Prof. Dr. Syahril Efendi, S.Si., M.I.T.

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Mr. Syahril was born in Medan, November 10, 1967. He earned his bachelor and doctor degree at the Mathematics Department of FMIPA USU, Medan while his master degree from the Department of Computer/Information Technology FTSM Universitas Kebangsaan Malaysia (UKM), Bangi, Malaysia.

Mr. Syahril is an experienced lecturer. From 1996 until now, he has taught at the Mathematics Department of FMIPA USU and the Department of Computer Science at Fasilkom-TI USU. He was also entrusted with various positions, namely: Head of RaSiO Laboratory of FMIPA USU (1996-2013), Expert Staff to the Vice Dean III of FMIPA USU (2000-2005), Secretary of Computer Science Study Program USU (2001-2006), Head of Information Systems Laboratory of Computer Science Undergraduate Study Program Fasilkom-TI USU (2005-present), Head of Informatics Engineering Diploma Study Program FMIPA USU (2010-2015), Vice Dean III Fasilkom-TI USU (2012-2018), BNSP Competency Assessor (2013-2016), and Secretary of the Computer Science Masters/Doctor Study Program Fasilkom-TI USU (2018-2021).

Apart from being a lecturer, Mr. Syahril has also served as a TATP project manager in Medan, software developer (Academic Information System software of FMIPA USU, BP-PNFI Regional I Medan Information System, Information System for Educators and Non-formal Education Personnel, Cooperative Assessment System, Home and Away System for PSSI Football Game of North Sumatra), and Consultants (Academic Team) at Balai Pengembangan Pendidikan Nonformal dan Informal (BP-PNFI) Regional I Medan.

Until now, Mr. Syahril has conducted dozens of researches in the fields of artificial intelligence, cryptography, and others. Besides being active in teaching and research activities, Mr. Syahril is also active in organizations. Mr. Syahril is the Chairman of the APTIKOM Cooperation Division for Aceh North Sumatra Region (2013-2015), the General Chair of North Sumatra Branch of IPKIN (2015-2019), the Governor of IndoMS for Aceh Sumut Region (2016-2018), the Chairman of ABDSI for North Sumatra Region (2015-2019), Member Status and Transfer of Status of North Sumatra PSSI (2005-2009), Chairman of the Competition Committee of Asprov PSSI of North Sumatra (2013-2017), Head of the North Discipline Committee of Asprov PSSI of North Sumatra (2017-2021), Governor of IndoMS of North Sumatra Aceh Region (2018-2020), and Deputy President III of Central IndoMS (2020-2022).

Mr. Syahril has participated in the PSSI Member Development Program in 2014 and 2015. Mr. Syahril's motto in life is "Reach happiness while maintaining worship, health and finances".

Publications

2024
Prosiding seminar internasional

Implementation of the Clustering Using Representatives (Cure-sne) Algorithm on Toddler Stunting Data

AMALIA , DEWI SARTIKA BR GINTING , SYAHRIL EFENDI , POLTAK SIHOMBING

2024
Prosiding seminar internasional

Cure-Sne Model Detects Outliers in Data to Optimize the Process of Clustering Using Representatives

POLTAK SIHOMBING , DEWI SARTIKA BR GINTING , AMALIA , SYAHRIL EFENDI

2024
Jurnal internasional bereputasi

Improving Convective Cloud Classification with Deep Learning: The CC-Unet Model

HUMUNTAL RUMAPEA , SYAHRIL EFENDI , POLTAK SIHOMBING , MUHAMMAD ZARLIS

2024
Jurnal nasional

Pelatihan Pembuatan Pakan Fermentasi untuk Peningkatan Efisiensi Penggemukan Hewan Ternak

TAMRIN , SYAHRIL EFENDI

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A Decision-Making Model to Determine Dynamic Facility Locations for a Disaster Logistic Planning Problem Using Deep Learning

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Jurnal nasional terakreditasi

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Tulisan ilmiah

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Jurnal internasional bereputasi

Optimization for Planning and Scheduling of Seafood Product which Incorporates Traceability Considerations

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The Role of Recurrent Convolutional Neural Network in IoT for Building a Security Artificial Intelligence and Home Assistance System

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Jurnal nasional terakreditasi

CONVOLUTIONAL NEURAL NETWORK OPTIMIZATION FOR DEEP WEEDS

BENNY BENYAMIN NASUTION , SYAHRIL EFENDI , WENO SYECHU

2022
Monograf

Deteksi Dini Kanker Otak Menggunakan Ridge Polynomial Neural Network di RSUP Haji Adam Malik Medan Berbasis Revolusi Industri 4.0

RIAH UKUR GINTING , POLTAK SIHOMBING , SYAHRIL EFENDI , AMILA , BURHANUDDIN DAMANIK

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Prosiding seminar nasional

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Jurnal nasional terakreditasi

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RAHMAT WIDIA SEMBIRING , SYAHRIL EFENDI

2022

Jurnal nasional

Hakikat Filsafat Dalam Ilmu Informasi Security (Keamanan Informasi)

DARA SAWITRI , MUHAMMAD ZARLIS , SYAHRIL EFENDI

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Jurnal internasional bereputasi

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Jurnal internasional bereputasi

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Jurnal internasional bereputasi

HYBRID CRYPTOSYSTEM USING RC4+ and MULTIFACTOR RSA ALGORITHM for SECURING INSTANT MESSAGING

DIAN RACHMAWATI , SYAHRIL EFENDI

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Jurnal internasional bereputasi

Handling Problems of Credit Data for Imbalanced Classes using SMOTEXGBoost

RAHMAT WIDIA SEMBIRING , SYAHRIL EFENDI , HERU MARDIANSYAH

2020
Jurnal internasional bereputasi

COMPARATIVE ANALYSIS of DEPTH-FIRST SEARCH ALGORITHM and GREEDY ALGORITHM at NEAREST ATM SEARCH in PADANG SIDEMPUAN CITY

SYAHRIL EFENDI , DIAN RACHMAWATI

2019
Prosiding seminar internasional

Development Of Binary Similarity And Distance Measures (BSDM) Algorithm For The Bond Of High Development System Of Video

SYAHRIL EFENDI , CUT LIKA MESTIKA SANDY

Researches

2025
Ipteks Bagi Masyarakat

Pengembangan Teknologi Digital IoT dan AI Precision Farming untuk Meningkatkan Produktivitas dan Kualitas Peternakan Kambing

SYAHRIL EFENDI , POLTAK SIHOMBING

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Penelitian Dana Lokal Perguruan Tinggi

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2023
Penelitian Unggulan Perguruan Tinggi

Membangun Security Artificial Intelligence pada Sistem Home Assistance Berbasis Cloud

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2022
Penelitian Disertasi Doktor

Hakikat Filsafat Dalam Ilmu Informasi Security (Keamanan Informasi)

SYAHRIL EFENDI , DARA SAWITRI

2020
Penelitian Kerjasama Antar Perguruan Tinggi

DETEKSI DINI PENYAKIT KANKER OTAK MENGGUNAKAN RIDGE POLYNOMIAL NEURAL NETWORK DI RSUP HAJI ADAM MALIK MEDAN BERBASIS REVOLUSI INDUSTRI 4.0

AMILA , SYAHRIL EFENDI , BURHANUDDIN DAMANIK , RIAH UKUR GINTING , POLTAK SIHOMBING

Community Services

2026

Pengurus Majelis Rayon Kahmi MIPA USU

SYAHRIL EFENDI , RUGAYA

2025

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2024

Pengurus Majelis Rayon Kahmi MIPA USU

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Ipteks Bagi Masyarakat

PELATIHAN PENGGUNAAN APLIKASI PENJUALAN HEWAN TERNAK YG ADA DI KAMPUNG KUNYIT DESA TUMPATAN NIBUNG UNTUK PENINGKATAN PENDAPATAN EKONOMI

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Pengembangan Desa Liang Pematang Kecamatan Sinembah Tanjung Muda Hulu Kabupaten Deli Serdang untuk Mewujudkan Kesejahteraan Masyarakat Pada Masa Pandemi Covid-19

SYAHRIL EFENDI , RAHAYU LUBIS

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Deteksi Dini Kanker Otak Menggunakan Ridge Polynomial Neural Network di RSUP H. Adam Malik Medan Berbasis Revolusi Industri 4.0

BURHANUDDIN DAMANIK , RIAH UKUR GINTING , POLTAK SIHOMBING , SYAHRIL EFENDI , AMILA

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MESRA BETTY YEL , SYAHRIL EFENDI , MUHAMMAD ZARLIS , SAIB SUWILO

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Deteksi dini kanker otak Menggunakan Ridge polynomial neural network di RSUP H. Adam Malik Medan berbasis revolusi industri 4.0

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MESRA BETTY YEL , MUHAMMAD ZARLIS , SYAHRIL EFENDI , RELITA BUATON