

Dr. Baihaqi Siregar, S.Si., M.T.

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

✉ baihaqi@usu.ac.id

🌐 fasilkom-ti.usu.ac.id/en/lecturer/baihaqi-siregar

Mr. Baihaqi Siregar was born in Medan on January 8, 1979. He completed his bachelor degree in Mathematics at ITB in 2004 and obtained a master degree from Computer Systems Engineering USU in 2011. He completed his last education at the S3 level, Computer Science study program, at Universitas Sumatera Utara in 2024.

He currently serves as Secretary of the Data Science & Artificial Intelligence Master Program at Universitas Sumatera Utara. His research areas include Data Science, Human-Computer Interaction, Brain-Computing Interface, Internet of Things, Robotics, and Computer Networking.

In 2016 Mr. Baihaqi Siregar won the Development of the Integrated Broadband Village Application of the Ministry of Communication and Information of the Republic of Indonesia in the fields of Productivity, Health, and Marine Fisheries Basic Security in the Startup Coaching Competition. He is also an innovator of Anatouchmy - Virtual Reality for Interactive Human Anatomical Learning in the PPBT program of the Ministry of Research, Technology and Higher Education of the Republic of Indonesia in 2017. He is also a co-innovator of the product Monitra - Realtime Monitoring Transformer in the PPBT program of the Ministry of Research, Technology, and Higher Education of the Republic of Indonesia (2018). As well as an innovator of the STEMi Robot - Robot for STEM Based Learning in the PPBT program of the Ministry of Research, Technology and Higher Education of the Republic of Indonesia (2019), and in 2020 was named the Best Innovator II of Universitas Sumatera Utara.

"Fall down seven times, get up eight" is an advice that he always remembers in pursuing his career until now.

Publications

2023

Prosiding seminar internasional

Environmental Mapping Automation by Quadruped Robot Using Lidar Technology

BAIHAQI SIREGAR , OPIM SALIM SITOMPUL

2023

Prosiding seminar internasional

Internet-Based Control System of Things on Cylinder Regulator for Safety from LPG Gas Leak Hazards

DEDY ARISANDI , BAIHAQI SIREGAR

2025

Jurnal internasional bereputasi

Integrating Virtual Reality, EEG Signal, and Haptic Feedback to Support Post-Stroke Rehabilitation System

BAIHAQI SIREGAR , FAHMI

2023

Buku referensi

Sensor dan Transduser: Prinsip Dasar dan Aplikasi Modern

BAIHAQI SIREGAR

2023

Prosiding seminar internasional

Feeding Automation for Fish Based on Fish Movement Detection Using Computer Vision Technology

AINUL HIZRIADI , BAIHAQI SIREGAR , NISKARTO ZENDRATO

2026

Prosiding seminar internasional

Identity recognition of people through face image using principal component analysis

BAIHAQI SIREGAR

2021

Jurnal internasional bereputasi

Identification of Indonesian clickbait news headlines with long short-term memory recurrent neural network algorithm

BAIHAQI SIREGAR , ERNA BUDHIARTI NABABAN , FAHMI

2025

Buku referensi

Overleaf Online LaTeX Editor Untuk Penulisan Tesis

ANDRIAN REINALDO CRISPIN , SYARIFAH ATIKA , BAIHAQI SIREGAR , MUHAMMAD ATQA ADZKIA ZALDI

2026

Prosiding seminar internasional

Simulation of data packets transmission on a mesh topology computer network using the openflow protocol and the Bellman-Ford algorithm

BAIHAQI SIREGAR

2020

Prosiding seminar internasional

Air Pollution Monitoring System Using Waspote Gases Sensor Board in Wireless Sensor Network

DEDY ARISANDI , BAIHAQI SIREGAR

2018

Prosiding seminar internasional

Analysis of factors that inhibiting implementation of Information Security Management System (ISMS) based on ISO 27001

BAIHAQI SIREGAR

2021

Jurnal internasional bereputasi

Securing sensor data transmission with ethernet elliptic curve cryptography secure socket layer on STM32F103 device

BAIHAQI SIREGAR , SENIMAN , FAHMI

2022

Prosiding seminar internasional

Design of Classification of Human Stress Levels Based on Brain Wave Observation Using EEG with K-NN Algorithm

BAIHAQI SIREGAR , FAHMI

2018

Prosiding seminar internasional

Concept Designs of Patient Information Security Using e-Health Sensor Shield Platform on Blockchain Infrastructure

BAIHAQI SIREGAR

2019

Buku lainnya

Klasifikasi Kecerdasan Majemuk pada Anak Berdasarkan Posting Aktivitas di Media Sosial Menggunakan SentiStrength dan Spearman's Rank Correlation Coefficient

BAIHAQI SIREGAR , IVAN JAYA , FILIA DINA ANGGARAENI

2022

Prosiding seminar internasional

Smartphone-controlled 3D Printed Robots for STEM Learning

OPIM SALIM SITOMPUL , ERNA BUDHIARTI NABABAN , BAIHAQI SIREGAR , FAHMI

Researches

2022

Prediksi Pertumbuhan dan Identifikasi Penyakit Hortikultura pada Sistem Robotika Pengendali Budidaya Tanaman

ADRIAN HILMAN , BAIHAQI SIREGAR

2021

Penelitian Fundamental

Model Pergerakan Robot Lengan Menggunakan Sinyal Electromyography

BAIHAQI SIREGAR , FAHMI

2021

Penelitian Unggulan Perguruan Tinggi

Model Estimasi Sikap Tubuh Manusia Berdasarkan Hasil Penginderaan Computer Vision

BAIHAQI SIREGAR , FAHMI

2016

Penelitian Hibah Bersaing

Sistem Pemantauan Lingkungan Jarak Jauh Pasca Letusan Gunung Sinabung Menggunakan Teknologi Wireless Sensor Network

BAIHAQI SIREGAR , SOEHARWINTO , EMERSON PASCAWIRA SINULINGGA

2021

Sistem Multi Sensor Pengendali Parameter Lingkungan Akuaponik Berbasis Edge Computing

BAIHAQI SIREGAR , FAHMI

2022

Sistem Multi Sensor Pengendali Parameter Lingkungan Akuaponik Berbasis Edge Computing

BAIHAQI SIREGAR , FAHMI

Community Services

2021

Ipteks Bagi Masyarakat

Pengabdian Desa Binaan_PENERAPAN TEKNOLOGI TEPAT GUNA DAN TENAGA SURYA PADA AKTIFITAS USAHA MASYARAKAT DI DESA SAYUR MATUA KEC. AEK NABARA BARUMUN KAB. PADANG LAWAS

ACHMAD SADELI , RAHMADHANI BANUREA , BAIHAQI SIREGAR , TULUS IKHSAN NASUTION , TETTY YULIATY

2014

Ipteks

PENINGKATAN PRODUKTIVITAS DENGAN CARA MENGAUDIT DAN MEMPERBAIKI LOSES-LOSES YANG TERJADI PADA MESIN PRODUKSI KELOMPOK PENGRAJIN KERIPIK SINGKONG DI DESATUNTUNGAN II PANCUR BATU DAN DUSUN 1 SUKASARI PENGAJAHAN, DELISERDANG

BAIHAQI SIREGAR , YULIANTA SIREGAR , ALFIAN HAMSI

2022

Ipteks Bagi Masyarakat

Penerapan Teknologi Tepat Guna dan Tenaga Surya Pada Aktifitas Usaha Masyarakat Di Desa Sayur Matua Kec. Aek Nabara Barumun Kab. Padang Lawas

ACHMAD SADELI , M. SABRI , MUHAMMADIN HAMID , ZIKRI NOER , IRWANA NAINGGOLAN , VINDY RILANI MANURUNG , MAYA FITRIA , RAHMADHANI BANUREA , ZULHAM APANDY HARAHAP , BAIHAQI SIREGAR , TULUS IKHSAN NASUTION , WINDI ASTUTI , EDDY SYAHRIAL , YUAN ALFINSYAH SIHOMBING , TETTY YULIATY , RISANTY , AWAN MAGHFIRAH

2018

Hibah HI-LINK

Pengembangan Industri Software House untuk Aplikasi Berbasis Mobile dan IoT

BAIHAQI SIREGAR , OPIM SALIM SITOMPUL , ERNA BUDHIARTI NABABAN

2025

Transformasi Pembelajaran Digital: Pelatihan Coding Interaktif Berbasis Scratch pada Mikrokontroler dan Penerapan Artificial Intelligence untuk Guru dan Siswa di SMP Negeri 14 Binjai

BAIHAQI SIREGAR

Intellectual Property Rights

2022

Paten nasional

Metode Penanganan Faktor Penghambat Pertumbuhan Tanaman Menggunakan Robot Pemindai Spektral

BAIHAQI SIREGAR

2022

Paten nasional

Alat Ukur Kekuatan Gigitan (Bite Force) Pada Pengguna Gigi Tiruan

BAIHAQI SIREGAR

2022

Paten nasional

Metode Pemeliharaan Prediktif Pada Mesin Motor Secara Non-invasif Menggunakan Perangkat Portabel Nirkabel

BAIHAQI SIREGAR

2022

Paten nasional

SISTIM MINIMALISIR KAPASITAS CAIRAN PELUMAS PADA OPERASI PEMBUBUTAN LOGAM

ARMANSYAH GINTING , BAIHAQI SIREGAR
