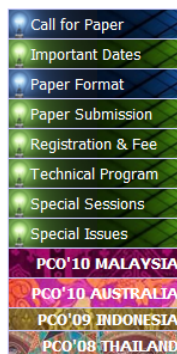




Home	Scope	Organizer	Committees	Sponsors	Speakers	Venue
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## Technical Program Final

PCO 2011  
Technical Program

**Day 0: Tuesday 31-5-2011, 18:00 – 21:00 Registration**

**Day 1: Wednesday 1-6-2011 (Poster Session: P18, E10, M11, N18)**

7:30-17:00	Registration
8:00-8:30	Open Ceremony
8:30-10:00	Speakers: Pandian Vasant: S17 Igor Papič, S18 Davor Škrlec
10:00-10:15	Tea Break
10:15-12:00	Special session: Davor Škrlec: P32, P34, P35, C11, C14, C16, C22, O37
12:00-13:00	Lunch
13:00-15:00	Workshop: Ivan Zelinka: C18, O11, O15, O16, O17, O19, O31, O32
15:00-15:15	Tea Break
15:15-17:00	Regular session: Jeffrey Webb: M10, M12, C13, J10, J11, J12, E15

**Day 2: Thursday 2-6-2011**

7:00-17:00	Registration
8:00-10:00	Speakers: Pandian Vasant: S14 Alejandro Donaire & S15 Felix Blyakhman
10:00-10:15	Tea Break
10:15-12:00	Speakers: Jeffrey Webb: S10 Dobrica Milovanovic & S20 Vitezslav Benda
12:00-13:00	Lunch
13:00-15:00	Special session: Weerakorn Ongsakul: P11, P12, P14, P15, P17, P21, P22, P30
15:00-15:15	Tea Break
15:15-17:00	Regular session: Igor Papič: O12, O13, O35, N10, N12, N14
19:00-22:00	Banquet Dinner

**Day 3: Friday 3-6-2011**

8:00-10:00	Speaker: Nader Barsoum: S11 Janos Sebestyven Janosy & S16 Habil Jiří Jaromir Klemes
10:00-10:15	Tea Break
10:15-12:00	Special session: Rami Fouad: E16, E20, E21, E22, E23, E24, E25, E28
12:00-13:00	Lunch
13:00-15:00	Special session: Tarek Helmy: E14, E18, E19, F10, F11, F12, F13, F14
15:00-15:15	Tea Break and closing ceremony

**Day 1: Wednesday 1-6-2011**

**8:30-10:00**

**S17 ACTIVE DISTRIBUTION NETWORKS – SLOVENIAN APPROACH**

*Igor Papič*

University of Ljubljana, Faculty of Electrical Engineering, Trzaska 25, SI-1000 Ljubljana, Slovenia

**S18 CONTROL AND OPTIMIZATION OF MICRO-GRIDS WITH ELECTRIC AND HEAT ENERGY RESOURCES**

*Davor Škrlec*

Faculty of Electrical Engineering and Computing, Department of Power Systems, University of Zagreb, Zagreb, Croatia

**10:15-12:00**

**P32 VOLTAGE REGULATION IN DISTRIBUTION NETWORKS WITH DISTRIBUTED GENERATION**

*B. Blažič, B. Ujčanič, and I. Papič*

University of Ljubljana, Ljubljana, Faculty of Electrical Engineering, Slovenia

**P34 DETERMINISTIC POWER FLOW OPTIMIZATION IN AN EXPERIMENTAL MICRO-GRID**

*Mario Vašak, Mato Baotić, Nedjeljko Perić*

University of Zagreb Faculty of Electrical Engineering and Computing

**P35 IMPLEMENTATION AND CONTROL OF DEMAND SIDE MANAGEMENT AND MICRO-GENERATION IN SMART GRIDS**

*Sasa Z. Djokic, Igor Papic*

The University of Edinburgh, University of Ljubljana

**C11 FEEDBACK CONTROL SCHEMES FOR GANTRY CRANE SYSTEM WITH DIFFERENT ROPE LENGTH**

*M.A. Zawawi, K.A. Mohd Yusoff, M.A. Ahmad, M.S. Saealal*

Faculty of Electrical & Electronics Engineering, Universiti Malaysia Pahang, Malaysia

**C14 WIRELESS NAVIGATION FOR TWO WHEELS BALANCING BALBOTS**

*Nor Maniha Abdul Ghani, Lee Kong Haur*

Faculty of Electrical & Electronics Engineering, Universiti Malaysia Pahang

**C16 LINEAR PREDICTIVE CONTROL WITH STATE VARIABLE CONSTRAINTS**

*K.Bdirina, D. Djoudi, M.Lagoun*

Departement of electrical engineering, Ziane Achour Djelfa University, Algeria

**C22 POTENTIAL ROLE OF DEMAND-SIDE TECHNOLOGIES FOR PROVIDING FLEXIBLE SYSTEM SERVICES**

*Marko Aunedi Goran Strbac*

Imperial College London Imperial College London

**O37 OPTIMAL CONTROL OF ACTIVE NETWORKS WITH CENTRALIZED DISTRIBUTION MANAGEMENT SYSTEMS**

*Fabrizio Pilo, Giuditta Pisano, Gianni Celli, Gian Giuseppe Soma*  
University of Cagliari, Italy

13:00-15:00

**C18 PID CONTROLLER SYNTHESIS FOR TIME-DELAY SYSTEM VIA GENETIC PROGRAMMING**

*Ing. Martin Macháček, Ing. Ivan Zelinka*  
Tomas Bata University in Zlín, Faculty of Applied Informatics, nám. T. G. Masaryka, Czech Republic  
Department of Computer Science, Faculty of Electrical Engineering and Computer Science, Czech Republic

**O11 PARTICLE SWARM OPTIMIZATION APPROACH FOR ESTIMATION OF ENERGY DEMAND OF TURKEY**

*Turan Paksoy<sup>A</sup>, Eren Özceylan<sup>A</sup>, Nimetyapıcı Pehlivan<sup>B</sup>, Gerhard-Wilhelm Weber<sup>C</sup>*  
<sup>A</sup> Selçuk University, Department of Industrial Engineering, Campus, 42031, Konya, Turkey  
<sup>B</sup> Selçuk University, Department of Statistics, Campus, 42031, Konya, Turkey  
<sup>C</sup> Middle East Technical University, Institute of Applied Mathematics, 06531, Ankara, Turkey

**O15 SOLVING DETERMINISTIC NON-LINEAR PROGRAMMING PROBLEM USING HOPFIELD ARTIFICIAL NEURAL NETWORK AND GENETIC PROGRAMMING TECHNIQUES**

*P. Vasant, T. Ganesan & I. Elamvazuthi*  
Engineering Mathematics Program, FASD, University Technology Petronas, Malaysia  
Mechanical Engineering Department, University Technology Petronas, Malaysia  
Electrical & Electronic Engineering Department, University Technology Petronas, Malaysia

**O16 HYBRID SELF ORGANISING MIGRATING ALGORITHM – SCATTER SEARCH FOR THE TASK OF CAPACITATED VEHICLE ROUTING PROBLEM**

*Donald Davendra, Ivan Zelinka, Roman Senkerik, Roman Jasek and Magdalena Bialic-Davendra*  
Tomas Bata University in Zlín, Faculty of Applied Informatics nám. T. G. Masaryka, Zlín, Czech republic

**O17 SYNTHESIS OF FEEDBACK CONTROL LAW FOR STABILIZATION OF CHAOTIC SYSTEM OSCILLATIONS BY MEANS OF ANALYTIC PROGRAMMING – PRELIMINARY STUDY**

*Roman Senkerik, Zuzana Oplatkova, Ivan Zelinka, Donald Davendra, Roman Jasek*  
Tomas Bata University in Zlín, Faculty of Applied Informatics, Nam T. G. Masaryka, Zlín, Czech Republic  
Department of Computer Science, Faculty of Electrical Engineering and Computer Science, VB-TUO, 17, listopadu 15, 708 33 Ostrava-Poruba, Czech Republic

**O19 ROBUST CONIC GENERALIZED PARTIAL LINEAR MODELS USING RCMARS METHOD – A ROBUSTIFICATION OF CGPL**

*Ayşe Özmen, Gerhard Wilhelm Weber*  
Institute of Applied Mathematics, Middle East Technical University, Ankara, Turkey

**O31 EVOLUTIONARY TECHNIQUES AND ITS POSSIBILITY TO IDENTIFY CATASTROPHIC EVENTS**

*Ivan Zelinka, Donald Davendra, Roman Senkerik, Roman Jasek*  
Department of Informatics and Artificial Intelligence, Tomas Bata University in Zlín, Nad Stráněmi, Zlín, Czech Republic  
Department of Computer Science, Faculty of Electrical Engineering and Computer Science, VSB-TUO, 17, listopadu, Ostrava-Poruba

**O32 A SIMPLE ROUTE TO RANDOMNESS**

*Qihong Chen*  
Shanghai University of Finance and Economics, Shanghai, China

15:15-17:00

**M10 STRUCTURAL DYNAMIC ANALYSIS OF A BALL JOINT**

*Seok-Cheol Hwang, Kwon-Hee Lee*  
Department of Mechanical Engineering, Dong-A University, Busan, Korea

**M12 SOME CONTROVERSIES CONCERNING FLUID FLOW AND TURBULENCE MODELLING IN 4-V ALVE ENGINES**

*Z. Jovanovic*  
Institute of Nuclear Science Vinca, Department for IC Engines and MV, University of Belgrade

**C13 CONTROL OF THE ELECTRO-RESISTANCE EFFECT OBTAINED IN Pr<sub>0.5</sub>Ca<sub>0.5</sub>MnO<sub>3</sub> MAGNETIC OXIDE THIN FILM BY ELECTROSTATIC FIELD IN A FERROELECTRIC/MANGANITE OPTIMIZED DEVICE**

*Ritha Soullmane, Anne-Marie Haghir, Wilfrid Prellier, Gilles Poullain, Rachid Bouregba, Bernard Mercey*  
Laboratoire de Catalyse & Synthèse en Chimie Organique, BP 119, Université A. Belkaid, Tlemcen, Algérie  
Laboratoire de Photonique et de Nanostructures, LPN-CNRS, 91460 Marcoussis, France  
Laboratoire de Cristallographie et de Sciences des Matériaux, CRISMAT – ISMRA, CNRS UMR Caen, France

**J10 MODELING OF GRAPHENE NANO-RIBBON SCHOTTKY DIODES IN THE PARABOLIC BAND STRUCTURE LIMIT**

*N. S. Moghaddam, M. T. Ahmadi, J. F. Webb, M. Rahmani, H. Sadegi, M. Musavi, R. Ismail*  
Faculty of Electrical Engineering, Universiti Teknologi Malaysia, Skudai, Johor, Malaysia  
School of Engineering and Science, Swinburne University of Technology, Sarawak Campus, Kuching, Sarawak, Malaysia

**J11 TRILAYER GRAPHENE NANORIBBON CARRIER STATISTIC IN DEGENERATE AND NON DEGENERATE LIMITS**

*M. Rahmani, M. T. Ahmad, J. F. Webb, N. Shayesteh, S. M. Mousav, H. Sadeghi, R. Ismail*  
Faculty of Electrical Engineering, Universiti Teknologi Malaysia, Skudai, Johor, Malaysia  
School of Engineering and Science, Swinburne University of Technology, Sarawak Campus, Kuching, Sarawak, Malaysia

**J12 INTENSITY MODULATION RESPONSE OF A QUANTUM CASCADE LASER EMITTING LIGHT OF 9 MICROMETER WAVELENGTH**

*J. F. Webb, M. K. Haldar*  
School of Engineering and Science, Swinburne University of Technology, Sarawak Campus, Kuching, Sarawak, Malaysia

**E15 VOLTAGE AND FREQUENCY CONTROL OF SEIG FOR STAND-ALONE RENEWABLE ENERGY SYSTEM**

*Chitra. N, Sasikumar. K, Sudha Mahendravarmam*  
Department of Electrical & Electronics Engineering, S.K.P Engineering College, Thiruvannamalai, E.S college of Engineering and Technology, Villupuram Tamil Nadu, India

**E10 FABRICATION AND INSTALLATION OF DUAL-AXIS SOLAR TRACKING CONTROLLER**

*Nader Barsoum & Adrian Daniel*  
Curtin University, Sarawak, Malaysia

**M11 EFFECT OF THE BENDING ANGLE OF AN ARCH WIRE FOR ORTHODONTIC APPLIANCE**

*Byung-Hyung Jeon, Kwon-Hee Lee*  
Department of Mechanical Engineering, Dong-A University, Busan, Korea

**N18 LATENCY STUDY OF SPARTAN-3AN BASED TRUNCATED MULTIPLIERS**

*Mohamed H. Al Mijalli*  
Bio Medical Technology Department, College of Applied Medical Sciences, King Saud University, Riyadh, Saudi Arabia

**Day 2: Thursday 2-6-2011**

**8:00-10:00**

**S14 BOND GRAPHS AND PORT-HAMILTONIAN FORMALISMS FOR MODELING AND CONTROL OF PHYSICAL SYSTEMS**

*Alejandro Donaire*

Centre for Complex Dynamic Systems and Control, University of Newcastle, Callaghan, NSW, Australia

**S15 LEFT VENTRICLE STRUCTURAL INHOMOGENEITY AND THE HEART FUNCTIONAL RESERVE**

*Felix Blyakhman*

Ural State Medical Academy, Russia

**10:15-12:00**

**S10 ENERGY EFFICIENCY IN BUILDINGS, INDUSTRY AND TRANSPORTATION**

*Dobrica Milovanovic, Milun Babic, Nebojsa Jovicic, Dusan Gordic*

University of Kragujevac, Faculty of Mechanical Engineering

**S20 PHOTOVOLTAIC CELLS AND MODULES – STATE OF ART AND FUTURE TRENDS**

*Vitezslav Benda*

Czech Technical University in Prague

**13:00-15:00**

**P11 FAULT ANALYSIS OF AN INVERTER FED INDUCTION MOTOR UNDER DC LINK CAPACITOR SHORT CIRCUIT CONDITION**

*Hadeed Ahmed Sher, Zahir J Paracha, Yasin Khan, Khaled E. Addoweesh*

Department of Electrical Engineering, King Saud University, Riyadh, Saudi Arabia

School of Engineering and Science, Victoria University, Australia

**P12 PARTICLE SWARM OPTIMIZATION WITH CONSTRICTION FACTOR FOR OPTIMAL REACTIVE POWER DISPATCH**

*Vo Ngoc Dieu, Peter Schegner, Weerakorn Ongsakul*

Energy Field of Study, Asian Institute of Technology, School of Environment, Resources and Development, Asian Institute of Technology, Pathumthani, Thailand

Institute of Electrical Power Systems and High Voltage Engineering, Technische Universität Dresden, Dresden, Germany

**P14 AUGMENTED LAGRANGE HOPFIELD NETWORK FOR ECONOMIC DISPATCH PROBLEMS**

*Vo Ngoc Dieu, Peter Schegner, Weerakorn Ongsakul*

School of Environment, Resources and Development, Asian Institute of Technology, P.O. Box 4, Klongluang,

Pathumthani, Thailand

Institute of Electrical Power Systems and High Voltage Engineering, Technische Universität Dresden, Dresden,

Germany

**P15 ROBUST OPTIMIZATION-BASED DC OPTIMAL POWER FLOW FOR MANAGING WIND GENERATION UNCERTAINTY**

*Chanwit Boonchuay, Kevin Tomsovic, Fangxing L, Weerakorn Ongsakul*

Energy Field of Study, Asian Institute of Technology, Pathumthani, Thailand

Department of Electrical Engineering and Computer Science, The University of Tennessee, Knoxville, USA

**P17 IMPLEMENTATION OF MOTOR SPEED CONTROL USING PID CONTROL IN PROGRAMMABLE LOGIC CONTROLLER**

*R.E.Samin, N.A.Azmi, M.A.Ahmad, M.R. Ghazali and M.A. Zawawi*

Faculty of Electrical & Electronics Engineering, Universiti Malaysia Pahang

**P21 EFFECT OF UNIFORM IONISATION SOURCE ON FLUID MODEL OF GLOW DISCHARGE**

*Djillalia. Guendouz, Azeddine. Hamid*

Electrotechnic Department, Sciences and Technology Oran University (USTO)

**P22 CRITICAL VOLTAGE PROXIMITY INDEX INVESTIGATION FOR TRANSMISSION SYSTEMS**

*Alexis Polycarpou, Hassan Nouri, Dan Micu*

Frederick University, Cyprus, University of the West of England, UK, Cluj-Napoca Uni., Romania

**P30 TRANSMISSION SERVICE COST OPTIMIZATION IN IEEE 30-BUS TEST SYSTEM**

*Alireza Tavakoli Shoohtari, Mahmood Joorabian, Armin Ebrahimi Milani*

Department of Electrical Engineering, Ahwaz Branch, Islamic Azad University, Ahwaz, Iran

Department of Electrical Engineering, Dezful Branch, Islamic Azad University, Dezful, Iran

Young Researchers Club, Science and Research Branch, Islamic Azad University, Tehran, Iran

**15:15-17:00**

**O12 A HYBRID INTELLIGENT ALGORITHM-BASED COLOR SPACE CONVERSION FOR SKIN DETECTION**

*Amin Khatami, Saeed Mirghasemi*

Department of Computer and IT Engineering, Islamic Azad University Parand branch, Parand, Iran

**O13 IT VENDOR SELECTION MODEL COMBINING STRUCTURAL EQUATION MODEL AND ANALYTICAL HIERARCHY PROCESS**

*Sarit Maitra, PDD.Dominic*

Department of Computer & Information Sciences, Universiti Teknologi PETRONAS, Malaysia

**O35 A NEW MODEL FOR STRATEGY FORMULATION USING MAHALANOBIS-TAGUCHI SYSTEM AND CLUSTERING ALGORITHM**

*Ali Hadighi, Iraj Mahdavi*

Department of Industrial Engineering, Mazandaran University of Science and Technology, Babol, Iran

**N10 A PERSPECTIVE OF PARTIAL DISCHARGE PATTERN CLASSIFICATION UNDER SUPERVISED LEARNING**

*Sudha Mahendrarvarman*

Department of Electrical and Electronics Engineering, E.S College of Engineering and Technology

Villupuran, Tamil Nadu, India

**N12 AN INTRA-CELL LAYOUT DESIGN MODEL IN DYNAMIC CELLULAR MANUFACTURING SYSTEMS WITH UNEQUAL-AREA FACILITIES, ALTERNATIVE PROCESS ROUTINGS AND CELL RECONFIGURATION**

*Yousef Nejatbakhsh, Reza Kia, Javad khorrami, Iraj Mahdavi, Nikbakhsh Javadian, Mohammad Kazemi*

Department of Mathematics, Islamic Azad University, Firoozkooh Branch, Firoozkooh, Iran

Department of Industrial Engineering, Islamic Azad University, Firoozkooh, Iran

Department of Industrial Engineering, University of Science & Technology, Babol, Iran

**N14 A SENSOR NETWORK QUERY LANGUAGE USING CONDITIONAL BRANCHING AND FILTERING TARGET NODES**

*Chong Sok Lim, Jaehyoung Lim, Soon J. Hyun*

Information and Communication Engineering Department, Computer Science Department

Korea Advanced Institute of Science and Technology, Daejeon, Korea



### Day 3: Friday 3-6-2011

8:00-10:00

#### **S11 THE IMPORTANCE OF SIMULATORS IN MAINTAINING SAFETY AND EFFICIENCY OF NUCLEAR POWER GENERATION**

*Janos Sebestyen Janosy*

MTA KFKI Atomic Energy Research Institute, Simulator Development Department, Budapest Hungary

#### **S16 HEAT INTEGRATION AND RENEWABLE – RECENT DEVELOPMENTS AND ACHIEVEMENTS**

*Jiří Jaromír Klemeš, Petar Sabej Varbanov*

Centre for Process Integration and Intensification - CPI2, Research Institute of Chemical and Process Engineering  
Faculty of Information Technology, University of Pannonia, Egyetem, Veszprém, Hungary

10:15-12:00

#### **E16 HYBRID RENEWABLE ENERGY SOLUTION FOR SAFARI CAMPS IN UAE**

*Okba M. Zoubeidi, Abbas A. Fardoun, Hassan Noura, Chem Nayar*

Department of Electrical Engineering, United Arab Emirates University, Al-Ain, United Arab Emirates  
Department of Electrical and Computer Engineering, Curtin University of Technology, Perth, Australia

#### **E20 ENERGY END-USE MODEL OF THE JORDANIAN SMES INDUSTRIES**

*Adnan ALBashir, Rami H. Fouad, M.ALSalaymeh, Y. Al-Abdallat, Al-Ghandoor*

Industrial Engineering Department, The Hashemite University, Zarqa, Jordan,  
Industrial Engineering Department, The University of Jordan, Amman 11942, Jordan,

#### **E21 ENERGY AND EXERGY UTILIZATIONS OF THE JORDANIAN SMES INDUSTRIES**

*A. Al-Ghandoor, M.ALSalaymeh, Y. Al-Abdallat*

Industrial Engineering Department, The Hashemite University, Zarqa, Jordan  
Industrial Engineering Department, The University of Jordan, Amman, Jordan

#### **E22 JORDANIAN INDUSTRIAL SECTOR FUTURE ENERGY CONSUMPTION: POTENTIAL SAVINGS AND ENVIRONMENTAL IMPACT**

*Y. Al-Abdallat, M.ALSalaymeh, and A. Al-Ghandoor*

Industrial Engineering Department, The University of Jordan, Amman, Jordan,  
Industrial Engineering Department, The Hashemite University, Zarqa, Jordan,

#### **E23 A STUDY ON THE JORDANIAN OIL SHALE RESOURCES AND UTILIZATION**

*Ahmad Sakhrich, Mohammed Hamdan*

The University of Jordan, Al-Zaytoonah Private University

#### **E24 BUILDING HAND ACTIVITIES APPLICATION FOR CEREBRAL PALSY CHILDREN**

*Sahar Idwan, Salamh Aldajeha, Izzeddin Matar, Rana Mutlaq*

Department of Computer Science and Applications, Prince Al-Hussein bin Abdullah II Faculty of Information Technology, The Hashemite University, Jordan  
Department Physical Therapy, Faculty of Allied Health Sciences, The Hashemite University, Jordan  
Department of Software Engineering, Faculty of Information Technology, Petra University, Queen Alia International Road, Jordan

#### **E25 APPROACHES FOR THE COMPUTATIONALLY EFFICIENT ASSESSMENT OF THE PLUG-IN HEV IMPACT ON THE GRID**

*Tae-Kyung Lee, Zoran S. Filipi*

Department of Mechanical Engineering, University of Michigan, Ann Arbor, MI 48109, USA

#### **E28 SPECIFYING OPTIMAL NUMBER OF CELLS USING DISSIMILARITY MEASURE**

*Adnan M. Mukattash, Rami H. Fouad, Adnan ALBashir. and A. ALGandoor*

Industrial Engineering Department, Hashemite University

13:00-15:00

#### **E14 OPTIMIZED USAGE OF SOLAR ENERGY BY NEW STRUCTURE WITH MICROCONTROLLER**

*Farzin Shama, Gholam Hossein Roshani, Arash Ahmadi, Sobhan Roshani, Saber Karami, Miad Ekhteraee*

Department of Electrical engineering, Razi University, Department of physic engineering, Amirkabir University of Technology, Iran  
Department of physic engineering, Amirkabir University of Technology, Department of Electrical engineering, Azad Kermanshah University, Iran

#### **E18 AN ECO-FRIENDLY PROCESS FOR CLEANER HYDROGEN PRODUCTION**

*Dalila Taieb, A. Ben Brahim*

Unité de Recherche Thermodynamique Appliquée (99/UR/11-21), Ecole Nationale d'Ingénieurs de Gabès, Université, de Gabès, Tunisie

#### **E19 MOLECULAR WEIGHT EFFECT ON CHROMIUM RETENTION BY OCTYL GRAFTED POLY (4-VINYLPYRIDINE)**

*Choukchou-Braham Esma\*, Djamaà Zoulikha, Benabadi Ismet Kamel and Mansri Ali*

Laboratoire d'Application des Electrolytes et des Polyélectrolytes Organiques (LAEPO). Université de Tlemcen, Département de Chimie, Algérie

#### **F11 PREDICTION OF POROSITY AND PERMEABILITY OF OIL AND GAS RESERVOIRS USING SUPPORT VECTOR MACHINES AND ARTIFICIAL NEURAL NETWORKS: A COMPARATIVE STUDY**

*Ewenla A., Anifowose F.A., Akanbi L.A., Oluwatope O.A., Aderounmu G.A.*

Department of Computer Science & Engineering, Obafemi Awolowo University, Nigeria  
Center for Petroleum & Minerals, King Fahd University of Petroleum and Minerals, Saudi Arabia

#### **F12 NON-HYDROCARBONS GAS COMPONENTS PREDICTION IN MULTISTAGE SEPARATOR USING NEURAL NETWORKS**

*M. Imtiaz Hossain, Tarek Helmy, M. Rafiul Hassan, A. Abdulraheem, A. Khoukhi#, M. Elshafei*

Department of Information and Computer Science, Department of Petroleum Engineering, Department of Systems Engineering, King Fahd University of Petroleum & Minerals, KSA

#### **F13 IMPACT OF TRAINING-TESTING STRATIFICATION PERCENTAGE ON ARTIFICIAL INTELLIGENCE TECHNIQUES: A CASE STUDY OF POROSITY AND PERMEABILITY PREDICTION**

*Fatai Anifowose, Amar Khoukhi, Abdulazeer Abdulraheem*

Research Institute, Center for Petroleum & Minerals, Department of Systems Engineering, College of Computer Science & Engineering, Department of Petroleum Engineering, King Fahd University of Petroleum and Minerals, Saudi Arabia

#### **F14 FUNCTIONAL NETWORKS AS A BEST-MODEL SELECTOR IN HYBRID COMPUTATIONAL INTELLIGENCE MODELS FOR PETROLEUM RESERVOIR CHARACTERIZATION**

*Fatai Anifowose, Tarek Helmy, Abdulazeer Abdulraheem*

The Research Institute, Center for Petroleum and Minerals, Information & Computer Science Department, College of Computer Science & Engineering, Petroleum Engineering Department, College of Engineering Sciences, King Fahd University of Petroleum & Minerals, Saudi Arabia

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