# Prof. Dr. Amalia, S.T., M.T.

### Dosen Fakultas Ilmu Komputer dan Teknologi Informasi

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*Ibu Amalia lahir di Banda Aceh pada tanggal 21 Desember 1978. Beliau memperoleh gelar sarjana di bidang Teknik Elektro dari Universitas Syiah Kuala. Beliau kemudian melanjutkan pendidikan pascasarjana di Departemen Teknik Elektro di Universitas Sumatera Utara dan beliau menyelesaikan pendidikan terakhirnya pada jenjang S3, program studi Ilmu Komputer, di Universitas Sumatera Utara.*

*Ibu Amalia menjabat sebagai Kepala Laboratorium Multimedia di Fakultas Ilmu Komputer dan Teknologi Informasi Universitas Sumatera Utara untuk periode 2017 - 2021. Beliau telah memiliki jabatan Lektor Kepala, dan saat ini menjabat sebagai Ketua Program Studi Ilmu Komputer di Fakultas Ilmu Komputer dan Teknologi Informasi Universitas Sumatera Utara.*

*Bidang penelitian Ibu Amalia adalah Natural Language Processing, beberapa karyanya di bidang penelitian ini telah dipublikasikan di jurnal-jurnal bereputasi baik nasional maupun internasional.*

*Jangan pernah berhenti belajar karena hidup tidak pernah berhenti mengajar adalah motto hidup yang selalu dipegang oleh Ibu Amalia.*

## Publications

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### Domain-Aware Spatial-Temporal Selective Gated LSTM for Real-Time Driver Drowsiness Detection

ADE CANDRA , AMALIA , POLTAK SIHOMBING

2026
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### Sentiment and Emotion Analysis in Textual Data: A Recent Systematic Literature Review Method, Model and Application

AMALIA , Rabiah Abdul Kadir , Ang Mei Choo , Wan Azzura Wan Ramli

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### Domain-Aware Spatial-Temporal Selective Gated LSTM for Real-Time Driver Drowsiness Detection

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GRACE LAMUDUR ARTA SIHOMBING , POLTAK SIHOMBING , ROMI FADILLAH RAHMAT , AMALIA

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### Advances in Visual Informatics

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## Domain-Aware Spatial-Temporal Selective Gated LSTM for Real-Time Driver Drowsiness Detection

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## Analysis of Visual Sequences for Driver Drowsiness Detection

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Artikel ilmiah

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## Bahasa Indonesia pre-trained word vector generation using word2vec for computer and information technology field

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### Penelitian Thesis Performance Analysis of KNN and C. 45 Algorithms With Kappa Measure Evaluation

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Kerjasama Luar Negeri dan Publikasi Internasional

### BAHASA HALOBAN DI PULAU BANYAK: DOKUMENTASI NARASI TRADISIONA

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Penelitian Hibah Bersaing

### Model Revitalisasi Nandong Simeulue melalui Digitalisasi dengan Web Archive untuk Pengembangan Industri Pariwisata Budaya: Pendekatan Antropolinguistik

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### KETERATURAN LINGUISTIK PADA METODE WORD EMBEDDING UNTUK BAHASA INDONESIA

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2020
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### Word vetor representation untuk natural language processing bahasa Indonesia dengan metode neural networks

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2019
Penelitian Dana Lokal Perguruan Tinggi

### Representasi Vektor untuk Teks Bahasa Indonesia dengan Pendekatan Word Embedding

AMALIA , OPIM SALIM SITOMPUL , ERNA BUDHIARTI NABABAN , SYARIFAH KEMALA PUTRI , SELINA AMELIA SAVITTRI , DWI FIMOZA

## Community Services

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### IEEE Indonesia Humanitarian Program - Disaster Response Aceh and North Sumatra, Indonesia

ADE CANDRA , MAULIANA , TITO AFWI SENDA , MUHAMMAD ATQA ADZKIA ZALDI , AMALIA

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### TELAN: Model Dokumentasi Bahasa Menggunakan ELAN untuk Meningkatkan Sumber Daya IPTEK Suku Siladang di Desa Sipagapaga Kabupaten Mandailing Natal

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Ipteks Bagi Masyarakat

### PEMBENTUKAN KOMITE SEKOLAH DI KELOMPOK BERMAIN (KB) TANAH MERAH KECAMATAN GALANG MELALUI PENDEKATAN ANTROPOLINGUISTIK

TASNIM LUBIS , FAHMI , AMALIA

2021
Penelitian Dana Lokal Perguruan Tinggi

### MEMANFAATKAN BAHASA DI RUANG PUBLIK DALAM MEMPROMOSIKAN QUEEN BURGER AND SNACK KOTA MEDAN: PENDEKATAN ANTROPOLINGUISTIK

TASNIM LUBIS , EDDY SETIA , AMALIA

2013
Ipteks Bagi Masyarakat

### IbM Kader Posyandu Di Kecamatan Medan Amplas Kota Medan

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### Penyebaran Informasi Dan Motivasi Pemberian ASI Eksklusif Kepada Para Ibu Menyu

## Intellectual Property Rights

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### APLIKASI ASISTEN PENDIDIKAN LITERASI SECARA INKLUSIF BAGI

## TUNANETRA BERBASIS NATURAL LANGUAGE PROCESSING (NLP) BAHASA INDONESIA

AMALIA

2026

Hasil penelitian/pemikiran yang tidak dipublikasikan

## Subword Embedding dengan Pendekatan Byte Pair Encoding dan Morfologi Bahasa Indonesia

AMALIA