

# Ainul Hizriadi, S.Kom., M.Sc

Lecturer of Undergraduate Program in Information Technology Study Program  
Faculty of Computer Science and Information Technology  
Universitas Sumatera Utara

✉ [ainul.hizriadi@usu.ac.id](mailto:ainul.hizriadi@usu.ac.id)

🏠 Information Technology Undergraduate Study Program, Faculty of Computer Science and Information Technology, Jalan Universitas No 9A

🌐 [fasilkom-ti.usu.ac.id/en/lecturer/ainul-hizriadi](http://fasilkom-ti.usu.ac.id/en/lecturer/ainul-hizriadi)

*Mr. Ainul Hizriadi S.Kom, M.Sc was born on October 27, 1985 right in Pangkalan Susu, Langkat Regency, North Sumatra. He received his master's degree at the University of Malaysia Pahang, Faculty of Computer System & Software Engineering, and previously received his bachelor's degree at Universitas Sumatera Utara, majoring in Computer Science. He also participated in training in 2017 and successfully achieved a Certified Ethical Hacking certificate.*

*Mr. Ainul is currently trusted as a permanent lecturer at Universitas Sumatera Utara, Faculty of Computer Science and Information Technology, precisely in the Undergraduate Program in Information Technology. Not only as a lecturer, he is also trusted to participate in the USU Information Systems Center team as the management and regulation of network systems including internet bandwidth, internet networks, intranet networks, and hotspot access in USU's environment, including the provision of network facilities including hardware and bandwidth, which are the responsibility of USU. This division is also responsible for the management and maintenance of servers used for sensitive, data and information in several strategic work units.*

*Mr. Ainul's research field is related to the Internet of Things.*

*Mr. Ainul is very well known as a friendly and good work partner, because he has one sentence that makes him live humbly, which is "Never feel better and smarter than anyone".*

---

## Publications

---

2025

Jurnal nasional terakreditasi

### **Efisiensi Energi Pada Kinerja Protocol Routing DSDV Berbasis Collision di Wireless Sensor Network**

AINUL HIZRIADI , ADE SARAH HUZAIFAH , FANINDIA PURNAMASARI , R. A. FATTAH ADRIANSYAH

---

2025

Book chapter nasional

### **CLOUD COMPUTING DAN SISTEM INFORMASI TERDISTRIBUSI**

AINUL HIZRIADI

---

2025

Book chapter nasional

### **DASAR-DASAR ILMU KOMPUTER: TEORI DAN APLIKASI ERA DIGITAL**

TAKYUDIN , HIKMAH ADWIN ADAM , WIWIN SRY ADINDA BANJARNAHOR , SUTOPO , AINUL HIZRIADI , HABIBI RAMDANI SAFITRI , WIBAWA , Ardi Azhar Nampira , ALAND POLMA NAEK SIHOMBING , YUYUN YUSNIDA LASE , SANTI PRAYUDANI

---

2021

Artikel ilmiah

### **Groundwater feasibility test system by using wireless sensor network**

AINUL HIZRIADI , ULFI ANDAYANI

---

2020

Prosiding seminar internasional

### **Preliminary Research Design on Sensor Data Gathering for Air Quality Text Generation**

AINUL HIZRIADI , SENIMAN , INDRA AULIA

---

2020

## **Network Device Monitoring System based on Geographic Information System and Simple Network Management Protocol**

AINUL HIZRIADI , IVAN JAYA

2019

Jurnal internasional bereputasi

## **Analysis Accuracy Of Forecasting Measurement Technique On Random KNN Using MAPE And MSE**

SANTI PRAYUDANI , AINUL HIZRIADI , YUYUN YUSNIDA LASE , YULIA FATMI

2018

Jurnal internasional bereputasi

## **An Interactive Augmented Reality Implementation of Hijaiyah Alphabet for Children Education**

AINUL HIZRIADI

2018

Jurnal internasional bereputasi

## **Virtual reality interactive media for universitas sumatera utara - A campus introduction and simulation**

AINUL HIZRIADI

## **Researches**

2025

## **PENERAPAN CONVOLUTIONAL NEURAL NETWORK UNTUK DETEKSI KECAMBAH KELAPA SAWIT ABNORMAL BERBASIS CITRA DIGITAL**

INDRA SAPUTRA KURNIAWAN , AINUL HIZRIADI

2023

## **IMPLEMENTASI ADVANCE MACHINE LEARNING PADA PREDIKSI PARTIKEL KUALITAS UDARA**

HERRIYANCE , AINUL HIZRIADI

2023

## **SISTEM KLASIFIKASI NEURAL NETWORK UNTUK MEMBEDAKAN DAGING BABI DAN SAPI**

HERRIYANCE , AINUL HIZRIADI

2022

## **Pengenalan Penyakit Maag Berdasarkan Citra Lidah Dengan Kecerdasan Buatan**

HERRIYANCE , AINUL HIZRIADI , KHAIRUNISA FITRI SINAGA , HILDA SAFIRA , FENNI KRISTIANI SARUMAHA

2021

Penelitian Dosen Pemula

## **PENERAPAN TEKNOLOGI DEEP LEARNING PADA BIDANG FARMASI DALAM MENGLASIFIKASI CITRA MIKROSKOPIS STOMATA TANAMAN HERBAL**

ULFI ANDAYANI , AINUL HIZRIADI , MUHAMMAD ANGGIA MUCHTAR

2021

Penelitian Dana Lokal Perguruan Tinggi

## **Pembangkitan Peringatan Banjir kepada Pengguna Kendaraan Bermotor berdasarkan Data Sensor Monitoring Banjir**

SENIMAN , AINUL HIZRIADI , INDRA AULIA , WIDANG MUTTAQIN , MUHIBUDDIN

2019

## **Interpretasi Tekstual Twitter Otomatis berdasarkan Data Sensor Pemantauan Kualitas Udara**

SENIMAN , AINUL HIZRIADI , INDRA AULIA , ALVIN DAELI , RASYID HAFIZ

# Intellectual Property Rights

---

2025

Hak cipta nasional

## **APLIKASI MOBILE KLASIFIKASI BIBIT KELAPA SAWIT PALSU MENGUNAKAN MACHINE LEARNING**

FANINDIA PURNAMASARI , AINUL HIZRIADI

---

2024

Hak cipta nasional

## **ADMINISTRASI JARINGAN**

AINUL HIZRIADI

---

2026

Hasil penelitian/pemikiran yang tidak dipublikasikan

## **Klasifikasi Citra Oral Lesions sebagai Pencegahan Dini Kanker Mulut Menggunakan Metode Capsule Neural Network**

AINUL HIZRIADI

---

2026

Hasil penelitian/pemikiran yang tidak dipublikasikan

## **OPTIMALISASI KINERJA DUAL-CORE PROSESOR PADA SERVER MELALUI PENGALOKASIAN DAN PENGISOLASIAN PROSES-PROSES APLIKASI DENGAN SOLARIS CONTAINERS OPTIMIZE THE PERFORMANCE OF DUAL-CORE SERVERS**

AINUL HIZRIADI

---