

## ICAICTA 2023 Parallel Sessions

Saturday, 7th October , 11.00 am - 12.15 pm			
Parallel 1 Rinjani room		Parallel 1 Sasak room	
Topic : Computer Vision		Topic : Optimization	
Title	Authors	Title	Authors
A Cocoa Ripeness Detection and Classification Model Based on Improved YOLOv5s	Aula Ayubi, Muhammad Faiz, George B. Situmorang, Kurniawan Nur Ramadhani and Nugraha P. Utama	Obtaining Maximum Probability Partitioning by Optimizing Calculation Strategy	Daichi Kozuki, Ayaka Takamoto and Kyoji Umemura
Spontaneous Micro-Expressions Recognition using 3DCNN on Long Videos for Emotion Analysis	Budhi Irawan, Rinaldi Munir, Nugraha Priya Utama and Ayu Purwarianti	Annealing-Based Optimization for Selecting Training Space in Ensemble Learning	Lenny Putri Yulianti, Agung Trisetyarso, Judhi Santoso and Kridanto Surendro
Improving Orange and Lemon Object Detection Using YOLOv5 and Image Augmentation	Fiddin Yusfida A'La, Abqariy Afghanina Al-Fath and Syauqi Mutha'llah Albanna	Enhancing Communication Efficiency in Adam Optimizer for Distributed Deep Learning	Fransiskus Febryan Suryawan and Achmad Imam Kistijantoro
Identification of Leaf Diseases of Medicinal Plants Using K-Nearest Neighbor Algorithm Based on Color, Texture, and Shape Features	Putu Prianka Vedanty, Made Windu Antara Kesiman, I Gusti Ayu Agung Diatri Indradewi and I Made Gede Sunarya	Training Neural Machine Translation Models by using an Entire Comparable Corpus	Yuki Yamamoto, Tomoyosi Akiba and Hajime Tsukada

Saturday, 7th October , 1.45 pm - 3.00 pm			
Parallel 2 Rinjani room		Parallel 2 Sasak room	
Topic : Sentiment Analysis and Hoax News Detection		Topic : Data and Image Generation	
Title	Authors	Title	Authors
Sentiment Analysis of Cooking Oil Price Policy in Indonesia using Word2vec Feature Extraction and Bidirectional Long Short Term Memory	Dedy Sugiarto, Ema Utami, Suwanto Raharjo and Ainul Yaqin	Generating scene layout from textual descriptions using Transformer	Haruka Takahashi and Shigeru Kuriyama
Using Twitter Data for Telecommunication Service Improvement: A Case Study of Telkomsel Indonesia	Annisa Dea Rachmantya, Uwe Serdült and Victor Kryssanov	Composition-preserving text-based image manipulation with diffusion model	Kazuki Adachi and Shigeru Kuriyama
Predicting Stock Market Trends with News Sentiment Analysis and Historical Stock Market Data Analysis Using Data Mining Techniques	Abraham Hotasi and Dicky Satya	Pseudo Fake Data Generation using Round-Trip Translation for Fact Verification on Political Debates	Haruki Ishikawa, Ryuto Kobayashi, Yuki Gato and Tomoyosi Akiba
Implementation of Query Expansion to Enhance Word2Vec Performance in Hoax News Detection Systems	Aldi Pranadia and Rila Mandala	Building an Elementary Indonesian Textbook Readability Baseline Model	Sanding Adhieguna Rachmat Yasin and Ade Romadhony

**ICAICTA 2023 Parallel Sessions**

Saturday, 7th October , 3.15 pm - 4.30 pm			
Parallel 3 Rinjani room		Parallel 3 Sasak room	
Topic : Speech Recognition and Language Identification		Topic : Classification and Clustering	
Title	Authors	Title	Authors
Domain Adaptation Using Density Ratio Approach and CTC Decoder for Streaming Speech Recognition	Tatsunari Takagi, Yukoh Wakabayashi, Atsunori Ogawa and Norihide Kitaoka	Convolutional Neural Network Algorithms for Car Accident Classification	Angeline Mary Marchella, Naufal Hardiansyah, Patricia Valerie Santoso, Carwyn Tjuatja, Ivan Sebastian Edbert and Derwin Suhartono
Robustifying Spoken Language Identification on Noisy Condition using Curriculum Learning	Tran The Anh and Chng Eng Siong	Lyricist-Singer Entropy Affects Lyric-Lyricist Classification Performance	Mitsuki Morita, Masato Kikuchi and Tadachika Ozono
Speech recognition interface for updating electronic medical records with automatic itemization	Ryo Maejima and Norihide Kitaoka	Classification of Balinese Herbal Plant Leaf Using Convolutional Neural Network	Ni Putu Dita Ariani Sukma Dewi, Made Windu Antara Kesiman, I Made Gede Sunarya and I Gusti Ayu Agung Diatri Indradewi
Automatic Speech Recognition Using Linguistic and Verbal/Non-verbal Information	Shione Nagito, Yukoh Wakabayashi and Norihide Kitaoka	Extraction of Dominant Colors from Tais, Traditional Weaving of Timor-Leste, by Clustering Methods and Comparison of the Methods	Pinto Carlito and Hidekazu Fukai

## ICAICTA 2023 Parallel Sessions

Sunday, 8th October , 9.00 am - 10.15 am			
Parallel 4 Rinjani room		Parallel 4 Sasak room	
Topic : Speech processing, Stemming, and Tagger		Topic : Text Processing	
Title	Authors	Title	Authors
Classification of Vocal Type in Choir Using Convolutional Recurrent Neural Network (CRNN)	Stefanus and Dessi Puji Lestari	Domain adaptation with a non-parallel target domain corpus	Takahiro Kinouchi, Atsunori Ogawa, Yukoh Wakabayashi and Norihide Kitaoka
Transformer-based Punctuation Restoration Models for Indonesian with English Codeswitching Speech Transcripts	Changsong Liu, Thi Nga Ho, Eng Siong Chng and Jia Qi Yip	Rule-Based Text Simplification for Extractive Automatic Summarization of News Articles in Indonesian	M. Abdi Haryadi. H, Masayu Leylia Khodra and Anggrahita Bayu Sasmita
Indonesian Part-of-Speech Tagger : A Comparative Study	Muhammad Alfian, Umi Laili Yuhana and Daniel Oranova Siahaan	A Comparison Between SymSpell and a Combination of Damerau-Levenshtein Distance With the Trie Data Structure	Hanif Arkan Audah, Arlisa Yulawati and Ika Alfina
Towards building stemmer for Tenyidie Language	Teisovi Angami and Themrichon Tuithung	Simple Hack for Transformers against Heavy Long-Text Classification on a Time- and Memory-Limited GPU Service	Mirza Alim Mutasodirin, Radityo Eko Prasajo, Achmad F. Abka and Hanif Rasyidi

Sunday, 8th October , 10.30 am - 12.00 pm			
Parallel 5 Rinjani room		Parallel 5 Sasak room	
Topic : BERT and Encoder		Topic : Game and Mobile Application	
Title	Authors	Title	Authors
Implementing Quantization to Indonesian BERT Language Model	Muhammad Ayyub Abdurrahman, Samuel Cahyawijaya, Genta Indra Winata and Ayu Purwarianti	Gamifying Open Courseware on Mobile Application using Player-Centered Design Approach	Ricky Yulawan, Yuda Sukmana and Yusep Rosmansyah
IndoSBERT: Enhancing Indonesian Sentence Embeddings with Siamese Networks Fine-tuning	Kadek Denaya Rahadika Diana and Masayu Leylia Khodra	An Android-based Pre-coding Method for Social Story Therapy Game Application for Children With Autism	Syarifah Atika, Indra Aulia and Mohammad Fadly Syahputra
Sexism Detection and Classification Using RoBERTa and Data Augmentation	Gayuh Tri Rahutami and Fariska Zakhralativa Ruskanda	Reinforcement Learning for Turn-Based Strategy Game	Gabriel Jonathan and Nur Maulidevi
Automated Scoring of English Essays in CEFR Levels using LSTM and DistilBERT Embeddings	Nabelanita Utami and Fariska Zakhralativa Ruskanda	Development of Interaction Design for Ferizy Inter-Island Ferry Ticket Booking Mobile Application	Giovani Anggasta and Dessi Puji Lestari
BED: Bi-Encoder-Based Detectors for Out-of-Distribution Detection	Louis Owen, Biddwan Ahmed and Abhay Kumar	Data Transmission to Mobile Devices via Multiple QR Codes	Muhammad Rizky Ismail Faizal and Rinaldi Munir

## ICAICTA 2023 Parallel Sessions

Sunday, 8th October , 1.00 pm - 2.15 pm			
Parallel 6 Rinjani room		Parallel 6 Sasak room	
Topic : Question and Answering		Topic : Machine learning Healthcare	
Title	Authors	Title	Authors
End-to-end Question Answering System for Indonesian Documents Using TF-IDF and IndoBERT	Gunawan Nur Ahmad and Ade Romadhony	Codec Data Augmentation for Time-domain Heart Sound Classification	Ansh Mishra, Jia Qi Yip and Eng Siong Chng
Low-Resource Clickbait Spoiling for Indonesian via Question Answering	Ni Putu Intan Maharani, Ayu Purwarianti and Alham Fikri Aji	Supervised Learning Models for Early Detection of Albuminuria Risk in Type-2 Diabetes Mellitus Patients	Arief Purnama Muharram, Dicky Levenus Tahapary, Yeni Dwi Lestari, Randy Sarayar and Valerie Josephine Dirjayanto
QASiNa: Religious Domain Question Answering using Sirah Nabawiyah	Muhammad Razif Rizqullah, Ayu Purwarianti and Alham Fikri Aji	Conformational Search with Implicit Solvation Model for Prediction of Ligand-Bound Conformations	Naoto Tachibana, Yasuhiro Ikabata and Hitoshi Goto
Evaluating the Robustness of Question Answering Model against Context Variations	Takumi Matsuno and Masatoshi Tsuchiya		

Sunday, 8th October , 2.30 pm - 3.45 pm			
Parallel 7 Rinjani room		Parallel 7 Sasak room	
Topic : Automation and Scheduler		Topic : Miscellaneous Machine Learning Applications	
Title	Authors	Title	Authors
Automatic Measurement of Microservice Architecture Quality with Cohesion, Coupling, and Complexity Metrics	Alvin Wilta and Achmad Imam Kistijantoro	Implementation of Data Mining Techniques in Determining the Most Accurate Method to Examine Water Potability	Jefferson Johan, Jesse Orlanda, William Suryadharna Pangestu, Winita Teukeku Priyanto, Meiliana and Said Achmad
Automation 4.0 Training Environment based on PLCnext: A Technical Approach	Chalermpan Fongsamut, Prawit Boonmee, Prajaks Jitngernmadan and Kanuengnij Kubola	Knowledge-Based Credit Granting System in Indonesia with Artificial Intelligence and XAI Approach	Rolland Steven Supardi and Windy Gambetta
Analyzing Fair Share Fairness of Tasks in the Linux Completely Fair Scheduler using eBPF	Jesson Yo and Achmad Kistijantoro	Solid Waste Detection Service Platform: An Integrated Technology Aspect	Benchaporn Jantarakongkul, Bhusana Kong-On, Prajaks Jitngernmadan and Chalermpan Fongsamut