



Ir. **Alam Rahmatulloh** S.T., M.T., MCE., IPM.

Lecturer | Researcher | Software Engineer

- Scopus ID [57210469316](#) h-index: 9
- Scholar ID [Dxn94LQAAAAJ](#) h-index: 20
- Sinta ID [6006638](#)
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- ORCID [0000-0002-1948-7379](#)



PROFILE

Place of Birth : Tasikmalaya
 Date of Birth : 21 Desember 1987
 Gender : Male
 Address : Bening Regency Blok A9
 Kahuripan Tawang Kota
 Tasikmalaya
 Nationality : Indonesia
 Functional Position : Associate Professor
 Rank/Goal/Space : Supervisor (IV/a)
 Field of Science : Intelligent Security System



EDUCATION

Institut Teknologi Bandung 2013 – 2015
 Bandung, School Of Electrical Engineering and Informatics

Universitas Siliwangi Tasikmalaya 2006 – 2010
 Tasikmalaya, Department of Informatics



KEY SKILLS

- Operating system: Mac OS, Windows OS (XP, 7), Linux-based OS
- Architecture: N-Tier Model, Client-Server Model (Two-Tier), Monolithic Application, Structured
- Programming Paradigm: Object-Oriented Programming, Structured/Modular Programming
- Web Programming Language: PHP, HTML, JavaScript and CSS
- Visual Programming Language: C#
- File Database: SQLite
- Server Database: MySQL, NoSQL, MariaDB
- Miscellaneous: SQL Server Reporting Service (SSRS), Windows Communication Foundation (WCF), Entity Framework (EF), Jasper Report, PDO, WAF



EXPERIENCE

PROGRAMMER 2010 – 2013
 CV Haifa Infosarana Multimedia

IT STAFF 2011 – 2013
 Center of Computer, Siliwangi University

LECTURER 2013 – Now
 Department of Informatics, Siliwangi University

PM 2016 – Now
 CV. Alphabet

CEO 2019 – Now
<http://yucoding.com>

DIREKTUR UTAMA 2024 – Now
 CV. Meta Pustaka Intelektual



LANGUAGES

English good

Indonesia good



AREAS OF INTEREST

- Internet of Things
- Microservices
- Software Security
- Web Programming
- Artificial Intelligence



THESIS ABSTRACT

The development of digital media is advancing rapidly, but the security of copyright and intellectual property becomes a very important issue. This is because the piracy of digital media such as software or source code is running rampant. The applications can be easily obtained, modified (reverse engineering), duplicated or distributed without permission of its developer. One of these problems encountered in the PHP source code, therefore it requires protection on source code that cannot be read directly. So in this paper focus how to protect PHP source code.

This research will carry out the security of PHP source code by using code obfuscation techniques using custom execution engine in the new PHP library. The encryption algorithm used as obfuscation manifolds stream cipher (RC4) and the encoding uses 85 ASCII characters. By applying this technique, it was created new PHP library which is capable of securing PHP source code altering data size average of 30,30% of its original PHP file and altering the execution time average of 28,28% of its original PHP.

RESEARCH GRANTS

No.	Year	Research Title	Funding	
			Source	Jml (Million Rp)
1	2015	Optimasi Server SIMAK Menggunakan Memcached dan Mirror Server Untuk Meningkatkan Kecepatan Akses Layanan Akademik Universitas Siliwangi	UNSIL	5
2	2015	Analisis Service Quality Untuk Mengukur Tingkat Kepuasan Pengguna Layanan TIK di Universitas Siliwangi	UNSIL	9
3	2017	Implementasi Load Balancing Web Server menggunakan Haproxy dan Sinkronisasi File pada Sistem Informasi Akademik Universitas Siliwangi	DIKTI	20
4	2018	Perancangan Alat Pemanggil Perawat Pada Rumah Sakit Berbasis Rfid Dengan Konsep Internet of Think (IoT) Menggunakan Arduino	DIKTI	19
5	2018	Implementasi Web Service Pada Sistem Host-To-Host Pembayaran Biaya Kuliah Mahasiswa	UNSIL	8
6	2019	Implementasi Web Scraping Untuk Rekap Data Publikasi Artikel Imiah Pada Google Scholar	UNSIL	8,5
5	2021	Algoritma Haar Cascade Classifier Untuk Deteksi Wajah Bermasker Berbasis Internet Of Things	UNSIL	14
6	2022	Penerapan Web Service Untuk Integrasi Layanan Perguruan Tinggi Satu Data	Tel-U X UNSIL	27,5
7	2022	Integrasi Layanan Web Sistem Informasi Sumberdaya Terintegrasi (Sister) Dikti Untuk Portofolio Peneliti Indonesia	UNSIL	15
8	2022	Pengumpulan Data Artikel Ilmiah Dari Science And Technology Index Menggunakan Pendekatan Web Scraping	Tel-U X UNSIL	25
9	2022	Sistem Cerdas Identifikasi Fragmen Simplisia Daun Kering dan Nama Tanaman Obat dengan Pendekatan Image Processing	DIKTI	157,7
10	2023	Aplikasi Identifikasi Citra Mikroskopis Fragmen Simplisia Tanaman Obat Berbasis Android Hibah Bantuan Biaya Luaran Prototipe 2023	DIKTI	61,55
11	2023	SISTEM MANAJEMEN TANDA TANGAN DIGITAL CERDAS TERINTEGRASI DENGAN QR-CODE Hibah Program Pengembangan Kapasitas (PPKAP)	UNSIL	12
12	2023	Sistem Pengelolaan Sampah Pintar Berkelanjutan Berbasis AI-IoT PENELITIAN KEMITRAAN DALAM NEGERI	Tel-U X UNSIL	80
13	2023	Perancangan Arsitektur Smart Wearable Device Untuk Monitoring Kesehatan Berbasis AI-IoT Hibah Program Pengembangan Kapasitas (PPKAP)	UNSIL	12
14	2023	Tanda Tangan Digital Cerdas Pada Pendidikan Tinggi Dengan Teknologi Blockchain Hibah Penelitian Kerjasama Dalam Negeri (PKDN) Batch-1	Tel-U X UNSIL	50
15	2024	Pendekatan Pengoptimal PSO-Adam Hibrid untuk Peningkatan Citra Mendalam dengan Generative Adversarial Network Hibah Penelitian Kerjasama Dalam Negeri (PKDN) Batch-1	Tel-U X UNSIL	50
16	2024	Optimalisasi Eco-Maps dengan Arsitektur Microservice untuk Menciptakan Kampus Ramah Lingkungan Penelitian Pengembangan Kapasitas (PPKap)	UNSIL	15

No.	Year	Research Title	Funding	
			Source	Jml (Million Rp)
17	2024	Payment Gateway System untuk Mekanisme Pembayaran Multichannel Berbasis Web Service Penelitian Pengembangan Kapasitas (PPKap)	UNSIL	15
18	2024	Model Chatbot Pintar Terintegrasi Pemrosesan Bahasa Alami Untuk Konversi Ucapan- Ke-Teks Dalam Membantu Disabilitas Tunarungu Menggunakan Pendekatan Pembelajaran Mesin Hibah Penelitian Kerjasama Dalam Negeri (PKDN) Batch-2	Tel-U X UNSIL	100
19	2024	Box Sampah Pintar dengan Deep Learning untuk Klasifikasi Jenis Sampah Otomatis Berbasis Internet of Things Hibah Prototipe	DIKTI	66,363
20	2025	Peningkatan Ketahanan Model CNN terhadap Serangan Adversarial dengan Explainable AI dalam Simulasi Pengenalan Wajah Biometrik Hibah Penelitian Kerjasama Dalam Negeri (PKDN) Batch-1	Tel-U X UNSIL	90
21	2025	Peningkatan Ketahanan Model VERITAS dengan Optimasi Varian PSO untuk Deteksi Deepfake Hibah Penelitian Kerjasama Dalam Negeri (PKDN) Batch-2	Tel-U X UNSIL	90
22	2025	Peningkatan Deteksi Objek dalam Kondisi Cahaya Rendah dengan YOLOv12 dan ViTRA Hibah Penelitian Kerjasama Dalam Negeri (PKDN) Batch-2	Tel-U X UNSIL	90
23	2025	Sistem Keamanan Cerdas Berbasis Web dengan Integrasi Model VERITAS untuk Deteksi Deepfake Penelitian Unggulan Unsil (PUU)	UNSIL	23
24	2025	Identifikasi Pohon Berbasis QR Code untuk Mendokumentasikan Keanekaragaman Hayati di Lingkungan Kampus Penelitian Pengembangan Kapasitas (PPKap)	UNSIL	16

COMMUNITY SERVICE

No.	Year	Research Title	Funding	
			Source	Jml (Million Rp)
1	2018	Pelatihan dan Peningkatan Disiplin Kehadiran Aparat Desa dengan Penerapan Sistem Presensi Berbasis Sidik Jari	UNSIL	8
2	2019	Pelatihan Dan Penerapan Sistem Presensi Berbasis Komputer Untuk Pengelolaan Data Kehadiran Aparat Desa	UNSIL	5
3	2019	Pelatihan Penggunaan Media Pembelajaran Elektronik Di Pusat Kegiatan Belajar Masyarakat (Pkbm) Miftahul Barokah	UNSIL	5
4	2020	Real-Time Monitoring Antrian Pendaftaran Pasien Puskesmas Berbasis Android Untuk Mencegah Penyebaran Virus Corona Covid-19	UNSIL	15
5	2022	Pelatihan Dan Penggunaan Platform Teknologi Kurikulum Merdeka Untuk Jenjang Sekolah Dasar Di Sd Islam Al-Jamal Dan Sdn Sukarindik Kota Tasikmalaya	UNSIL	7,5

No.	Year	Research Title	Funding	
			Source	Jml (Million Rp)
6	2022	Sosialisasi dan Penerapan Aplikasi Sekolah Digital Era Industri 4.0 berbasis Web Service untuk Meningkatkan Produktifitas Kegiatan Akademik dan Keuangan di SD Baiturrahman	UNSIL X Tel-U	27
7	2022	Edukasi Robotika Untuk Meningkatkan Kemampuan Motorik Halus Di Sd Baiturrahman	UNSIL X Tel-U	24,4
8	2023	SOSIALISASI PENERAPAN TEKNOLOGI MONITORING KEHADIRAN REALTIME UNTUK MENINGKATKAN DISIPLIN KINERJA KARYAWAN UMKM GEHEL SNACK PROGRAM PENGEMBANGAN PRODUK UNGGULAN DAERAH (PBM-PPPUD)	UNSIL	8
9	2023	Sosialisasi dan Penerapan Teknologi Payment Gateway Untuk Sistem Donasi Amal Kebaikan Hibah Program Dana Eksternal (EKSTERNAL)	Tel-U	70
10	2023	Sosialisasi Aplikasi Eco-Mapping dan Green School Program Untuk Mendukung Pelestarian Lingkungan di Sekolah Muhammadiyah Kabupaten Tasikmalaya Hibah Program Dana Eksternal (EKSTERNAL)	Tel-U	80
11	2023	PENERAPAN TEKNOLOGI SMART (SISTEM INFORMASI MANAJEMEN APLIKASI RUKUN TETANGGA) DI DESA ARJASARI BERBASIS SOCIETY 5.0 Program Pemberdayaan Masyarakat Unggulan Program Studi (PPMUPS)	UNSIL	10
12	2024	Workshop dan Pemanfaatan Sertifikat Digital dengan Teknologi Blockchain di Lingkungan Pimpinan Daerah Muhammadiyah Tasikmalaya Program Pemberdayaan Masyarakat Unggulan Program Studi (PPMUPS)	UNSIL	15,5
13	2024	Sosialisasi dan Pelatihan Penggunaan Teknologi Ear Tag pada Aplikasi Pendataan Hewan Ternak di Panji Boma Farm Program Pengembangan Produk Unggulan Daerah (PPPUD)	UNSIL	13
14	2024	Workshop Penerapan Teknologi Web Service pada Aplikasi IkutPeduli untuk Penggalangan Bantuan dan Promosi Kegiatan Sosial di Tasikmalaya Hibah Program Dana Eksternal (EKSTERNAL) Batch-1	Tel-U	66,5
15	2024	Workshop Penerapan Teknologi QRCode pada Aplikasi eLiveStock di BUMDes Panji Boma Ciamis Hibah Program Dana Eksternal (EKSTERNAL) Batch-2	Tel-U	78
16	2025	Penerapan Teknologi Jadwal Sholat Digital Otomatis untuk Meningkatkan Aksesibilitas dan Keakuratan Waktu Sholat di Komunitas Masyarakat Tamansari Tasikmalaya Program Penerapan Iptek Berbasis Masyarakat (PPIBM)	UNSIL	11
17	2025	Pengenalan Teknologi Robotika bagi Guru dan Siswa Sekolah Dasar Negeri (SDN) Citapen Kota Tasikmalaya Program Penerapan Iptek Berbasis Masyarakat (PPIBM)	UNSIL	12
18	2025	Transformasi Digital dalam Pendidikan: Workshop Implementasi AI Bagi Guru di Sekolah Hibah Program Dana Eksternal (EKSTERNAL) Batch-1	Tel-U	80

PUBLICATIONS

No	Title of Scientific Article	Journal / Publisher Name	Volume/ Nomor/Year
1	Optimalisasi Kinerja Sistem Informasi Akademik Universitas Siliwangi Menggunakan Memcached Dan Mirror Server. Halaman: 240-244, STMIK Dipanegara Makassar, 27 Feb - 1 Maret 2014	Proceedings KNSI - 2014	ISSN: 2355- 1941 Year: 2014
2	Pencegahan Ancaman Reverse Engineering Source Code PHP dengan Teknik Obfuscation Code pada Extension PHP Institut Teknologi Bandung, Indonesia 22 Oktober 2015, Hal. 176 - 181.	Proceedings KNIF - 2015	ISSN: 2354-645X Year: 2015
3	Optimasi Server SIMAK Menggunakan Memcached dan Mirror Server Untuk Meningkatkan Kecepatan Akses Layanan Akademik Universitas Siliwangi	S@CIES	5/2/2015
4	Analisis Service Quality Untuk Mengukur Tingkat Kepuasan Pengguna Layanan TIK di Universitas Siliwangi	SEMNASTEKNOMEDIA ONLINE	5/1/2017
5	Implementasi Load Balancing Web Server menggunakan Haproxy dan Sinkronisasi File pada Sistem Informasi Akademik Universitas Siliwangi	Jurnal Teknologi dan Sistem Informasi	3/2/2017
6	Sistem Informasi Manajemen Anggaran (Simangga) Perguruan Tinggi Berbasis Web (Studi Kasus: Universitas Siliwangi)	Jurnal Edukasi dan Penelitian Informatika (JEPIN)	3/2/2017
7	Implementasi Teknologi Augmented Reality Sebagai Media Pengenalan Aksara Sunda Berbasis Android	Jurnal Teknik Informatika dan Sistem Informasi	3/3/2017
8	Aplikasi Pengenalan Bahasa Arab dan Inggris untuk Anak-Anak Berbasis Android	Jurnal Online Informatika	2/2/2017
9	Keamanan RESTful Web Service Menggunakan JSON Web Token (JWT) HMAC SHA-512	Jurnal Nasional Teknik Elektro dan Teknologi Informasi (JNTETI)	Volume 7 Issue 2 2018
10	IMPLEMENTASI KOMUNIKASI FULL DUPLEX MENGGUNAKAN WEBSOCKET PADA SISTEM INFORMASI PENGELOLAAN ANGGARAN UNIVERSITAS ABC	Simetris: Jurnal Teknik Mesin, Elektro dan Ilmu Komputer	Volume 9 Issue 1 2018
11	Aplikasi Ensiklopedia Pakaian Adat Dunia Berbasis Android	Jurnal Informatika: Jurnal Pengembangan IT	Volume 3 Issue 2 2018
12	SISTEM PENGUKURAN KINERJA PENGURUS KOPERASI MAHASISWA MENGGUNAKAN METODE SIMPLE ADDITIVE WEIGHTING (SAW)	Jurnal Siliwangi Seri Sains dan Teknologi	Volume 4 Issue 1 2018
13	Sistem Pendukung Keputusan Layanan Verifikator Pengadaan dengan Metode Simple Multi Attribute Rating Technique (SMART)	JUITA: Jurnal Informatika	Volume 6 Issue 2 2018
14	PERBANDINGAN PERFORMA ALGORITMA KOLONI SEMUT DENGAN ALGORITMA GENETIKA-TABU SEARCH DALAM PENJADWALAN KULIAH	CESS (Journal of Computer Engineering, Science and System)	Volume 4 Issue 1 2019
15	Telegram Bot for Automation of Academic Information Services with The Forward Chaining Method	Jurnal Sinkron (Journal Publications & Informatics Engineering Research)	Volume 3, Number 2, April 2019
16	Web Services to Overcome Interoperability in Fingerprint-based Attendance System	2018 International Conference on Industrial Enterprise and System, Atlantis Highlights in Engineering	Volume 2, March 2019

No	Title of Scientific Article	Journal / Publisher Name	Volume/ Nomor/Year
17	JSON Web Token (JWT) untuk Authentication pada Interoperabilitas Arsitektur berbasis RESTful Web Service	JEPIN (Jurnal Edukasi dan Penelitian Informatika)	5 / 1, 74-79, 2019
18	Implementasi Web Service pada Sistem Host-To-Host Pembayaran Biaya Akademik	Setrum: Sistem Kendali-Tenaga-Elektronika-Telekomunikasi-Komputer	Volume 7 Issue 2 2019
19	Restful Web Service Untuk Integrasi Sistem Akademik Dan Perpustakaan Universitas Perjuangan	JURNAL ILMIAH INFORMATIKA	7 (01), 54-59, 2019
20	Web Scraping and Winnowing Algorithms for Plagiarism Detection of Final Project Titles	Lontar Komputer: Jurnal Ilmiah Teknologi Informasi	10 (2), 73-83, 2019
21	Websocket untuk Optimasi Kecepatan Data Transfer pada Real Time Chatting	Innovation in Research of Informatics (INNOVATICS)	1 (1), 2019
22	Telegram bot implementation in academic information services with the forward chaining method	SinkrOn	3 (2), 73-78, 2019
23	Comparison of Web Scraping Techniques: Regular Expression, HTML DOM and Xpath	2018 International Conference on Industrial Enterprise and System, Atlantis Highlights in Engineering	Volume 2, March 2019
24	Implementation of Global Positioning System as A Location Monitoring Media for Final Project Guidelines on Android-Based Applications	Jurnal Transformatika	Volume 16 Issue 2 2019
25	Performance Evaluation of Query Response Time in The Document Stored NoSQL Database	2019 16th International Conference on Quality in Research (QIR): International Symposium on Electrical and Computer Engineering, IEEE	2019
26	Real-time Screen Sharing Using Web Socket for Presenting Without Projector	2019 7th International Conference on Information and Communication Technology (ICoICT), IEEE	2019
27	Performance Analysis of Data Transmission on WebSocket for Real-time Communication	2019 16th International Conference on Quality in Research (QIR): International Symposium on Electrical and Computer Engineering, IEEE	2019
28	Implementasi Application Programming Interface (API) Google Calendar Sebagai Reminder Informasi Kegiatan Pondok Pesantren	JST (Jurnal Sains dan Teknologi)	8 (1), 73-82, 2019
29	IMPLEMENTASI FORMULA HAVERSINE DAN KOMUNIKASI DATA REAL-TIME MENGGUNAKAN WEBSOCKET DI SISTEM PENGAWASAN WARGA NEGARA ASING	KLIK-KUMPULAN JURNAL ILMU KOMPUTER	6 (2), 143-151, 2019
30	Implementasi Web Push Notification pada Sistem Informasi Manajemen Arsip Menggunakan PUSHJS	Jurnal Teknologi Informasi dan Ilmu Komputer	6 (3), 327-334, 2019
31	Application Programming Interface Google Picker Sebagai Penyimpanan Data Sistem Informasi Arsip Berbasis Cloud	Jurnal Nasional Teknologi dan Sistem Informasi	5 (1), 25-32, 2019
32	Sistem Presensi Berbasis Sidik Jari untuk Peningkatan Disiplin Kehadiran Aparat Desa	JATI EMAS (Jurnal Aplikasi Teknik dan Pengabdian Masyarakat)	3 (1), 14-18, 2019
33	SERVER-SIDE PROCESSING TECHNIQUES FOR OPTIMIZING THE SPEED OF PRESENTING BIG DATA	Jurnal Pilar Nusa Mandiri	15 (1), 47-52, 2019

No	Title of Scientific Article	Journal / Publisher Name	Volume/ Nomor/Year
34	Comparison between the Stemmer Porter Effect and Nazief-Adriani on the Performance of Winnowing Algorithms for Measuring Plagiarism	International Journal on Advanced Science, Engineering and Information Technology (IJASEIT Q2)	Vol 9, No 4 (2019)
35	Real-time Communication Measurement on Web Services in the Fingerprint Machine	2019 IEEE International Conference on Internet of Things and Intelligence System (IoTals)	2019
36	RFID for nurse activity monitoring in the hospital's nurse call system with Internet of Thing (IoT) concept	IOP Conference Series: Materials Science and Engineering	550 (1), 012025, 2019
37	Stateless Authentication with JSON Web Tokens using RSA-512 Algorithm	JURNAL INFOTEL	11 (2), 36-42, 2019
38	ANALISIS TINGKAT KEPUASAN MAHASISWA TERHADAP SIMAK UNIVERSITAS SILIWANGI MENGGUNAKAN STRUCTURAL EQUATION MODELING	Jurnal Siliwangi Seri Sains dan Teknologi	5 (2), 40-46, 2019
39	Identification of Bacterial Leaf Blight and Brown Spot Disease in Rice Plants with Image Processing Approach	Jurnal Ilmiah Teknik Elektro Komputer dan Informatika (JITEKI)	5 (2), 59-67, 2019
40	PELATIHAN DAN PENERAPAN SISTEM PRESENSI BERBASIS KOMPUTER UNTUK PENGELOLAAN DATA KEHADIRAN APARAT DESA	Jurnal Pengabdian Untuk Mu NegeRI	3 (2), 2019
41	Point Clipping Algorithm on Employee Presence Application for Geolocation of Employee Position	Kinetik : Game Technology, Information System, Computer Network, Computing, Electronics, and Control	Vol. 4, No. 4, November 2019
42	IMPLEMENTASI WEB SCRAPING PADA SISTEM INFORMASI LEMBAGA SERTIFIKASI PROFESI UNIVERSITAS SILIWANGI	SISTEMASI: Jurnal Sistem Informasi	8 (3), 397-404, 2019
43	JSON Implementation with Zlib Compression for Database Efficiency in Handling Dynamic Upload Multiple Images	Journal of Telematics and Informatics	7 (3), 2019
44	HAVERSINE FORMULA UNTUK MEMBATASI JARAK PADA APLIKASI PRESENSI ONLINE	Jurnal INSTEK (Informatika Sains dan Teknologi)	4 (2), 171-180, 2019
45	Performance comparison of signed algorithms on JSON Web Token	IOP Conference Series: Materials Science and Engineering	550 (1), 012023, 2019
46	Sistem Informasi Rekomendasi Klinik Kesehatan Menggunakan Algoritma Slope One dan Term Frequency Ranking	Jurnal Ilmiah Informatika	7 (2), 2019
47	Sistem Informasi Akreditasi Perguruan Tinggi (SIAP) untuk Pengisian Borang Standar 3 BAN-PT	Jurnal Sistem dan Teknologi Informasi (JUSTIN)	7 (2), 130-138, 2019
48	PERBANDINGAN ALGORITMA PADA VIRTUAL PRIVATE NETWORK IPSEC TERHADAP KECEPATAN DATA TRANSFER	SISTEMASI: Jurnal Sistem Informasi	9 (2), 259-273, 2020
49	Implementasi Web Service untuk Aplikasi Pemantau Coronavirus Disease 2019 (COVID-19)	Innovation in Research of Informatics (INNOVATICS)	2 (1), 2020
50	The Effect of Implementing Web Push Notification and Customer Relationship Management in E-Commerce of Silver Craft MSME	Sriwijaya International Conference on Information Technology and Its Applications (SICONIAN 2019), Advances in Intelligent Systems Research	2020
51	Web Scraping with HTML DOM Method for Data Collection of Scientific Articles from Google Scholar	Indonesian Journal of Information Systems	2 (2), 95-104, 2020

No	Title of Scientific Article	Journal / Publisher Name	Volume/ Nomor/Year
52	Applied Internet of Things (IoT): The Prototype Bus Passenger Monitoring System Using PIR Sensor	2020 8th International Conference on Information and Communication Technology (ICoICT), IEEE	2020
53	Optimizing data storage in handling dynamic input fields with JSON string compression	2020 8th International Conference on Information and Communication Technology (ICoICT), IEEE	2020
54	REALTIME MONITORING ANTRIAN PENDAFTARAN PASIEN PUSKESMAS BERBASIS ANDROID DALAM UPAYA PENANGGULANGAN PENYEBARAN COVID-19	Abdi Teknayasa, 50-54	2020
55	Performansi Software Defined Network Controller Pada Streaming Video Menggunakan Real-time Transport Protocol	Jurnal Teknik Informatika dan Sistem Informasi 7 (2)	2021
56	LAYANAN KEBERSIHAN MASJID BERBASIS ANDROID UNTUK Mendukung Pelaksanaan Protokol Kesehatan Pencegahan COVID-19	SELAPARANG Jurnal Pengabdian Masyarakat Berkemajuan	2021
57	Monitoring Elementary School Students Achievement using Android-based RESTful Web Service	Sistemasi: Jurnal Sistem Informasi	2021
58	Automatic Email Alert on the Internet of Things-based Smart Motion Detection System	ICONISTECH-1 2019: Selected Papers from the 1st International Conference on Islam, Science and Technology, ICONISTECH-1	2020
59	Sentiment Analysis of Ojek Online User Satisfaction Based on the Naïve Bayes and Net Brand Reputation Method	2021 9th International Conference on Information and Communication Technology (ICoICT)	2021
60	JSON Web Token Penetration Testing on Cookie Storage with CSRF Techniques	2021 International Conference Advancement in Data Science, E-learning and Information Systems (ICADEIS), IEEE	2021
61	Microservices-based IoT Monitoring Application with a Domain-driven Design Approach	2021 International Conference Advancement in Data Science, E-learning and Information Systems (ICADEIS), IEEE	2021
62	Face Mask Detection using Haar Cascade Classifier Algorithm based on Internet of Things with Telegram Bot Notification	2021 International Conference Advancement in Data Science, E-learning and Information Systems (ICADEIS), IEEE	2021
63	Analisis User Experience Aplikasi Peduli Lindungi untuk Menunjang Proses Bisnis Berkelanjutan.	SATIN-Sains dan Teknologi Informasi	2021
64	Comparison of JSON and XML Data Formats in Document Stored NoSQL Database Replication Processes.	International Journal on Advanced Science, Engineering and Information Technology	11 (3), 2021
65	Performansi Software Defined Network Controller Pada Streaming Video Menggunakan Real-time Transport Protocol.	Jurnal Teknik Informatika dan Sistem Informasi	7 (2), 381-389-381-389, 2021
66	GeoJSON Implementation for Demographic and Geographical Data Integration Using RESTful Web Services	2022 Seventh International Conference on Informatics and Computing (ICIC), IEEE	2022

No	Title of Scientific Article	Journal / Publisher Name	Volume/ Nomor/Year
67	Web Service Modeling for GraphQL Based College Data Service Access	2022 International Conference Advancement in Data Science, E-learning and Information Systems (ICADEIS), IEEE	2022
68	Event-Driven Architecture to Improve Performance and Scalability in Microservices-Based Systems	2022 International Conference Advancement in Data Science, E-learning and Information Systems (ICADEIS), IEEE	2022
69	Optimization of Hijaiyah Letter Handwriting Recognition Model Based on Deep Learning	2022 International Conference Advancement in Data Science, E-learning and Information Systems (ICADEIS), IEEE	2022
70	Selection of the Best Color Space for Image Steganography with the Least Significant Bit Method	2022 International Conference Advancement in Data Science, E-learning and Information Systems (ICADEIS), IEEE	2022
71	IoT Based Temperature Monitoring System For Smart Cage	2022 International Conference on Advanced Creative Networks and Intelligent Systems (ICACNIS), IEEE	2022
72	Monitoring Nilai Akademik Siswa Sekolah Dasar Berbasis Android dengan Restful Web Service	Sistemasi: Jurnal Sistem Informasi	11 (1), 84-96, 2022
73	Design Thinking Approach for User Interface Design and User Experience on Campus Academic Information Systems.	JOIV: International Journal on Informatics Visualization	6 (2), 327-334, 2022
74	CryptMAIL: Keamanan Ganda Email Menggunakan Algoritma Kriptografi.	Jurnal Teknik Informatika dan Sistem Informasi	8 (2), 438-453-438-453, 2022
75	Identification of Mirai Botnet in IoT Environment through Denial-of-Service Attacks for Early Warning System	JOIV: International Journal on Informatics Visualization	6 (3), 623-628, 2022
76	The Effect of Adding the Heuristic Evaluation Method to the Usability Evaluation Method of Design Thinking in the UNSIL Vclass Application	2023 8th International Conference on Informatics and Computing, ICIC 2023	2023
77	SOSIALISASI DAN PELATIHAN APLIKASI ECO-MAPPING DAN GREEN SCHOOL PROGRAM UNTUK Mendukung PELESTARIAN LINGKUNGAN DI SEKOLAH	Abdi Teknayasa, 2023	2023
78	Pelatihan Penggunaan Media Pembelajaran Elektronik di Pusat Kegiatan Belajar Masyarakat (PKBM) Miftahul Barokah	Jurnal Pengabdian Siliwangi 9 (2), 2023	2023
79	IoT-Enabled Water Distribution Monitoring: A Sensor-Based Analytical Model.	Ingénierie des Systèmes d'Information 28 (6), 2023	2023
80	DIKTI's Integrated Resource Information System Web Service Model for Researcher Portfolios	2023 International Conference on Advancement in Data Science, E-learning and ..., 2023	2023
81	MikrobatX: The Use of SIFT Feature Extraction in a Deep Learning Approach for Identification and Classification of Microscopic Fragments of Medicinal Leaves.	International Journal on Advanced Science, Engineering & Information ..., 2023	2023
82	AMAN: Token-based Authentication to Improved Single Sign-On Security Between Systems	2023 International Conference on Advancement in Data	2023

No	Title of Scientific Article	Journal / Publisher Name	Volume/ Nomor/Year
		Science, E-learning and ..., 2023	
83	IMPLEMENTASI JSON PARSING UNTUK PERTUKARAN DATA PADA APLIKASI VPN CLIENT BERBASIS MOBILE	NERO (Networking Engineering Research Operation) 8 (1), 65-76, 2023	2023
84	Steganography: Combination of Least Significant Bit (LSB) and Bit-Plane Complexity Segmentation (BPCS) Methods for Hiding Message on Image and Audio	International Journal of Computer Applications 975, 8887, 2023	2023
85	MikrobatX: The Use of SIFT Feature Extraction in a Deep Learning Approach for Identification and Classification of Microscopic Fragments of Medicinal Leaves	International Journal on Advanced Science, Engineering and Information Technology	2023
86	Automatic Screen Reader Using JITBIT for Sending Message on WhatsApp Messenger	Journal of Innovation Information Technology and Application (JINITA) 5 (1 ..., 2023	2023
87	LITERASI TEKNOLOGI INFORMASI Untuk Pengembangan dan Peningkatan Kompetensi	UNSIL LIBRARY PUBLISHER, 2023	2023
88	EDUKASI ROBOTIKA UNTUK MINGKATKAN KEMAMPUAN MOTORIK HALUS DI SD BAITURRAHMAN	TEKMULOGI: Jurnal Pengabdian Masyarakat 3 (1), 178-184, 2023	2023
89	Pengukuran Kinerja Sistem Informasi Penerimaan Mahasiswa Baru Menggunakan GTMetrix, WebAIM dan LoadView	MIND (Multimedia Artificial Intelligent Networking Database) Journal 8 (1 ..., 2023	2023
90	Performance Comparison of Response Time Native, Mobile and Progressive Web Application Technology	Innovation in Research of Informatics (INNOVATICS) 5 (1), 2023	2023
91	Sosialisasi dan Penerapan Aplikasi Sekolah Digital untuk Meningkatkan Produktifitas Kegiatan Akademik dan Keuangan	Surya Abdimas 7 (2), 239-245, 2023	2023
92	Implementation of JSON Web Token on Authentication with HMAC SHA-256 Algorithm	Sistemasi: Jurnal Sistem Informasi 12 (1), 194-205, 2023	2023
93	Chatbot for Diagnosis of Pregnancy Disorders using Artificial Intelligence Markup Language (AIML)	International Journal on Informatics Visualization	2023
94	PENERAPAN METODE WEBQUAL 4.0 DAN IMPORTANCE PERFORMANCE ANALYSIS (IPA) DALAM EVALUASI KUALITAS WEBSITE KOMUNITAS KUMPULAN WARGI SUKAPURA (KWS)	Jurnal Simantec 12 (2), 17-26, 2024	2024
95	Sosialisasi dan Pelatihan Penggunaan Aplikasi SMART Guna Mendukung Tertib Administrasi di Lingkungan Rukun Tetangga	UN PENMAS (Jurnal Pengabdian Masyarakat untuk Negeri) 4 (1), 51-58, 2024	2024
96	Custom Concept Text-to-Image Using Stable Diffusion Model in Generative Artificial Intelligence	International Journal of Informatics and Computing 1 (1), 1-11, 2024	2024
97	Exploring Models and Band Selection for Improved Contrail Detection with Deep Learning	Journal of Advances in Information Technology 15 (6), 2024	2024
98	WORKSHOP PENERAPAN TEKNOLOGI WEB SERVICE PADA APLIKASI IKUTPEDULI UNTUK PENGALANGAN BANTUAN DAN PROMOSI KEGIATAN SOSIAL DI TASIKMALAYA	El-Khidmat; Jurnal Pengabdian Masyarakat 1 (2), 49-57, 2024	2024
99	Beccak: Combination of Blockchain and Keccak Algorithm for Improved Digital Signature Performace	Preprints, 2024	2024
100	Approach Integration Design Sprints to Design Thinking in Learning Management System Sakattaku	Khazanah Informatika: Jurnal Ilmu Komputer dan	2024

No	Title of Scientific Article	Journal / Publisher Name	Volume/ Nomor/Year
		Informatika 10 (1), 58-68, 2024	
101	Implementasi HALB dan Klaster MongoDB dengan Penyimpanan Cache Redis dalam Sistem Terdistribusi	JUSTIN (Jurnal Sistem dan Teknologi Informasi) 12 (2), 265-270, 2024	2024
102	Analisis Perbandingan Metode Think-Aloud, Evaluasi Heuristik dan Cognitive Walkthrough untuk Evaluasi Usability pada Aplikasi Simpeda	JUSTIN (Jurnal Sistem dan Teknologi Informasi) 12 (2), 287-291, 2024	2024
103	Implementasi Mobilenet untuk Klasifikasi Gambar dan Deteksi Emosi Menggunakan KERAS	JUSTIN (Jurnal Sistem dan Teknologi Informasi) 12 (2), 259-264, 2024	2024
104	Comparison of Machine Learning Algorithms in Detecting Contaminants in Drinkable Water	Innovation in Research of Informatics (INNOVATICS) 6 (1), 2024	2024
105	Classification of Batik Tasikmalaya Using Neural Network With GLCM dan LBP Feature Extraction	Jurnal Mahasiswa Teknik Informatika 3 (1), 47-59, 2024	2024
106	Model Accuracy Test for Early Stage of Diabetes Risk Prediction with Data Science Approach	International Conference on Engineering, Applied Sciences and System ..., 2024	2024
107	Analisis dan Rekomendasi Character Pada Game Genshin Impact Berdasarkan Revenue Banner Menggunakan Algoritma Clustering	Jurnal Mahasiswa Teknik Informatika 3 (1), 40-46, 2024	2024
108	Perbandingan Skor Prediksi dalam Pembelajaran Mesin pada Keselamatan Penumpang Kapal: Comparison of Prediction Scores in Machine Learning on Ship Passenger Safety	Jurnal Mahasiswa Teknik Informatika 3 (1), 60-74, 2024	2024
109	PERBANDINGAN GATED RECURRENT UNIT (GRU) DAN ALGORITMA LONG SHORT-TERM MEMORY (LSTM) LINEAR REFRESSION DALAM PREDIKSI HARGA EMAS MENGGUNAKAN MODEL TIME SERIES	Jurnal Informatika dan Teknik Elektro Terapan 12 (1), 2024	2024
110	SOSIALISASI PENERAPAN TEKNOLOGI MONITORING KEHADIRAN REAL-TIME UNTUK MENINGKATKAN DISIPLIN KINERJA KARYAWAN UMKM GEHEL SNACK	Jurnal Bakti Masyarakat Indonesia 7 (1), 63-69	2024
111	ANALISIS TINGKAT KESIAPAN KEAMANAN INFORMASI MENGGUNAKAN INDEKS KEAMANAN INFORMASI (INDEKS KAMI) VERSI 4.2 PADA SISTEM INFORMASI AKADEMIK (SIMAK) UNIVERSITAS SILIWANGI	Jurnal SITECH: Sistem Informasi dan Teknologi 7 (1), 73-80	2024
112	SignChain: Enhanced Digital Signature System Security with HashIDs in Blockchain	2024 International Conference on Artificial Intelligence, Blockchain, Cloud Computing and Data Analytics	2024
113	Event-Driven Architecture (EDA) vs API-Driven Architecture (ADA): Which Performs Better in Microservices?	2024 International Conference on Artificial Intelligence, Blockchain, Cloud Computing and Data Analytics	2024
114	Performance Comparison of Multinomial and Bernoulli Naïve Bayes Algorithms with Laplace Smoothing Optimization in Fake News Classification	2024 International Conference on Artificial Intelligence, Blockchain, Cloud Computing and Data Analytics	2024
115	Analisis Malware Aquvaprn. exe Untuk Investigasi Sistem Operasi Dengan Metode Memory Forensics	Jurnal Teknik Informatika dan Sistem Informasi 10 (2), 161-172	2024

No	Title of Scientific Article	Journal / Publisher Name	Volume/ Nomor/Year
116	AResNet Model Using Deep Learning Approach for Enhancing the Internet of Things (IoT) Forensic Readiness Framework	International Journal of Intelligent Engineering & Systems 17 (5)	2024
117	Hybrid PSO-Adam Optimizer Approach for Optimizing Loss Function Reduction in the Dist-YOLOv3 Algorithm	International Journal of Intelligent Engineering & Systems 17 (5)	2024
118	Workshop dan Pemanfaatan Teknologi Digital Signature berbasis Blockchain di Lingkungan Pimpinan Daerah Muhammadiyah Tasikmalaya	Ilmu Komputer untuk Masyarakat 5 (2), 42-48	2024
119	DATA SECURITY SCHEME WITH A COMBINATION OF ADVANCED ENCRYPTION STANDARD (AES) AND RIVEST SHAMIR ALDEMAN (RSA) ALGORITHMS	Antivirus: Jurnal Ilmiah Teknik Informatika 18 (2), 177-190	2024
120	Implementasi Digital Signature Pada Dokumen Elektronik Berbasis QR-Code	STRING (Satuan Tulisan Riset dan Inovasi Teknologi) 9 (2), 133-138	2024
121	SimpliScopeX: Enhanced Deep Learning Model for Identification of Microscopic Image of Simplicia Fragments of Medicinal Plant Leaves	Journal of Advanced Research in Applied Sciences and Engineering Technology 51 (2)	2025
122	Go-X: Gain Ratio and Optuna Driven Optimization for Extreme Gradient Boosting (Xgboost) in Malware Detection	SSRN 5135150	2025
123	Vitra: Vision Transformer with Relative Position Embedding Attention for Low-Light Image Quality Improvement	SSRN 5240206	2025
124	ANALISIS DAMPAK PERMAINAN MOBA TERHADAP SIKAP MANUSIA MENGGUNAKAN K-MEANS CLUSTERING	JATI (Jurnal Mahasiswa Teknik Informatika)	2025
125	IMPLEMENTASI STEGANOGRAFI CITRA DIGITAL LSB MENGGUNAKAN ENKRIPSI AES-256 DAN EMBEDDING PSEUDORANDOM	Jurnal Informatika dan Teknik Elektro Terapan	2025
126	Predicting the Future: Using AdaBoost to Forecast Food Commodity Prices Across Indonesian Markets	2025 International Conference on Advancement in Data Science, E-learning and Information System (ICADEIS)	2025
127	Unveiling the Truth: Detecting Fake News Using SVM and TF-IDF	2025 International Conference on Advancement in Data Science, E-learning and Information System (ICADEIS)	2025
128	Hands-On Gaming: Real-Time Gesture Detection in Rock-Paper-Scissors Using Mediapipe and CNN	2025 International Conference on Advancement in Data Science, E-learning and Information System (ICADEIS)	2025
129	WasteInNet: Deep Learning Model for Real-time Identification of Various Types of Waste	Cleaner Waste Systems	2025
130	Analisis Perbandingan Model Random Forest dan XGBoost dalam Memprediksi Turnover Karyawan	Just IT: Jurnal Sistem Informasi, Teknologi Informasi dan Komputer	2025
131	PERBANDINGAN EFEKTIVITAS OWASP ZAP, ACUNETIX, NIKTO MENGGUNAKAN VULNERABILITY SCANNING UNTUK DETEKSI KERENTANAN APLIKASI WEB	JATI (Jurnal Mahasiswa Teknik Informatika)	2025

No	Title of Scientific Article	Journal / Publisher Name	Volume/ Nomor/Year
132	PERANCANGAN MEKANISME INTERAKSI PEMAIN DAN BOT DI GAME SUMOBALL DENGAN UNITY 2020 MENGGUNAKAN ADDFORCE	Journal of Animation and Games Studies	2025
133	Custom concept text-to-image using stable diffusion Model in generative artificial intelligence	JICO: International Journal of Informatics and Computing	2025
134	Bidirectional Encoder Representations from Transformers Fine-Tuning for Sentiment Classification of Cek Bansos Reviews	International Journal of Engineering and Computer Science Applications (IJECSA)	2025
135	Analisis Kinerja Kompresi Huffman dan BWT pada Steganografi dalam Reduksi Ukuran Gambar	Jurnal Informatika dan Multimedia	2025
136	Peningkatan Akurasi Deteksi Tepi Pada Citra Inversi Menggunakan Sobel-Canny-Prewitt	Jurnal Informatika dan Multimedia	2025
137	Analisis Cost-Performance Arsitektur Komputasi Edge, Cloud, dan Hybrid untuk Industri 4.0	Prosiding SEMNAS INOTEK (Seminar Nasional Inovasi Teknologi)	2025

CONFERENCES

No	Name of Scientific Conferences	Title of Scientific Article	Time and place
1	Konferensi Nasional Informatika (KNIF) 2015	Pencegahan Ancaman Reverse Engineering Source Code PHP dengan Teknik Obfuscation Code pada Extension PHP	Institut Teknologi Bandung, Bandung, 22 Oktober 2015
2	The 1 st Siliwangi International Conference on Innovation in Research (SICIR) 2018	Performance Comparison of Signed Algorithms on JSON Web Token	Bandung, 14 Agustus 2018
3	International Conference on Industrial, Enterprise, and System Engineering	Web Services to Overcome Interoperability in Fingerprint-based Attendance Systems	Yogyakarta, 21-22 November 2018
4	International Conference on Advancement in Data Science, E-Learning, and Information Systems	Comparison of the Effects Stemmer Porter and Nazief-Adriani on the Performance of Winnowing Algorithms for Measuring Plagiarism	Yogyakarta, 6-7 Februari 2019
5	The 16th International Conference on Quality in Research (QiR)	Performance Analysis of Data Transmission on Websocket for Real-time Communication	Padang, 22-24 Juli 2019
6	The 16th International Conference on Quality in Research (QiR)	Performance Evaluation of Query Response Time in The Document Stored NoSQL Database	Padang, 22-24 Juli 2019
7	The 7th International Conference on Information and Communication Technology (ICoICT)	Real-time Screen Sharing Using Web Socket for Presenting Without Projector	Malaysia, 24-26 Juli 2019
8	The International Conference on Data Engineering and Information System (ICoDEIS)	Comparison of JSON and XML Data Formats In Document Stored NoSql Database Replication Processes	Bali, 5-7 November 2019
9	The International Conference on Data Engineering and Information System (ICoDEIS)	Authentication System and Method for Improving Security Login Without Typing Password	Bali, 5-7 November 2019
10	International Conference on Internet of Things and Intelligence System (IoTaIS)	Real-time Communication Measurement on Web Services in the Fingerprint Machine	Bali, 5-7 November 2019
11	International Conference on Industrial Enterprise and System Engineering (ICoIESE)	Cross Reference Injection for Proof of Ownership Portable Document Format	Bali, 4-5 Maret 2020
12	International Conference on Industrial Enterprise and System Engineering (ICoIESE)	Real-time Web Application Firewall Monitoring uses the OWASP CRS Framework	Bali, 4-5 Maret 2020
13	International Conference on Industrial Enterprise and System Engineering (ICoIESE)	Real-time Eyeglasses Selection Simulator using Haar Cascade Classifier Algorithm in Augmented Reality Technology	Bali, 4-5 Maret 2020
14	The 8th International Conference on Information and Communication Technology (ICoICT)	Optimizing Data Storage in Handling Dynamic Input Fields with JSON String Compression	Yogyakarta, 24-26 Juni 2020

No	Name of Scientific Conferences	Title of Scientific Article	Time and place
15	The 8th International Conference on Information and Communication Technology (ICoICT)	Applied Internet of Things (IoT): The Prototype Bus Passenger Monitoring System Using PIR Sensor	Yogyakarta, 24-26 Juni 2020
16	The 9th International Conference on Information and Communication Technology (ICoICT)	Sentiment Analysis of Ojek Online User Satisfaction Based on the Naïve Bayes and Net Brand Reputation Method	Bandung, 3-5 Agustus 2021
17	International Conference on Advancement in Data Science, E-Learning, and Information Systems (ICADEIS)	Face Mask Detection using Haar Cascade Classifier Algorithm based on Internet of Things with Telegram Bot	Bali, 13 Oktober 2021
18	International Conference on Advancement in Data Science, E-Learning, and Information Systems (ICADEIS)	Microservices-based IoT Monitoring Application with a Domain-driven Design Approach	Bali, 13 Oktober 2021
19	International Conference on Advancement in Data Science, E-Learning, and Information Systems (ICADEIS)	JSON Web Token Penetration Testing on Cookie Storage with Storage with CSRF Techniques	Bali, 13 Oktober 2021
20	The 4th International Conference on Applied Information Technology and Information (ICAITI)	Design Thinking Approach for User Interface Design and User Experience on Campus Academic Information Systems	Lombok, 15-17 Maret 2022
21	The 4th International Conference on Applied Information Technology and Information (ICAITI)	Chatbot for Diagnosis of Pregnancy Disorders using Artificial Intelligence Markup Language (AIML)	Lombok, 15-17 Maret 2022
22	The 4th International Conference on Applied Information Technology and Information (ICAITI)	Identification of Mirai Botnet in IoT Environment Through Denial-of-Service Attacks	Lombok, 15-17 Maret 2022
23	2022 International Conference on Advanced Creative Networks and Intelligent Systems (ICACNIS), IEEE	IoT Based Temperature Monitoring System for Smart Cage	Bandung, 23-23 November 2022
24	2022 Seventh International Conference on Informatics and Computing (ICIC)	GeoJSON Implementation for Demographic and Geographic Data Integration Using RESTful Web Services	Denpasar, Bali, Indonesia, 08-09 December 2022
25	2022 International Conference Advancement in Data Science, E-learning and Information Systems (ICADEIS)	Web Service Modeling for GraphQL Based College Data Service Access	Bandung, Indonesia, 23-24 November 2022
26	2022 International Conference Advancement in Data Science, E-learning and Information Systems (ICADEIS)	Event-Driven Architecture to Improve Performance and Scalability in Microservices-Based Systems	Bandung, Indonesia, 23-24 November 2022
27	2022 International Conference Advancement in Data Science, E-learning and Information Systems (ICADEIS)	Selection of the Best Color Space for Image Steganography with the Least Significant Bit Method	Bandung, Indonesia, 23-24 November 2022

No	Name of Scientific Conferences	Title of Scientific Article	Time and place
28	2022 International Conference Advancement in Data Science, E-learning and Information Systems (ICADEIS)	Optimization of Hijaiyah Letter Handwriting Recognition Model Based on Deep Learning	Bandung, Indonesia, 23-24 November 2022
29	2023 International Conference Advancement in Data Science, E-learning and Information Systems (ICADEIS)	AMAN: Token-based Authentication to Improved Single Sign-On Security Between Systems	Lombok, Indonesia, 2 - 3 August 2023
30	2023 International Conference Advancement in Data Science, E-learning and Information Systems (ICADEIS)	DIKTI's Integrated Resource Information System Web Service Model for Researcher Portfolios	Lombok, Indonesia, 2 - 3 August 2023
31	The 2nd International Conference on Advanced Science and Engineering (ICASE) 2023	SimpliScopeX: Enhanced Deep Learning Model for Identification of Microscopic Image of Simplicia Fragments of Medicinal Plant Leaves	Penang, Malaysia, 25-26 November 2023
32	International Conference on Evolutionary Artificial Intelligence (ICEAI 2023)	Model Accuracy Test for Early Stage of Diabetes Risk Prediction with Data Science Approach	Selangor, Malaysia, 13-14, September 2023 ♣ Malaysia
33	2023 The Eighth International Conference on Informatics and Computing (ICIC)	The Effect of Adding the Heuristic Evaluation Method to the Usability Evaluation Method of Design Thinking in the UNSIL Vclass Application	Malang, Indonesia, 7-8 December 2023
34	The 18th International Conference On Telecommunication Systems, Services, And Applications	Comparison of Naïve Bayes and Random Forest on Sentiment Analysis of Brand Reputation Provider Live.On	Bali, 17-18 October 2024
35	2nd International Conference on AI, Blockchain, Cloud Computing & Data Analytics 2024 (ICoABCD 2024)	SignChain: Enhanced Digital Signature System Security with HashIDs in Blockchain	AUGUST 20-21, 2024 BALI, INDONESIA
36	2nd International Conference on AI, Blockchain, Cloud Computing & Data Analytics 2024 (ICoABCD 2024)	Event-Driven Architecture (EDA) vs API-Driven Architecture (ADA): Which Performs Better in Microservices?	AUGUST 20-21, 2024 BALI, INDONESIA
37	2nd International Conference on AI, Blockchain, Cloud Computing & Data Analytics 2024 (ICoABCD 2024)	Performance Comparison of Multinomial and Bernoulli Naïve Bayes Algorithms with Laplace Smoothing Optimization in Fake News Classification	AUGUST 20-21, 2024 BALI, INDONESIA
38	the Ninth International Conference on Informatics and Computing (ICIC 2024)	Hi-Care: Smart Virtual Assistant System Architecture with Domain-Driven Design towards Improving Quality of Life	Medan, 24-25 October 2024
39	the Ninth International Conference on Informatics and Computing (ICIC 2024)	Real-time Web Application Firewall Monitoring uses the OWASP CRS Framework	Medan, 24-25 October 2024

No	Name of Scientific Conferences	Title of Scientific Article	Time and place
40	the Ninth International Conference on Informatics and Computing (ICIC 2024)	Cross Reference Injection for Proof of Ownership Portable Document Format	Medan, 24-25 October 2024
41	the Ninth International Conference on Informatics and Computing (ICIC 2024)	Science and Technology Index (SINTA) Data Acquisition Model with Web Scraping Method	Medan, 24-25 October 2024
42	the Ninth International Conference on Informatics and Computing (ICIC 2024)	Support Vector Machine Parameters Optimization using Firefly Algorithm for Mental Health Prediction	Medan, 24-25 October 2024
43	International Seminar on Research of Information Technology and Intelligent Systems (The 2024 7th ISRITI)	Analyzing TikTok Account Reputation from Google Play Store Reviews using Sentiment Analysis and Machine Learning Approach	Yogyakarta, 11-12 December 2024
44	International Seminar on Research of Information Technology and Intelligent Systems (The 2024 7th ISRITI)	Real-time Eyeglasses Selection Simulator using Haar Cascade Classifier Algorithm in Augmented Reality Technology	Yogyakarta, 11-12 December 2024
45	International Seminar on Research of Information Technology and Intelligent Systems (The 2024 7th ISRITI)	Comparison of Hyperparameter Tuning Techniques on KNN Algorithm to find the Best K Value using Grid Search and Random Search Methods	Yogyakarta, 11-12 December 2024
46	International Seminar on Research of Information Technology and Intelligent Systems (The 2024 7th ISRITI)	Beccak: Combination of Blockchain and Keccak Algorithm for Improved Digital Signature Performance	Yogyakarta, 11-12 December 2024
47	2025 International Conference on Advancement in Data Science, E Learning and Information System (ICADEIS)	Unveiling the Truth: Detecting Fake News Using SVM and TF-IDF	3 - 4 February 2025 Hybrid Conference (Bandung, Indonesia)
48	2025 International Conference on Advancement in Data Science, E Learning and Information System (ICADEIS)	Hands-On Gaming: Real-Time Gesture Detection in Rock-Paper-Scissors Using Mediapipe and CNN	3 - 4 February 2025 Hybrid Conference (Bandung, Indonesia)
49	2025 International Conference on Advancement in Data Science, E Learning and Information System (ICADEIS)	Predicting the Future: Using AdaBoost to Forecast Food Commodity Prices Across Indonesian Markets	3 - 4 February 2025 Hybrid Conference (Bandung, Indonesia)
50	The 13th International Conference on Information and Communication Technology (ICoICT)	Classification of Facial Skin Diseases Using Xception Convolutional Neural Network Model	Bandung (Hybrid), 30-31 July 2025
51	The 13th International Conference on Information and Communication Technology (ICoICT)	Improving Flight Ticket Prediction Performance On Random Forest Machine Learning Model Using Bayesian Optimization	Bandung (Hybrid), 30-31 July 2025

No	Name of Scientific Conferences	Title of Scientific Article	Time and place
52	The 13th International Conference on Information and Communication Technology (ICoICT)	Classification of Sleep Disorders Based on Lifestyle using K-Nearest Neighbors Algorithm	Bandung (Hybrid), 30-31 July 2025
53	The 13th International Conference on Information and Communication Technology (ICoICT)	Ensemble Learning for Malware Classification: A Performance Evaluation Using Random Forest and Hist Gradient Boosting	Bandung (Hybrid), 30-31 July 2025
54	2025 10th International Conference on Computer and Communication Engineering (ICCCE)	Improving Harmful Brain Activity Classification Model with Electroencephalography Spectrogram using Transfer Learning	26-27 August 2025, Kulliyah of Engineering, International Islamic University Malaysia, 53100 Kuala Lumpur, Malaysia
55	2025 10th International Conference on Computer and Communication Engineering (ICCCE)	Data-Driven Prediction of MBA Admissions: Utilizing Extra Trees and Grid Search for Model Enhancement	26-27 August 2025, Kulliyah of Engineering, International Islamic University Malaysia, 53100 Kuala Lumpur, Malaysia
56	The 11th International Conference on Wireless and Telematics (ICWT)	Deep Learning for Malware Traffic Analysis: A Comprehensive Review on Model Optimization and Performance Enhancement	JULY 3-4, 2025, LAMPUNG, INDONESIA
57	9th International Conference on Recent Advances & Innovations in Engineering (ICRAIE)	Optimizer Algorithms for Air Temperature Prediction Using LSTM	23 & 24 August 2025 9th Taylor's University Lakeside Campus Kuala Lumpur, Malaysia
58	9th International Conference on Recent Advances & Innovations in Engineering (ICRAIE)	Iterative Knowledge Distillation: Artificial Neural Network Models Knowledge Cumulation for Increasing End Device Model Performance	23 & 24 August 2025 9th Taylor's University Lakeside Campus Kuala Lumpur, Malaysia

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No	Nomor	Nama Produk	Jenis	Waktu dan Tempat
1	EC00201984291	ScreenSocket LeightWeight Client-Server Communication With Websocket	Program Komputer (HKI)	11 November 2019, di Bandung
2	EC00201936659	Web Scrapping With HTML DOM (Automated Data Collection From Google Scholar)	Program Komputer (HKI)	1 April 2019, di Tasikmalaya
3	EC00202009315	Sistem Informasi Usulan Pembimbing Tugas Akhir (SUPER)	Program Komputer (HKI)	9 Maret 2020, di Tasikmalaya
4	EC00202038194	Sistem Pembaca Layar Dan Pengirim Pesan Otomatis Pada Whatsapp (Kintun.id)	Program Komputer (HKI)	7 Oktober 2020, di Tasikmalaya
5	EC00202147005	Face Mask Detection Using Haar Cascade Classifier Algorithm Based On Internet Of Things With Telegram Bot Notification	Program Komputer (HKI)	15 September 2021, di Tasikmalaya
6	EC00202114887	Diagnostic Intelligence Gangguan Kehamilan (DILAN CHATBOT)	Program Komputer (HKI)	9 Maret 2021, di Tasikmalaya
7	EC00202146150	KonekThings (IoT Monitoring Systems)	Program Komputer (HKI)	12 September 2021, di Tasikmalaya
8	EC00202254091	Mikrobat: Dataset Fragmen Mikroskopik Simplisia Tanaman Obat	Basisdata (HKI)	16 Agustus 2022, Tasikmalaya
9	EC00202262138	Aplikasi Layanan Kebersihan Masjid Berbasis Mobile	Program Komputer (HKI)	8 September 2023, Tasikmalaya
10	S00202209537	SISTEM ENCRYPTION EXECUTION ENGINE (EEE) UNTUK MENINGKATKAN KEAMANAN PERLINDUNGAN KODE SUMBER APLIKASI BERBASIS WEB	Paten Sederhana	29 April 2024, Tasikmalaya
11	EC002023117838	Sistem Informasi Manajemen Administrasi Rukun Tetangga (SMART)	Program Komputer (HKI)	6 Maret 2024, Tasikmalaya
12	EC002023131007	Aplikasi Identifikasi Citra Mikroskopis Fragmen Simplisia Tanaman Obat Berbasis Android	Program Komputer (HKI)	6 Maret 2024, Tasikmalaya
13	EC00202388840	SWART Dataset	Databse (HKI)	12 Oktober 2023, Tasikmalaya
14	EC00202347501	USA Downloader (Unsil Scientific Article Bot)	Program Komputer (HKI)	22 Juni 2023, Tasikmalaya
15	P00202307705	Tempat Sampah Cerdas Berbasis AIoT (Artificial Intelligence dan Internet of Things)	Paten	9 Juni 2024, Tasikmalaya
16	EC002023117826	Rancangan Arsitektur Smart Wearable Device Berbasis IoT untuk Pemantau Kesehatan	Databse (HKI)	6 Maret 2024, Tasikmalaya

No	Nomor	Nama Produk	Jenis	Waktu dan Tempat
17	EC00202421326	Smart Waste Bin with Artificial Intelligence and Internet of Things (SWART)	Program Komputer (HKI)	6 Maret 2024, Tasikmalaya

BOOK / BOOKCHAPTER

No	Judul Buku / Bookchapter	Tahun
1.	Pemrograman WEB Dasar	2025
2.	INTEGRASI TEKNOLOGI INFORMASI DALAM DESAIN PEMBELAJARAN MODERN	2025
3.	Smart Systems, Smart Decisions	2025
4.	AI Generatif dan Mutu Pendidikan	2024
5.	Model Accuracy Test for Early Stage of Diabetes Risk Prediction with Data Science Approach Evolutionary Artificial Intelligence - Springer	2024
6.	Literasi Teknologi Informasi untuk Pengembangan dan Peningkatan Kompetensi UNSIL Library Publisher	2023
7.	Keamanan Source Code PHP Menggunakan Teknik Obfuscation	2022

AWARDS

No	Type of Award	Awarding Institution	Year
1	Sebagai artikel terbaik pada Seminar Internasional Conference on Industrial, Enterprise, and System Engineering	Internasional Conference on Industrial, Enterprise, and System Engineering, Universitas Telkom	2018
2	Atas diperolehnya Hak Atas Kekayaan Intelektual (HAKI) Program Komputer	Universitas Siliwangi	2019
3	Atas diperolehnya Hak Atas Kekayaan Intelektual (HAKI) Program Komputer	Universitas Siliwangi	2020
4	Pemegang Kesatu Pemilik Sertifikat HAKI	Universitas Siliwangi	2021
5	Pemegang Kesatu Pemilik Sertifikat HAKI	Universitas Siliwangi	2022
6	Sebagai Juara 2 Dosen Berprestasi Bidang SAINS	Universitas Siliwangi	2023
7	Peringkat 2 Kategori SINTA Score	Universitas Siliwangi	2023
8	Peringkat 1 Kategori Sitasi Google Scholar Terbanyak	Universitas Siliwangi	2023
9	Top 50 Kompetisi Inovasi Jawa Barat 2024	Gubernur Jawa Barat	2024
10	Peringkat 1 Dosen Berprestasi Bidang Saintek	Universitas Siliwangi	2024
11	Peserta Terbaik Kelompok 2 Pelatihan Penulisan Deskripsi Permohonan Paten Tahun 2024	Direktorat Jenderal Pendidikan Tinggi, Riset, dan Teknologi Kementerian Pendidikan, Kebudayaan, Riset dan Teknologi	2024
12	Penulis Artikel Ilmiah Terbanyak	Universitas Siliwangi	2025

RESEARCH TOPICS

Research topics under my supervision are on the Internet of Things, Artificial Intelligence, Information Systems and Technology, Software Security and Web Application Programming.

SHORT PROFILE

Alam Rahmatulloh is an associate professor and researcher in the field of Intelligent Security Systems at the Department of Informatics, Faculty of Engineering, Siliwangi University, Tasikmalaya. He obtained his Masters in Informatics from the School of Electrical Engineering and Informatics, Bandung Institute of Technology (STEI-ITB) in 2015. His research interests include: Microservices, Web Programming, IoT, and Artificial Intelligence. Experienced in creating information systems such as smart campuses, academic systems, and others. He has won various awards and works, in addition in 2025 he has the highest SINTA Score at his home base, the Siliwangi University campus. Likewise with various research grants and community service, he is very active in carrying out tri dharma activities. His complete biography can be accessed through his personal website, namely <https://alam.iaico.org/>.