pembangkit Listrik Tenaga Hibrida Surya Angin untuk Mengurang Excess Electricity menggunakan Mix Integer Linear Programming*, Transmisi Volume 17 No 4 Oktober 2015 pp 186-193, Universitas Diponegoro. [DOI]
  - **Imron Rosyadi**, 2012, *Gray-scale Image Colorization using Various Affinity Functions*, Jurnal Ilmiah Dinamika Rekayasa Volume 8 No. 1, Februari 2012, pp: 7-11. Penerbit Universitas Jenderal Soedirman. [DOI]
  - **Imron Rosyadi**, 2011, *Peramalan Aliran Masukan Waduk Mrica Menggunakan Model Thomas-Fiering dan Jaringan Syaraf Tiruan ANFIS*, Jurnal Ilmiah Dinamika Rekayasa Volume 7 No. 2, Agustus 2011, pp: 48-53. Penerbit Universitas Jenderal Soedirman. [DOI]
  - **Imron Rosyadi**, Ridha A. Djemal, Saleh A. Alshebeili, 2010, *Design and implementation of real-time automatic censoring system on chip for radar detection*, International Journal of Electronics and Communication Engineering Vol: 4, No: 2, 2010, pp 275-281, World Academy of Science, Engineering and Technology. [DOI]
  - **Imron Rosyadi**, Ridlwan Kamaluddin, 2009, *Perancangan Sistem Pakar Kesehatan Anak berbasis Handphone menggunakan Java 2 Micro Edition*, Jurnal Ilmiah Kesehatan Masyarakat (Kesmas Indonesia) Volume 2 No. 1, pp 36-51.

## Seminar (Conferences)

- **Imron Rosyadi**, Vidi Fitriansyah Hidarlan, Farida Asriani, and Rifah Ediati, 2020. *A Deep Learning for Varieties Classification of Bulk Samples of Rice*, 2020 International Conference on Engineering, Technology and Innovative Researches.
- **Imron Rosyadi**, Fendy Prayogi, Farida Asriani, Rifah Ediati, 2020. *Rice Fields Classification among Google Earth Sattelite Images using Convolutional Neural Network*, 2020 The 2nd International Conference On Sustainable Agriculture For Rural Development (2nd ICSARD).
- Azis Wisnu Widhi Nugraha, **Imron Rosyadi**, Iwan Setiawan, 2018. *Pemanfaatan Sistem Lampu Cerdas pada Untuk Peningkatan Efisiensi Energi*, Prosiding Seminar Nasional Pengembangan Sumber Daya Perdesaan dan Kearifan Lokal Berkelanjutan VIII.
- Azis Wisnu Widhi Nugraha, Iwan Setiawan, **Imron Rosyadi**, 2017. *Pemanfaatan Raspberry Pi*

*dan Perangkat Lunak Bebas Terbuka (FOSS) pada Pendidikan Dasar untuk Mengatasi Kesenjangan Digital*, Prosiding Seminar Nasional Pengembangan Sumber Daya Perdesaan dan Kearifan Lokal Berkelanjutan VII.

- Winasis, Azis Wisnu Widhi Nugraha, **Imron Rosyadi**, Miftakhul Baehaki, 2016. *Node Nirkabel Berbasis Internet of Things untuk Pemantauan Beban Arus Bolak Balik Pembangkit Listrik Tenaga Surya*. Proceeding Seminar Nasional Teknologi Terapan 2016, ISBN 978-602-1159-18-7, Hal. 393 – 398. ([alternative link 1: full](#))
- Winasis, **Imron Rosyadi**, Sarjiya, Oyas Wahyunggoro, 2014, *Evaluasi Unjuk Kerja Sistem Photovoltaic 12 KWP Pada Pembangkit Listrik Hibrida Surya – Angin Pantai Baru Bantul*, Prosiding Seminar Nasional Teknik 2014, Universitas Muhammadiyah Purwokerto, pp 114-119.  
Winasis, **Imron Rosyadi**, 2014, *Analisis Kinerja Pembangkit Listrik Tenaga Hybrid Surya – Angin Pantai Baru Bantul*, Prosiding Seminar Nasional “Percepatan Desa Berdikari melalui Pemberdayaan Masyarakat” pp 802-810, 20-21 November 2014.
- Azis Wisnu Widhi Nugraha, Iwan Setiawan, **Imron Rosyadi**, 2013. *Penerapan Voice over Internet Protocol (VoIP) di Lingkungan Unsoed sebagai upaya peningkatan Efisiensi Sumber Daya*. Seminar Nasional Pengembangan Sumber Daya Pesedaan dan Kearifan Lokal Berkelanjutan III, ISBN 9789799204882, Hal. 208 – 214. ([alternative link](#))
- Dwi Kurniawan, **Imron Rosyadi** dan Azis Wisnu Widhi Nugraha, 2013. *Wireless Sensor Network (WSN) Application using Zigbee for Monitoring Displacement Object*. ICSRD (International Conference on Sustainable Rural Development) 2013 Proceeding “Sustainable Rural Development – Towards a Better World”, ISBN 978-979-99046-5-2, Hal. 115 – 120. ([alternative link](#))
- **Imron Rosyadi**, Azis Wisnu Widhi Nugraha, 2012, *Purwarupa Jaringan Sensor Nirkabel untuk Pemantauan Pergeseran Tanah pada Wilayah Rawan Longsor Berbasis Perangkat Keras Open Source*. Seminar Nasional Teknologi Berkelanjutan 2012, ISBN 9789799204615, Hal. 41 – 45. ([alternative link](#))
- **Imron Rosyadi**, 2012, *An FPGA Implementation of Automatic Censoring Algorithms for Radar Target Detection*. Proceeding of International Conference on Information Technology and Electrical Engineering (CITEE) 2012, pp 187-194, ISSN: 2088-6578.

## Hak Kekayaan Intelektual (Intellectual Properties)

- **Imron Rosyadi**, 2020, *Metode Penyandian (Encoding) dan Pengawasandian (Decoding)*

*Koordinat Lokasi dengan Sandi Suku Kata dan Angka. Paten (No Pendaftaran S00202005863)*

- **Imron Rosyadi**, 2020, *Sistem Penyandi (Encode), Pengawasandi (Decode) dan Komunikasi Koordinat Lokasi dengan Sandi Suku Kata dan Angka. Paten (No Pendaftaran S00202005862)*
- **Imron Rosyadi**, 2019, *Perangkat Lunak Pewarnaan Citra Skala Abu-abu dengan Variasi Fungsi Afinitas. Hak Cipta (No Pencatatan: 000164119).*
- Mulki Indana Zulfa, **Imron Rosyadi**, Ari Fadli, Acep Taryana, 2019, *Software Monitoring Tugas Akhir di Teknik Elektro Universitas Jenderal Soedirman. Hak Cipta (No Pencatatan: 000164521).*
- Winasis, **Imron Rosyadi**, Irfan Ahmad Faqih, 2019, *Software Pemantauan Debit Air Saluran Terbuka dengan Sensor Ultrasonik dan Rotary Encoder Berbasis Web Menggunakan Arduino. Hak Cipta (No Pencatatan: 000163870).*
- Acep Taryana, Azis Wisnu Widhi Nugraha, **Imron Rosyadi**, Priswanto, 2019, *Desain Platform DevOps sebagai Alat Bantu Pengembangan Skripsi Bidang Sistem Tertanam di Jurusan Teknik Elektro. Hak Cipta (No Pencatatan: 000163408).*

## Pemberitaan (News)

- [UNY Raih Juara Umum Kontes Robot Indonesia Regional 3, 28 April 2019](#)
- [UNY Raih Juara Umum Kontes Robot Indonesia Regional 3, 28 April 2019](#)
- [Produk Bagus, Kemasan Masih Mengecewakan, 3 November 2017](#)
- [Desa Kaligondang Juara Tertib Administrasi Desa 2013, 16 April 2013](#)
- [Dua Robot Unsoed Pincut Pengunjung Ekspo, 22 Mei 2012](#)
- [Pemilihan Mahasiswa Berprestasi UNSOED 2011, 13 Juni 2011](#)