

**SRO5 Satellite Conference:
TOPICS IN ELECTRICAL CIRCUITS AND SYSTEMS
26 – 27 October 2008**

Day One: Sunday, 26 October 2008

07:00 08:00 Registration

08:00 10:00 Keynote Session:

Introduction of session:

Dr. Issa Batarseh, University of Central Florida, USA.

Keynote speaker:

1856ECS I.

Dr. Muhammad H. Rashid, University of West Florida, USA.

Advances in Power Electronics and Applications in Renewable Energy.

General Discussion

10:00 10:30 Coffee Break

10:30 12:30 Session I : “Digital Signal Processing” and “Signals and Systems”:

Chairpersons:

Dr. Ehab F. El-Saadany, University of Waterloo, Canada.

1313ECS C

**Suruz Miah, Wail Gueaieb, School of Information Technology and Engineering
University of Ottawa, Canada.**

Mobile Robot Navigation Using Custom-Made Rfid Tag System.

188ECS C

**Djamel Chikouche, Raïs El'hadi Bekka, Miloud Bentoumi, University of M'sila,
Algeria.**

**Implementation of Iir Filters by Using Systolic Architectures With Dynamic
Reconfiguration.**

1526ECS2 C

**A. Hentout, B. Bouzouia, Z. Toukal, Advanced Technologies Development Centre,
Algeria.**

Collision-Free Path Planning for Holonomic Mobile Manipulator Robots.

1132ECS C

Muhammed A. Ibrahim, Salahaddin University, Iraq.

**Electrically Tuneable Transadmittance-Mode Low Pass and Band Pass Filter With
High Input and Output Impedances.**

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546ECS C

Arkan K. Hussein Al-Taie, Haitham B. Azez Al-Wakeel, Ministry of Science and Technology, Iraq.
Three Dimensional Aerodynamic Design System.

169ECS C

Ranya M. Dawod, Ahmed H. Abood, Zeki . A. Ahmed, Iraq.
Theoretical Investigation of Radiation Fields Calculation from Wire Antenna As Body Of Revolution (Bor).

1526ECS1 C

A. Hentout, I. Akli, M. Kadri, B. Bouzouia, Z. Toukal, A. Rahiche, Advanced Technologies Development Centre, Algeria.
Implementation of Basic Functionalities of a Driving Mobile Manipulator Robots Architecture: Application on the Robuter/Ulm.

اشراق مرزّة,ستار بدر سدخان

تطوير نظام ضغط الصور بالاعتماد على تطبيق تحويل الموجة المتقطع على صورة خطأ التنبؤ

General Discussion

12:30 13:30 Lunch Break

13:00 14:00 Poster Session I; See Appendix

14':00 16:00 Session II : “Machines and Drives” and “Power Systems”

Chairpersons:

Dr. Olfa Kanoun, Technische Universität Chemnitz, Germany.

1133ECS2 C

Driss Yousfi , Abdallah Darkawi, Ecole Nationale des Sciences Appliquées, Marrakech.
Reduced Flux Observer for PMSM Sensorless Drive.

547ECS1 C

Arkan Kh. Al-Taie, Muna S. Kassim, University of Technology, Iraq.
Analysis of Flow Through the Combustion Chamber of a Liquid Propellant Engine.

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1345ECS C

Bander A. Allaf, Amin A. El-Khatib, Saudi Electricity Company, KSA.
Applications of Dynamic System Monitoring in Power System Analysis.

1803ECS C

Leila Boucerredj, Nasr Eddine Debbache, University Badji-Mokhtar, Algeria.
Qualitative Safety Evaluation of Mechatronic Systems Using DTPN And Fault Trees

547ECS1 C

Arkan Kh. Al-Taie, Saba Y. Ahmed, University of Technology, Iraq.
Analysis of Flow Through a Gas Turbine Combustion Chamber.

1133ECS1 C

Driss Yousfi, Mohamed El Kard, Abdelouadoud Halefadi, Ecole Nationale des Sciences Appliquées, Marrakech, Morocco.
Sensorless Control of Pm Synchronous Motor.

1134ECS C

Diary Rawoof Sulaiman, Salahaddin University, Iraq.
DVS Based: Power and Energy Reduction in Microprocessors.

547ECS2 C

Arkan K. Al-Taie, Abbas Abdul-Husseai, University of Technology, Iraq.
Predication of Stall Phenomenon in an Axial Compressor Single Stage.

16:00 16:30 Coffee Break

16:30 18:30 Session III : “Advanced Controls” and “Sensors and Instrumentations”

Chairpersons:

Majd Batarseh, University of Central Florida, USA.

Olfa Kanoun, Technische Universität Chemnitz, Germany.

Future Prospects For Smart Sensor Systems.

678ECS C

Khaled Boumchedda, University of Boumerdes, Algeria.

Study of Vibratory Behaviour of Thin Porous Pzt Piezoelectric Ceramics by Impulse Method.

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1802ECS C

Kezai T, André N., Gerard P., Drochmans P., Druart S., Moreno-Hagelsieb L., Flandre D., Raskin J.-P., Université catholique de Louvain, Electrical Department, Belgium.

Wireless Sensor Network For Breathing Activity Monitoring.

309ECS C

Loay Tawfik Al-Bahrani, Diyali University, Iraq.

Design Model of Automatic Generation Control (Agc) to Improve The Frequency Deviation Response In The Multi Area System.

2056ECS1 C

M. Ouriagli, S. Mahieddine-Mahmoud, L. Chrifi-Alaoui, M. Zerikat, Algeria.

A New Robust Sliding Mode Control For Induction.

2056ECS2 C

M. Ouriagli, S. Mahieddine-Mahmoud, L. Chrifi-Alaoui, M. Zerikat, Algeria.

Design and Implementation For Robust Control of Uncertain Non Linear System With Second Order Sliding Mode Control.

592ECS C

Marwa Samih Mahmoud Soudi, Jeal Alamal NGO, Egypt.

A New Fiber Optical Gyroscope Based On Mzi (Mach-Zehender Inetrfrometer).

574ECS C

Allan Tubaileh, Birzeit University, Palestine.

Design and Virtual Testing of Robotic Cells.

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Day Two: Monday, 27 October 2008

07:00 08:00 Registration

08:00 10:00 Workshop/Tutorial Session (Part I):

Introduction of session:

Dr. Wail Gueaieb, University of Waterloo, Canada.

1320ECS C

Ehab F. El-Saadany, University of Waterloo, Canada.

Distributed Generation As An Electricity Option; Advantages and Requirements.

10:00 10:30 Coffee Break

10:30 12:30 Workshop/Tutorial Session (Part II):

1320ECS C

Dr. Ehab F. El-Saadany, University of Waterloo, Canada.

Distributed Generation As An Electricity Option; Advantages and Requirements.

General Discussion

12:30 13:30 Lunch Break

13:00 14:00 Poster Session II; *See Appendix*

14:00 16:00 Session IV : Power Electronics

Chairpersons:

Bander A. Allaf, Saudi Electricity Company, KSA.

1989 ECS C

Hussam Al-Atrash, Issa Batarseh, University of Central Florida, USA.

Power Conversion Technology Trends in Distributed Photovoltaic Generation Systems.

1168ECS C

Majd Batarseh, Issa Batarseh, USA.

Overview of Digital Control For Power Electronics Application.

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1131ECS C

Karthik Sarpatwari, Lucas Passmore, Samia A. Suliman, Osama O. Awadelkarim, Suzanne E. Mohny, Pennsylvania State University, USA.
Schottky Contacts on Sic: The Effects of Barrier Inhomogeneity on the Current-Voltage Characteristics.

109 ECS C

Ali A. Nasr, Abdulgader Y. Bennaser, Abdulgader O. Grengo, Libya.
Size Optimization and Cost Analysis of A Pv and A Wind- Turbine Powered A/C Units.

Panel Discussion

Closing Session: Co-Chairs: Dr. Issa Batarseh and Dr. Wail Gueaieb.

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Appendix

Poster Session I:

1672ECS C

Samil Tedjini, France.

Rfid, An Old Technology With A Brilliant Future.

683ECS C

Rahiche. A, Bouzouia. B, Algeria.

Teleoperation System of The Mobile Manipulator Robot Robuter_Ulm.

1127ECS C

Y. Meslem, M. Becheikh., Université Ibn Khaldoun Tiaret, Algeria.

Study of Vacuum Post Arc Current Coupled With External Circuit.

1129ECS C

Brahmi, A. Abounada, M. Ramzi, Sultan Moulay Slimane University, Morocco.

Design and Realisation of A Peak Current Mode Control Dc-Dc Boost Converter Based Uc3843 Pwm Controller.

1136ECS C

Haddouche Ali, Dib Djalel, A. Benretem, Universite Badji Mokhtar Annaba, Algeria.

Three Phase Line Model With Transient Corona Effect.

1535ECS C

Benretem A, Merzoug H, Haddouche.A, Universite Badji Mokhtar Annaba, Algeria.

Modeling of Station of Pumping by Variable Speed.

Poster Session II:

1130ECS C

S. Abdel-Sattar, Taif University, KSA.

Our Use of Electric Power Could Be Injurious To Our Helth

1534ECS C

Marouf Pirouti, Dlauer Raouf Marouf, Salahaddin University, Iraq.

Neural Network-Based Short Term Generator Economic Load Forecasting.

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1128ECS C

K. Taghouti, A. Ahaitouf, A. Meresse, G. Duchamp, F. Errahimi., Université Sidi Mohamed Ben Abdellah, Morocco.

Prediction of Conducted and Radiated Emissions.

540ECS C

Dr. Amjid G., Dr. Majid Ahmed Olewi, Technology University, Iraq.

Intelligent Controller of Dc Servo Actuated Swash Pump For Speed-Contrl Hydraulic System.

680ECS C

Amjad J. Humaidi, Ayad Q. Hussein, Technology University, Iraq.

State Estimation of Two-Phase Permanent Magnet Synchronous Motor.

682ECS C

Muhsin Altamimi, Technology University, Iraq.

Design & Implementation of Plc Control and Electro-Hydraulic System For A Punching Machine.