CONTENTS

• PREFACE
• TECHNICAL COMMITTEE

SESSION-I: COMPUTER SCIENCE, ELECTRICAL & ELECTRONICS ENGINEERING

1. SOLVING TIMETABLING PROBLEM AS UNDIRECTED GRAPH USING GENETIC ALGORITHM
   Younis R. Elhaddad, Mohamed A. Alshaari

2. SPEAKER AND SPEECH RECOGNITION FOR SECURED SMART HOME APPLICATION
   R. Gomes, S. Shaji, L. Nadar, V. Vincent, S. Patnaik

3. THE LONG-RUN INTERNATIONAL PORTFOLIO DIVERSIFICATION BENEFITS: EVIDENCE FROM EMERGING MARKETS IN EUROPE, MIDDLE EAST AND AFRICA (EMEA)
   Huseyin Dagli, Prof., Ugur Sivri, Assist. Prof. and Semra BANK

4. HEAT CURVE PARAMETERS IDENTIFICATION USING CUCKOO SEARCH
   M. R. AlRashidi, K. M. EL-Naggar and M. F. AlHajri

5. GUI CONTROLLER DESIGN FOR QUADCOPTER CONTROL
   Dirman Hanafi and Mongkhun Qetkeaw

6. MODELS AND LANGUAGES FOR PARALLEL COMPUTATION
   Dr. Ali Mohamed Ramadan

7. A HIERARCHICAL DYNAMIC NEURAL NETWORK-BASED FAULT DETECTION OF THE ATTITUDE CONTROL SUBSYSTEM OF FORMATION FLYING SATELLITES
   S. Mousavi and K. Khorasani

8. WIMAX: DESIGN & FEATURES
   Inderpal Singh

SESSION-II: MECHANICAL, AERONAUTICAL AND CIVIL

9. THE STUDY OF THE PERFORMANCE OF THE ACETONE AND ALUMINUM FLAT PLATE HEAT PIPE
   Jui-Ching Hsieh, David T.W. Lin, Yuh-Chung Hu, Chung-Neng and Wei-Mon Yan

10. EXPERIMENTAL INVESTIGATION OF PCM-BASED HEAT SINK WITH DIFFERENT CONFIGURATIONS OF INTERNAL FINS
    S. Suresh, P. Selvakumar, Srikanth Salyan and Sriram V
11. THERMODYNAMIC ANALYSIS OF R134A – DMAC/ AL₂O₃ VAPOR ABSORPTION REFRIGERATION (VAR) SYSTEM
V. Mariappan, M. Udayakumar, S. Suresh, R. B. Anand and Kulkarni Shrikant Chandrakant

12. HEAT TRANSFER ENHANCEMENT USING NANOFIUID IN A SERPENTINE PASSAGE
Dr. K. R. Balasubramanian, Dr. S. Suresh and Dr. S. P. Sivapirakasam

13. RESPIRABLE FUME ANALYSIS DURING THE FLUX CORED ARC WELDING OF SS316L (N) AUSTENITIC STAINLESS STEEL
S. P. Sivapirakasam, Sreejith Mohan, K.R.Balasubramanian, M.Surianarayanan

14. EFFECT OF SURFACE MODIFICATIONS ON THE ENHANCEMENT OF CRITICAL HEAT FLUX IN SATURATED POOL BOILING
S.Venkatachalapathy, R. Kamatchi, Y. S. Kannan

15. PROCESSED WASTE ENGINE OIL AS FUEL IN DIESEL ENGINE
R. Anand and A.Zahir Hussain

16. INFLUENCES OF PULSED ELECTRIC CURRENT ON MECHANICAL PROPERTIES OF DP AND TRIP STEEL SHEETS
Jung Han Song, Jongsup Lee, Yong Bae Kim and Sung Min Bae

17. HYDROSTATIC EXTRUSION OF AL-MN/AL-SI ALLOY CLAD INGOT PREPARED BY DIRECT CHILL CONTINUOUS CASTING
Jongsup Lee, Yu-Hyun Kim, Yong-Bae Kim, Geun-An Lee, Jung-Han Song, Eung-Zu Kim, Sangmok Lee

18. PLANAR ANISOTROPY EVALUATION OF THE CAO-ADDED NEW AL5052 ALLOY SHEET WITH PLANE STRESS YIELD FUNCTIONS
Jung Han Song, Jongsup Lee, Sangmok Lee and Sung Jun Park

19. DESIGN OF ASmall FORM FACTORSIX-COMPONENT FORCE AND TORQUE SENSOR USING NOTCH HINGES
Daewoong Hong and Jaehwa Jeong

SESSION-III: MANAGEMENT, ECONOMIC AND FINANCE

20. ENTREPRENEURIAL CAPACITY OF UNIVERSITY STUDENT IN IRAN (MODEL OF PERSONALITY CHARACTERISTICS)
Navid Reza Boroomand Alipoor and Bijan Ganji Jamehshooran

21. IMPACT OF ORGANIZATIONAL REWARDS TOWARDS EMPLOYEE JOB PERFORMANCE
Sri Fatiany Abdul Kader Jalaini, Noor‘ain Mohamad Yunus, Syukrina Alini Mat Ali, Noor Azzah Said, Dilla Syadia Ab Latiff, Salina Jasney, Fatin Iylis Fadzil and Siti Zubaidah Abu Hassan
<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>22.</td>
<td>INTERNAL AUDIT INFLUENCE TO FRAUD PREVENTION (A CASE STUDY AT PT. PINDAD, BANDUNG- INDONESIA)</td>
<td>R. AitNovatiani and EhaJulaeha</td>
</tr>
<tr>
<td>23.</td>
<td>THE INFLUENCE OF SERVICE MARKETINGMIX PERFORMANCE AND CUSTOMER RELATIONSHIP MANAGEMENT ON STAR HOTEL CUSTOMER SATISFACTION AT BANDUNG</td>
<td>Rika Rachmawati</td>
</tr>
<tr>
<td>24.</td>
<td>LOGISTICS OF REAL-ESTATE DEVELOPMENT COMPARATIVE STUDY OF USA – THAILAND – GERMANY</td>
<td>Dr. Hermann Gruenwald</td>
</tr>
<tr>
<td></td>
<td><strong>SESSION-IV: ENVIRONMENTAL PROTECTION AND RENEWABLE ENERGY</strong></td>
<td></td>
</tr>
<tr>
<td>25.</td>
<td>REMOVAL OF HEAVY METALS FROM ELECTROPLATING WASTEWATER BY CASSAVA PEEL WASTE</td>
<td>Kanokphon Phaisanthia, Siraporn Potivichayanan, Nares Chuersuwan, and Khaniditha Meevasana</td>
</tr>
<tr>
<td>26.</td>
<td>APPLICATION OF ARTIFICIAL NEURAL NETWORKS TO PREDICT WATER CONTENT IN CRUDE OIL BY SPECIFIC GRAVITY AND PRESSURE</td>
<td>S. Mousavian, V. Nikkhah Rashidabad, M. Moghimi Mofrad, M. H. Vakili, N. Ghazinia, N. Malekzadeh</td>
</tr>
<tr>
<td>27.</td>
<td>INVESTIGATION OF ARTIFICIAL NEURAL NETWORKS PERFORMANCE TO PREDICT NET HEATING VALUE OF CRUDE OIL BY ITS PROPERTIES</td>
<td>S. Mousavian, V. Nikkhah Rashidabad, M. Moghimi Mofrad, A. Mansourizadeh, A. Malekzadeh</td>
</tr>
<tr>
<td>29.</td>
<td>DESIGN AND PERFORMANCE ANALYSIS OF SOLAR WATER PUMPING SYSTEM</td>
<td>Sui Tha Sung and Dr. Mi Sandar Mon</td>
</tr>
<tr>
<td>30.</td>
<td>HAZARDOUS WASTE MANAGEMENT IN A HEALTH CARE ORGANIZATION</td>
<td>K. Suseela Branham</td>
</tr>
</tbody>
</table>
31. EXTRACTION AND CHARACTERIZATION OF ESSENTIAL OIL FROM LEMONGRASS (Cymbopogon citratus) BY MICROWAVE-ASSISTED HYDRODISTILLATION
Abdurahman Hamid Nour, Ranitha Mathialagan, Ahmad Ziad Sulaiman and Azhari Hamid Nour

32. ULTRASONIC MEMBRANE ANAEROBIC SYSTEM (UMAS) FOR WASTEWATER TREATMENT
N.H. Abdurahman, Y.M. Rosli, N.H. Azhari

33. STUDY OF BIOETHANOL PRODUCTION OF NIPAH SAP (NYPA FRUTICANS) UNDER VARIOUS STARTER TYPES AND GLUCOSE CONCENTRATIONS
Warsono El Kiyat, David Salim, Annida Alfi Dipayani, Yuli Astuti, Melisa Riska Putri, Wiludjeng Trisasiwi