

2012 IEEE International Power Engineering and Optimization Conference

(PEOCO 2012)

**Malaysia
6-7 June 2012**



**IEEE Catalog Number: CFP1295J-PRT
ISBN: 978-1-4673-0660-7**

TECHNICAL PROGRAM

WEDNESDAY, 6TH JUNE 2012

Session 1A

Electrical Machines, Drive and Traction

Room : Function Room 2, Level 2

Time : 14:00 – 16:00

Chair : Prof. Dr. Saad Mekhilef

14:00 [Speed-Sensorless Control of Parallel-Connected PMSM Fed by a Single Inverter Using MRAS](#) 35

Ahmad Asri Abd Samat, Dahaman Ishak, Pais Saedin, Shahid Iqbal

14:13 [Development of Combined Vector and Direct Torque Control Methods for Independent Two Induction Motor Drives](#) 78

Md Hairul Nizam Talib, Zulkifilie Ibrahim, Nasrudin Abdul Rahim, Nurazlin Mohd Yaakop

14:26 [Vector Control Drive of Permanent Magnet Synchronous Motor Based dSPACE DS1103 Implementation](#) 147

Cheok Yong Seng, Zulkifilie Ibrahim

14:39 [Designing of Blower Motors on Mining Trucks](#) 242

Saeid Mirzaei, David L. Perugini

14:52 [Speed Performance of SVPWM Direct Torque Control for Five Leg Inverter Served Dual Three-Phase Induction Motor](#) 323

Nurazlin Mohd Yaakop, Zulkifilie Ibrahim, Marizan Sulaiman, Md Hairul Nizam Talib

15:05 [Stepper Motor Drives for Robotic Applications](#) 361

Benetta Arango, Prashant Kumar Soori, Puja Talukder

15:18 [Sizing Equation and Finite Element Analysis Optimum Design of Axial-Flux Permanent-Magnet Motor for Electric Vehicle Direct Drive](#) 1

Solmaz Kahourzade, Amin Mahmoudi, Nasrudin Abdul Rahim, Hew Wooi Ping

15:31 [Analysis of Indirect Rotor Field Oriented Vector Control for Squirrel Cage Induction Motor Drives](#) 505

Mehdi Mohammadzadeh Rostami

15:44 [Design Study of High Torque and High Power Density Hybrid Excitation Flux Switching Synchronous Motor for HEV Applications](#) 333

Erwan Sulaiman, Md Zarafi Ahmad

Session 1B

Optimization Technique

Room : Function Room 3, Level 2

Time : 14:00 – 16:00

Chair : Assoc. Prof. Dr. Ismail Bin Musirin

14:00 [An Efficient-Fast Method for Determining Minimum Loss Configuration in Radial Distribution Networks Based on Sensitivity Analysis](#) 46

Mohsen Cheraghi, Parviz Ramezanpour

14:13 [Fault Detection Using Dynamic Parity Space Approach](#) 52

Hazrul Mohamed Basri, Kasumawati Lias, Wan Azlan Wan Zainal Abidin, Kai Meng Tay, Hushairi Zen

14:26 [Throughput Improvement for Power Line Communication by Adaptive MAC Protocol](#) 135

Kuan-Hung Liu, Dung-Rung Hsieh, Jen-Yuan Hsu, Shih-Yu Chang

14:39 [Generation and Load Life-cycle Cost Optimisation Study at an Offshore Hub Platform](#) 306

Adam Junid, Mohamad Faudzi Yasir, Amri Ithnin, Vijanth Sagayan Asirvadam, Mohd Iqbal Ridwan, Asnawi M. Busrah

14:52 [Multi-objective Quantum-inspired Artificial Immune System Approach for Optimal Network Reconfiguration in Distribution System](#) 384

Norlee Husnafa Ahmad, Titik Khawa Abdul Rahman, Norziana Aminudin

15:05 [DG Sizing Impact for Loss Minimization Considering Cost Factor](#) 389

Omar Aliman, Ismail Musirin, Mohd Herwan Sulaiman

15:18 [Optimal Location and Sizing of Distributed Generation Using Optimization Technique](#) 527

Nur Zahirah Mohd Ali, Ismail Musirin, Mohd Redzuan Ahmad, Zulkeflee Khalidin

15:31 [Optimum Allocation and Sizing of DG Unit for Efficiency Enhancement of Distribution System](#) 165

Adnan Anwar, Hemanshu R. Pota

Session 2A

Protection & Power Quality Studies

Room : Function Room 2, Level 2

Time : 16:15 – 18:00

Chair : Dr. Hadi Zayandehroodi

16:15 [Modeling and Simulation of Digital Negative Sequence Relay for Unbalanced Protection of Generator](#) 72

Muhammad Mohsin Aman, Ghauth Jasmon, Muhammad Qadeer Ahmed Khan, Ab. Halim. Halim Abu Bakar, Mohd Noor Abdullah

16:28 [Power Quality Improvement Using an Enhanced Premium Power Park Configuration](#) 129

Masoud Farhoodnea, Azah Mohamed, Hussain Shareef, Hadi Zayandehroodi

16:41 [A New Tracking Method of Symmetrical Fault during Power Swing Based on S-Transform](#) 141

Nor Zulaily Mohamad, Ahmad Farid Abidin, Wan Noraishah Wan Abdul Munim

16:54 [An Analysis of Harmonics from Dimmable LED Lamps](#) 182

Sohel Uddin, Hussain Shareef, Azah Mohamed, M A Hannan

17:07 [A Novel Protection Coordination Strategy Using Back Tracking Algorithm for Distribution Systems with High Penetration of DG](#) 187

Hadi Zayandehroodi, Azah Mohamed, Hussain Shareef, Marjan Mohammadjafari, Masoud Farhoodnea

17:20 [Design a Unified Power Quality Conditioner using V2G Technology](#) 521

F. M. Rabiul Islam, Hemanshu R. Pota, Adnan Anwar, A.B.M. Nasiruzzaman

17:33 [Modeling and Simulation of Reverse Power Relay for Generator Protection](#) 317

Muhammad Mohsin Aman, Ghauth Jasmon, Qadeer Ahmed Khan, Ab. Halim Abu Bakar, Jasrul Jamani Jamian

17:46 [Study the Harmonic Characteristics of DC Bias on the Single Phase Power Transformer](#) 501

Siti Rahayu Mohamed, Syafruddin Hasan, Mohd Nor Khairul Anuar

Session 2B

High Voltage Engineering & Electromagnetic Compatibility

Room : Function Room 3, Level 2

Time : 16:15 – 17:45

Chair : Ir. Dr. Zahrul Faizi Hussien

16:15 [Dielectric Property of Waste Tire Dust-Polypropylene \(WTD-PP\) Composite for High Voltage Outdoor Insulation Application](#) 124

Aminudin Aman, Abdul Rahim Abdullah, Mohd Yaacob

16:28 [On the Consideration of the Channel Angle Effects on the Electromagnetic Fields Associated with Inclined Lightning Channel](#) 153

Mehdi Izadi, Mohd Zainal Abidin Ab Kadir, Chandima Gomes

16:41 [Leakage Current Analysis on Polymeric Surface Condition using Time-Frequency Distribution](#) 171

Nur Qamarina Zainal Abidin, Abdul Rahim Abdullah, Nurbahirah Norddin, Aminudin Aman, Khairul Anwar Ibrahim

16:54 [The Impact of Under Sized Cable on MV Vacuum Metal Clad Switchgear During Fault](#) 312

Hazri Dahalan Razip, F. R. Khairudin, M. N. Harun

17:07 [The Effect of Supply Voltage on Partial Discharge Properties in Solid Dielectric](#) 490

Siti Salwani Samat, Ismail Musirin, Aida Sulinda Kusim

17:20 [Magnetostriction Assessment of Power Transformer \(A Case Study of 30/40MVA, 132/33 kV Transformer at Bauchi Substation\)](#) 114

Ahmad Yusuf, Abdullahi Amoo, Usman Aliyu, Mohd Wazir Mustafa, Abdullah Asuhaimi Mohd Zin

17:33 [The Reduction of Total Harmonic Distortion and Electromagnetic Interference in High Pressure Sodium Street Lighting using Single Stage Electronic Ballast](#) 230

Mohd Omar, Hasimah Rahman, Mohammad Yusri Hassan, Md Shah Majid, Norzanah Rosmin

17:46 [Effect of DC Bias on Magnetization Current Waveforms of Single Phase Power Transformer](#) 496

Syafruddin Hasan, Soib Taib, Risnidar Chan, Siti Rahayu Mohamed

TECHNICAL PROGRAM

THURSDAY, 7TH JUNE 2012

Session 3A

Renewable Energy

Room : Function Room 2, Level 2

Time : 08:45 – 10:45

Chair : Dr. Akin Cellatoglu

- 08:45** [On the Monthly Optimum Tilt Angle of Solar Panel for Five Sites in Malaysia](#) **7**
Tamer Khatib, Azah Mohamed, Kamaruzzaman Sopian
- 08:58** [Analysis of Modular Renewable Energy Plants Functioning in Electrical Power Network](#) **23**
Akin Cellatoglu, Ahmet Yasli, Karuppanan Balasubramanian
- 09:11** [An Intelligent Under Frequency Load Shedding Scheme for Islanded Distribution Network](#) **40**
Javed Ahmed Laghari, Hazlie Mokhlis, Ab. Halim Abu Bakar, Mazaher Karimi, Amidaddin Shahriari
- 09:24** [Modelling and Simulation of Microturbine for a Distribution System Network with Hybrid Filter](#) **204**
Muhammad Shakir Laili, Zetty Nurazlinda Zakaria, Nasrul Helmei Halim, Pungut Ibrahim
- 09:37** [Novel Radio Frequency Energy Harvesting Model](#) **209**
Hossam ElAnzeery, Mohamed Abd ElAziz Saad ElBagouri
- 09:50** [Optimum Maximum Voltage Angle and Current Total Harmonic Distortion of Uninterruptible Power Supply on Three Level Single Phase Photovoltaic - Wind Power Hybrid Inverter](#) **225**
Muhammad Irwanto Misrun, Tunku Muhammad Nizar Tunku Mansur, Mohd Irwan, Gomes Nair Shasidharan
- 10:03** [Novel Hybrid Photovoltaic and Thermoelectric Panel](#) **269**
M.M.M. Daud, Nursyarizal Mohd Nor, Taib Ibrahim
- 10:16** [Study on Energy Efficient Street Lighting System Design](#) **291**
Safaa Alzubaidi, Prashant Kumar Soori
- 10:29** [Split-Parallel In-Wheel-Motor Retrofit Hybrid Electric Vehicle](#) **11**
Saiful A. Zulkifli, Nordin Saad, Syaifuddin Mohd, and A. Rashid A. Aziz

Session 3B

Power System Dynamics and Control

Room : Function Room 3, Level 2

Time : 08:45 – 10.30

Chair : Mr. Md. Zarafi Ahmad

08:45 [Combination of Adaptive and Intelligent Load Shedding Techniques for Distribution Network](#) 57

Mazaher Karimi, Hazlie Mokhlis, A. H. A. Bakar, Javed Ahmed Laghari, A. Shahriari, M. M. Aman

08:58 [Effective Two-Terminal Single Line to Ground Fault Location Algorithm](#) 246

Muhd Hafizi Idris, Mohd Wazir Mustafa, Yazhar Yatim

09:11 [Mathematical Model of Reliability Assessment for Generation System](#) 258

Vikram Kumar Kamboj, Amit Bhardwaj, Harkamaljeet Singh Bhullar, Krishan Arora, Kulraj Kaur

09:24 [Power System Network Sensitivity to Voltage Collapse](#) 379

Fahad Althowibi, Mohd Wazir Mustafa

09:37 [Fuzzy-based Static VAR Compensator Controller for Damping Power System Disturbances](#) 538

Nurul Aziah Arzeha, Mohd Wazir Mustafa, Rasyidah Mohamad Idris

09:50 [A Novel PQM Placement Method Using Cp and Rp Statistical Indices for Power Transmission and Distribution Networks](#) 102

Asadollah Kazemi, Azah Mohamed, Hussain Shareef

10:03 [Tolerance Analysis of Flicker Pst Short Term Perceptibility Assessment for One Minute Observation Time](#) 281

Rodney H.G. Tan, V.K. Ramachandaramurthy

10:16 [Condition Assessment of OLTC Using Duval Triangle and Static Winding Resistance Test](#) 432

Mohd Shahril Ahmad Khair, Yasmin Md Thayoob, Young Zaidey Yang Ghazali, Sharin Ab Ghani, Imran Sutan Chairul

10:29 [Analysis on Speed Characteristics of Five Leg Inverter for Different Carrier Based PWM Scheme](#) 96

Md Hairul Nizam Talib, Zulkiflie Ibrahim, Nasrudin Abdul Rahim, Ahmad Shukri Abu Hasim

Session 4A

Renewable Energy and Next Generation Grid

Room : Function Room 2, Level 2

Time : 10:45 – 12:45

Chair : Dr. Chin Kim Gan

10:45 [Development of Micro Air Flow Generator for Electrical Charging System](#) 329

A.S.A. Shabri, Taib Ibrahim, Nursyarizal Mohd Nor

10:58 [Mathematical Model of Compressed Air Energy Storage in Smoothing 2MW Wind Turbine](#) 339

Nor Shahida Hasan, Mohammad Yusri Hassan, Md Shah Majid, Hasimah Rahman

11:11 [Using Preisach Technique to Investigate Effects of Harmonics on the Hysteresis Loss of a Solid Core](#) 344

Ramadan Elmoudi, Safiuddin Mohammad

11:24 [A Review of Recent Development in Smart Grid and Micro-Grid Laboratories](#) 367

Meysam Shamshiri, Chin Kim Gan, Chee Wei Tan

11:37 [Power Optimization for a Small-sized Stallregulated Variable-speed Wind Turbine](#) 373

Norzanah Rosmin, Suhaila Samsuri, Mohammad Yusri Hassan, Hasimah Rahman

11:50 [Impact of a 200 MW Concentrated Receiver Solar Power Plant on Steady-State and Transient Performances of Oman Transmission System](#) 401

Omar H. Abdalla, Rashid Al-Badwawi, Hilal Al-Hadi, Hisham Al-Riyami, Ahmed Al-Nadabi

12:03 [Environmental Outturns of Cogeneration Installation at Industrial and Service Sectors in Malaysia](#) 427

Mohamed Shaaban, A. H. Azit, Khalid Mohamed Nor

12:16 [Mini-Grid Power System Optimization Design and Economic Analysis of Solar Powered Sea Water Desalination Plant for Rural Communities and Emergency Relief Conditions](#) 465

Nor Hanisah Baharudin, Tunku Muhammad Nizar Tunku Mansur, A. A. A. Wahab, Nurulazmi A. Rahman, E. A. R. E. Ariff, A. Ali

12:29 [Multi Population Genetic Algorithm for Allocation and Sizing of Distributed Generation](#) 108

Wen Shan Tan, Mohammad Yusri Hassan, Md Shah Majid

Session 4B

Computer and AI Application in Power Engineering

Room : Function Room 3, Level 2

Time : 10:45 – 12:45

Chair : Mr. Syed Qaseem Ali

10:45 [Optimal Allocation and Sizing of Distributed Generation in Distribution System via Firefly Algorithm](#) 84

Mohd Herwan Sulaiman, Mohd Wazir Mustafa, Azralmukmin Azmi, Omar Aliman, Siti Rafidah Abdul Rahim

10:58 [Pursuit Algorithm for Optimized Load Scheduling](#) 193

Syed Qaseem Ali, Syed Maqbool, Imthias Ahamed

11:11 [Differential Evolution Ant Colony Optimization \(DEACO\) Technique In Solving Economic Load Dispatch Problem](#) 263

Nur Azzammudin Rahmat, Ismail Musirin

11:24 [Approaches for FACTS Optimization Problem in Power Systems](#) 355

Ahmad Rezaee Jordehi, Jasronita Jasni

11:37 [BCO Based Technique for Line Outage Identification in Congestion Management](#) 395

Muhammad Norazam Rahim, Ismail Musirin, Zulkiffli Hamid, Nor Azwan Mohamed Kamari

11:50 [Application-based Context-Awareness in Collaborative Workspaces: A Review](#) 411

Nor Azlina Fadhillah, Nasiroh Omar, Siti Z. Z. Abidin

12:03 [Assessing the Performance of DG in Distribution Network](#) 436

Siti Rafidah Abdul Rahim, Ismail Musirin, Mohd Herwan Sulaiman, Muhamad Hatta Hussain, Azralmukmin Azmi

12:16 [Short Term Load Forecasting Using Artificial Neural Network with Feature Extraction Method and Stationary Output](#) 480

Muhammad Murtadha Othman, M.H.H. Harun, Ismail Musirin

12:29 [Enhancement of Branch and Bound Method in Composite Power System Expansion Planning Using Multithreading Technique](#) 548

Mohd Fuad Abdul Latip, Muhammad Murtadha Othman, Norliza Zaini, Ismail Musirin

12. 40 [Placement and Sizing of Thyristor Controlled Series Compensator Using PSO Based Technique for Loss Minimization](#) 285

Siti Amely Jumaat, Ismail Musirin, Muhammad Murtadha Othman, Hazlie Mokhlis

Session 5A

Transmission and Distribution

Room : Function Room 2, Level 2

Time : 14:00 – 16:00

Chair : Dr. Taib Ibrahim

14:00 [Modified Centrality Measure Based on Bidirectional Power Flow for Smart and Bulk Power Transmission Grid](#) 159

A.B.M. Nasiruzzaman, Hemanshu R. Pota, Adnan Anwar, F. M. Rabiul Islam

14:13 [Long-Term Load Balancing Program in LV Distribution Networks](#) 220

Ali Raminfard, S. Mohammad Shahrtash, Taraneh Herizchi, Hamid Khoshkhoo

14:26 [High Impedance Fault Localization in a Distribution Network using the Discrete Wavelet Transform](#) 349

Mohd Syukri Ali, A. B. Halim Abu Bakar, Hazlie Mokhlis, Hamzah Aroff, Hazlee Azil Illias, Muhammad Mohsin Aman

14:39 [Evaluation of Transformer Core and Winding Conditions from SFRA Measurement Results using Statistical Techniques for Distribution Transformers](#) 448

Sharin Ab Ghani, Yasmin Md Thayoob, Young Zaidey Yang Ghazali, Mohd Shahril Ahmad Khair, Imran Sutan Chairul

14:52 [Risk based Uncertainty \(RibUt\) of Power System Considering the Increased of Load Demand](#) 454

Muhammad Murtadha Othman, Siti Rohani Kasim, Nur Ashida Salim, Ismail Musirin

15:05 [Risk based Uncertainty \(RibUt\) Assessment of a Power System Using Bootstrap Technique](#) 460

Muhammad Murtadha Othman, Siti Rohani Kasim, Nur Ashida Salim, Ismail Musirin

15:18 [Optimal Flexible Solutions of Capacity Benefit Margin Considering Interconnected System Reliability](#) 470

Muhammad Murtadha Othman, Nurulazmi Abd Rahman, Daw Sasi, Ismail Musirin

15:31 [Inter-Area Transfer Capability Assessment Considering Optimal Flexible Solutions of Capacity Benefit Margin](#) 475

Muhammad Murtadha Othman, Nurulazmi Abd Rahman, Daw Sasi, Ismail Musirin

15:44 [Forecasting Short Term Electric Load based on Stationary Output of Artificial Neural Network Considering Sequential Process of Feature Extraction Methods](#) 485

Muhammad Murtadha Othman, M.H.H. Harun, Ismail Musirin

Session5B

Power System Planning and Operation

Room : Function Room 3, Level 2

Time : 14:00 – 16:00

Chair : Mr. Omar Aliman

- 14:00** [**A Numerical Method for Calculating the Loss of Life of Power Transformers**](#) **29**
Mohammad Tolou Askari, Mohd Zainal Abidin Ab Kadir, Jasronita Jasni
- 14:13** [**The Calculation of Low Voltage Solution Based on State Space Search Method in Ill-Conditioned System**](#) **62**
Amidaddin Shahriari, Hazlie Mokhlis, Mazaher Karimi, Javed Ahmed Laghari
- 14:26** [**Impact of Load Modeling in Distribution State Estimation**](#) **67**
Mazaher Karimi, Hazlie Mokhlis, Amidaddin Shahriari
- 14:39** [**Firefly Algorithm Technique for Solving Economic Dispatch Problem**](#) **90**
Mohd Herwan Sulaiman, Mohd Wazir Mustafa, Zetty Nurazlinda Zakaria, Omar Aliman, Siti Rafidah Abdul Rahim
- 14:52** [**Comparative Study of Power Grid Centrality Measures using Complex Network Framework**](#) **176**
A.B.M. Nasiruzzaman, Hemanshu R. Pota, Adnan Anwar
- 15:05** [**Statistical Distributions of Load Profiling Data**](#) **199**
Arfah Ahmad, Intan Azmira, Suziana Ahmad, Nur Ilyana Anwar Apandi
- 15:18** [**Unit Commitment in Electrical Power System – A Literature Review**](#) **275**
Amit Bhardwaj, Vikram Kumar Kamboj, Vijay Shukla, Bhupinder Singh, Preeti Khurana
- 15:31** [**Risk Evaluation of Uncertainties in Generation Scheduling Using Monte Carlo Simulation**](#) **422**
Mohd Dzulfafizi Mohd Usman, Mohamed Shaaban
- 15:44** [**Bagasse Saving and Emission Reduction in Power Dispatch at Sugar Factory by Co-generation and Solar Energy**](#) **407**
Faisal R. Pazheri, Zakariya M. Kaneesamkandi, Mohd Fauzi Othman

Session 6A

Power System Stability

Room : Function Room 2, Level 2

Time : 16:15 – 18:00

Chair : Dr. Jasronita Jasni

- 16:15** [A New Approach for Wind and Solar Type DG Placement in Power Distribution Networks to Enhance Systems Stability](#) 296
Naruttam K. Roy, Hemanshu R. Pota, Adnan Anwar
- 16:28** [Dynamic Small Disturbance Voltage Instability Prediction based on Wide Area Measurement System](#) 214
Hamid Khoshkhoo, S. Mohammad Shahrtaash
- 16:41** [Dynamic Stability Improvement of a Power System Incorporating DFIG Wind Power Plant Using Optimized Control Parameters of a SVC](#) 416
Morteza Mohammadi, Mohsen Gitizadeh, Alireza Roosta
- 16:54** [Computational Intelligence Approach for SVC-PID Controller in Angle Stability Improvement](#) 442
Nor Azwan Mohamed Kamari, Ismail Musirin, Zulkiffli Hamid, Muhammad Norazam Rahim
- 17:07** [Analysis of Fuzzy Power System Stabilizer using Various Defuzzification Interface for Takagi-Sugeno Fuzzy Logic](#) 533
Nur Safura Ab Khalid, Mohd Wazir Mustafa, Rasyidah Mohamad Idris
- 17:20** [Evaluation of the Effectiveness of Voltage Stability Indices on Different Loadings](#) 543
Zi Jie Lim, Mohd Wazir Mustafa, Zaniah Muda
- 17:33** [Small Signal Stability Assessment and Control of Power Systems](#) 515
Shojaeddin Mirfendereski, Noor Izzri Abdul Wahab, Jasronita Jasni, Mohammad Lutfi Othman
- 17:46** [Stability Index Tracing for Determining FACTS Devices Placement Locations](#) 17
Zulkiffli Hamid, Ismail Musirin, Muhammad Norazam Rahim, Nor Azwan Mohamed Kamari

Session 6B

Power Electronics Application and Converters

Room : Function Room 3, Level 2

Time : 16:15 – 18:00

Chair : Dr. Nursyarizal Mohd Nor

16:15 [Comparative Study of Different PWM Control Scheme for Three-Phase Three -Wire Shunt Active Power Filter](#) 119

Ahmad Shukri Abu Hasim, Md Hairul Nizam Talib, Zulkifilie Ibrahim

16:28 [UPS Parallelizing by Applying SVPWM Switching Method to Droop Control Strategy](#) 236

Hamid Reza Tajoddin, Hamed Tebianian

16:41 [Novel Reduced Parts On-Line Uninterruptible Power Supply](#) 252

Bahram Ashrafi, Mehdi Niroomand, Behzad Ashrafi Nia,

16:54 [Recessed Y-Gate AlN/GaN/AlGaN DHFET With GaN Cap Layer At The Gate Edge](#) 302

Md Shofiquel Islam Khan, Hossain Mohammad Mesbah Maruf, Mostakin Ahmed, M. A. Choudhury

17:07 [Speed Control of Induction Motor Drive Using Universal Controller](#) 509

Puja Talukder, Prashant Kumar Soori, Benetta Arango

17:20 [Analysis on Speed Characteristics of Five Leg Inverter for Different Carrier Based PWM Scheme](#) 96

Md Hairul Nizam Talib, Zulkifilie Ibrahim, Nasrudin Abdul Rahim, Ahmad Shukri Abu Hasim