

JURNAL TEKNIK INFORMATIKA (JUTIF)

Volume 5 Number 1, February 2024

TABLE OF CONTENTS

<i>MATURITY CLASSIFICATION SYSTEM OF TOMATO BASED ON RGB COLOR FEATURES USING BACKPROPAGATION ARTIFICIAL NEURAL NETWORK METHOD</i> Gary Jeremi Massie, Azir Zuldani Pratama, Tiara Putri Sakira, Andi baso Kaswar, Dyah Darma Andayani	1-10
<i>CYBERBULLYING DETECTION ON TWITTER USES THE SUPPORT VECTOR MACHINE METHOD</i> Bayu Indra Kusuma, Aryo Nugroho	11-17
<i>CLOTHING RECOMMENDATION AND FACE SWAP MODEL BASED ON VGG16, AUTOENCODER, AND FACIAL LANDMARK POINTS</i> Imada Ramadhanti, Agi Prasetiadi, Iqsyahiro Kresna A.	19-29
<i>POLAK-RIBIERE CONJUGATE GRADIENT ALGORITHM IN PREDICTING THE PERCENTAGE OF OPEN UNEMPLOYMENT IN NORTH SUMATRA PROVINCE</i> Nanda Amalya, Solikhun	31-38
<i>USER INTERFACE DISPLAY DESIGN TO ASSIST FOOD WASTE MANAGEMENT USING THE USER CENTERED DESIGN METHOD</i> Moch Baiz Kamarulredzuan, Dadang Setiawan, Dana Sulistiyo Kusumo	39-50
<i>GENERATIVE ADVERSARIAL NETWORKS FOR ANTERIOR CRUCIATE LIGAMENT INJURY DETECTION</i> Sri Hasta Mulyani, Mohammad Diqi, Husna Arwa Salsabil	51-60
<i>DIGITAL IMAGE CLASSIFICATION OF HERBAL LEAVES USING KNN AND CNN WITH GLCM FEATURES</i> Dinna Zahirah, Purnawansyah, Nia Kurniati, Herdianti Darwis	61-67
<i>PERSONALITY DETECTION ON TWITTER USER USING XGBOOST ALGORITHM</i> Adinda Putri Rosyadi, Warih Maharani, Prati Hutari Gani	69-75
<i>COMPARISON OF ACCURACY LEVELS OF RANDOM FOREST AND K-NEAREST NEIGHBOR (KNN) ALGORITHMS FOR CLASSIFYING SMOOTH BANK CREDIT PAYMENTS</i> Bayu Aji Santoso, Kusrini, Anggit Dwi Hartanto	77-87
<i>SYSTEMATIC LITERATURE REVIEW ON INFORMATION SECURITY RISK MANAGEMENT IN PUBLIC SERVICE ORGANIZATIONS</i> Rifia Andita, Faizan Aditya	89-96

<p style="text-align: center;"><i>ANALYSIS FEATURE EXTRACTION FOR OPTIMIZING ARRHYTHMIA CLASSIFICATION FROM ELECTROCARDIOGRAM SIGNALS</i></p> <p style="text-align: center;">Yusril Ramadhan, Satria Mandala</p>	97-104
<p style="text-align: center;"><i>REDESIGNING THE UI/UX WEBSITE FOR THE INDUSTRIAL ENGINEERING DEPARTMENT AT MULAWARMAN UNIVERSITY USING DESIGN THINKING METHOD</i></p> <p style="text-align: center;">Amirul Hadi, Yudi Sukmono, Arif Harjanto, Didit Suprihanto</p>	105-119
<p style="text-align: center;"><i>DEPRESSION DETECTION ON TWITTER USING GATED RECURRENT UNIT</i></p> <p style="text-align: center;">Alfransis Perugia Bennybeng Holle, Warih Maharani</p>	121-128
<p style="text-align: center;"><i>OPTIMIZATION OF HYPERPARAMETERS FOR LSTM-BASED SENTIMENT ANALYSIS ON FACIAL SERUM DATASETS</i></p> <p style="text-align: center;">Merly Saputri, Teguh Iman Hermanto, Imam Ma'ruf Nugroho</p>	129-137
<p style="text-align: center;"><i>TOPIC CLASSIFICATION ON TWITTER USING CNN WITH WORD2VEC FEATURE EXPANSION</i></p> <p style="text-align: center;">Rifaldy Bintang Ramadhan , Erwin Budi Setiawan</p>	139-144
<p style="text-align: center;"><i>RECOMMENDATION SYSTEM FOR SELECTING HAIRCUT MODELS BASED ON FACIAL SHAPE USING THE VIOLA-JONES METHOD</i></p> <p style="text-align: center;">Samsudin, Risky Aswi Ramadhani, Ardi Sanjaya</p>	145-152
<p style="text-align: center;"><i>JOB-POSITION RECOMMENDER SYSTEM USING KNOWLEDGE BASED RECOMMENDATION METHOD AT ATMI POLYTECHNIC SURAKARTA</i></p> <p style="text-align: center;">Dinita Christy Pratiwi, Vihi Atina, Joni Maulindar</p>	153-161
<p style="text-align: center;"><i>DESIGN AND DEVELOPMENT OF COMPUTER-BASED TEST (CBT) SYSTEM IN THE ACADEMIC SELECTION PROCESS FOR RECRUITING SOLDIERS IN THE AIR FORCE</i></p> <p style="text-align: center;">Nabilla Anggraini Pratiwi, Dadang Iskandar, Nofiyati</p>	163-170
<p style="text-align: center;"><i>APPLICATION OF MACHINE LEARNING IN PREDICTING EMPLOYEE DISCIPLINE VIOLATIONS IN FINANCIAL SERVICE COMPANY</i></p> <p style="text-align: center;">Muhamad Fadel, Kanasfi, Arief Wibowo</p>	171-178
<p style="text-align: center;"><i>STATE OF THE ART ANALYSIS ON BATTERY-RELATED THREATS AND DEFENSES OF IOT DEVICES USING KITCHENHAM</i></p> <p style="text-align: center;">Azka Ghafara Putra Agung, Aditya Pradana, Rahmat Budiarto</p>	179-189
<p style="text-align: center;"><i>IMPLEMENTATION OF BAYES THEOREM ALGORITHM FOR WEB-BASED EXPERT SYSTEMS FOR DIAGNOSIS OF HUMAN SKIN DISEASES</i></p> <p style="text-align: center;">Yoga Handoko Agustin, Fitri Nuraeni, Anisa Devisa Putri</p>	191-199

<p><i>BLOOD VESSEL SEGMENTATION IN RETINAL IMAGES USING CONVOLUTIONAL NEURAL NETWORK VV-NET METHOD</i></p> <p>Sinta Bella Agustina, Erwin, Anita Desiani, Tommy Saputra</p>	<p>201-209</p>
<p><i>IMPLEMENTATION OF THE ELECTRE METHOD IN THE RECOMMENDATION SYSTEM AND API SERVICE PROVISION FOR TOURIST DESTINATIONS IN BANYUMAS REGENCY WITH INTERACTIVE MAPPING</i></p> <p>Guntur Satya Pramudya, Ipung Permadi, Nur Chasanah</p>	<p>211-219</p>
<p><i>COMPARISON OF SAW AND TOPSIS METHODS TO DETERMINE THE BEST SERVICE DESK AGENT</i></p> <p>Suryani, Angger Totik Prasetyo, Gandung Triyono</p>	<p>221-231</p>
<p><i>SENTIMENT ANALYSIS OF CUSTOMER SATISFACTION IN GOJEK AND GRAB APPLICATION REVIEWS USING THE NAIVE BAYES ALGORITHM</i></p> <p>Ridha Faiz Ananda, Alfi Syahri, Firman Noor Hasan</p>	<p>233-241</p>
<p><i>ANALYSIS OF PUBLIC SENTIMENT ON GOOGLE PLAY STORE TIJE APPLICATION USERS USING NAÏVE BAYES CLASSIFIER METHOD</i></p> <p>Laila Atikah Sari, Nindia Fitri Ramadhita, Firman Noor Hasan</p>	<p>243-251</p>
<p><i>ENHANCING NETWORK PERFORMANCE LOAD BALANCING IN CYBER CAFE NETWORKS WITH DIJKSTRA ALGORITHM ON MIKROTIK</i></p> <p>Andi Prayogi, Phak Len Al Eh Kan, Muhammad Akbar Syabana Pane, Rahmad Dian, Ratu Mutiara Siregar, Hasanah Fachri Satia Simbolon</p>	<p>253-261</p>
<p><i>PREDICTING FANTASY PREMIER LEAGUE POINTS USING CONVOLUTIONAL NEURAL NETWORK AND LONG SHORT TERM MEMORY</i></p> <p>Anas Satria Lombu, Irving Vitra Papatungan, Chandra Kusuma Dewa</p>	<p>263-272</p>
<p><i>IMPLEMENTATION OF LOAD BALANCING WITH PER CONNECTION CLASSIFIER AND FAILOVER AND UTILIZATION OF TELEGRAM BOT (CASE STUDY : PT TUJUH MEDIA ANGKASA)</i></p> <p>Ariya Pramudita, Rushendra</p>	<p>273-282</p>
<p><i>K-MEANS CLUSTERING WITH COMPARISON OF ELBOW AND SILHOUETTE METHODS FOR MEDICINES CLUSTERING BASED ON USER REVIEWS</i></p> <p>Safitri Juanita, Raynaldi Dwi Cahyono</p>	<p>283-289</p>
<p><i>FILM RECOMMENDATION USING CONTENT-BASED USING ARTIFICIAL NEURAL NETWORK METHOD AND ADAM OPTIMIZATION</i></p> <p>Dwi Hariyansyah Riaji, Erwin Budi Setiawan</p>	<p>291-300</p>

JURNAL TEKNIK INFORMATIKA (JUTIF)**Volume 5 Number 1, February 2024****EDITORIAL PREFACE**

Gratitude for the presence of Allah Subhana Wa Ta'ala, Jurnal Teknik Informatika (JUTIF) Volume 5, Number 1, February 2024 was published on February 17, 2024.

JUTIF in this edition has received quite a lot of article submissions, but in the process some of the best articles have been selected according to the results of the review. This edition of the issue contains 31 articles from authors with 28 affiliations and 5 countries, including:

Al-Azhar University (Egypt), Al-Baha University (Saudi Arabia), Sakarya Universitas (Turkey), Universiti Malaysia Perlis (Malaysia), Universitas Padjadjaran (Indonesia), Universitas Jenderal Soedirman (Indonesia), Universitas Negeri Makassar (Indonesia), Universitas Islam Indonesia (Indonesia), Universitas Telkom (Indonesia), Universitas Mercu Buana (Indonesia), Universitas Narotama (Indonesia), Institut Teknologi Telkom Purwokerto (Indonesia), Universitas Prof. Dr. HAMKA Muhammadiyah (Indonesia), STIKOM Tunas Bangsa Pematangsiantar (Indonesia), Universitas Respati Yogyakarta (Indonesia), Universitas Muslim Indonesia (Indonesia), Universitas AMIKOM Yogyakarta (Indonesia), Universitas Nasional (Indonesia), Universitas Mulawarman (Indonesia), STT Wastukencana Purwakarta (Indonesia), Universitas Nusantara PGRI Kediri (Indonesia), Universitas Duta Bangsa Surakarta (Indonesia), Universitas Budi Luhur (Indonesia), Institut Teknologi Garut (Indonesia), Institut Teknologi Sawit (Indonesia), Universitas Sriwijaya (Indonesia), Universitas Sumatera Selatan (Indonesia), National Cyber and Crypto Agency (Indonesia).

We give the highest appreciation to the authors, reviewers, the editorial team and all parties involved in the preparation and publication of JUTIF for Volume 5 Number 1 in February 2024. In an effort to improve the quality of both the content and appearance of the journal, we expect suggestions and constructive criticism for improvements to the Next Edition.

Editorial Team