

Program Overview

	Thursday	Friday	Saturday		
08h:00	Registration			Social Event	
08h:15					
08h:30	Opening Ceremony	S-I (2)	S-II		S-III
08h:45					
09h:00	Break				
09h:15	Keynote 1	Break / Poster Session 2			
09h:30					
09h:45	S-I (1)	S-III	lecture 1		Keynote 4
10h:00					
10h:15	S-IV	S-II	lecture 4		
10h:30					
10h:45	S-VI				
11h:00					
11h:15	Lunch break				
11h:30					
11h:45	Lunch break				
12h:00					
12h:15	Keynote 2				
12h:30					
12h:45	S-I (1)		S-III		lecture 2
13h:00					
13h:15	S-I (3)		S-V	Lecture 5	
13h:30					
13h:45	Break / Poster Session 1				
14h:00					
14h:15	Keynote 3				
14h:30					
14h:45	S-I (1)		S-II	lecture 3	
15h:00					
15h:15	S-I (2)		S-IV	S-VI	
15h:30					
15h:45	Closing Ceremony				
16h:00					
16h:15	Keynote 5				
16h:30					
16h:45	S-I (1)		S-II	lecture 3	
17h:00					
17h:15	S-I (2)		S-IV	S-VI	
17h:30					
17h:45	Closing Ceremony				
18h:00					
18h:15	Closing Ceremony				

S-I	Solar Energy
S-II	Wind Energy
S-III	Eco-Design
	Energy efficiency
S-IV	Energy harvesting
	Distribution Power System
	Transportation generation
	Electricity storage
S-V	Power electronics and motor drives for renewable energy
	Thermal and Recycling
	Green technology
S-VI	Biomass
	Renewable energy for IT equipments
	Smart Grid

Keynote Talks

Keynote 1 Thursday 09h30-10h15	Assuring Adequate Primary Frequency Response in Power Systems with High Levels of Wind Power (Prof. Nicholas W Miller, General Electric Company, USA)
Keynote 2 Thursday 13h15-14h00	Research trends and future direction of chalcogenide thin-film solar cells (Dr. Takashi Minemoto, Ritsumeikan University, Japan)
Keynote 3 Thursday 16h00-16h45	Research opportunity in Metal Chalcogenide Films and nanostructure for PV (Prof. Ahmed Ennaoui, Helmholtz-Zentrum Berlin, Germany)
Keynote 4 Friday 10h00-10h45	Bio-mimetics of Energy Systems: What Can We Learn for Technology? (Prof. Helmut Tributsch, Carinthian University for Applied Sciences, Austria)
Keynote 5 Thursday 16h00-16h45	The Use of Power Electronics in Harvesting Solar Energy (Prof. Nasrudin Abd Rahim, University of Malaya, Kuala Lumpur, Malaysia)

Lectures for PhD students

Lecture 1 Thursday 09h30-10h15	Continuous improvement in sustainability through energy efficiency. (Prof. Bhaskaran Gopalakrishnan, West Virginia University, IMSE, Morgantown , USA)
Lecture 2 Thursday 09h30-10h15	Operational economics of systems with high penetration of wind and solar. (Prof. Nicholas W Miller, General Electric Company, USA)
Lecture 3 Thursday 09h30-10h15	Bio-mimetics of Energy Systems: an Overview. (Prof. Helmut Tributsch, Carinthian University for Applied Sciences, Austria)
Lecture 4 Friday 09h30-10h15	Solar Photovoltaic Technology from atoms to arrays. (Prof. Ahmed Ennaoui, Helmholtz-Zentrum Berlin, Germany)
Lecture 5 Friday 09h30-10h15	Device design and operation mechanism of chalcogenide thin film solar cells. (Dr. Takashi Minemoto, Ritsumeikan University, Japan)

Presentation guidelines :

- All presentations should be in English.
- The time provided for oral presentations is 15 min (10 min for the presentation and 5 min for the discussion).
- The speakers should give their slides to the session chair before the beginning of each session.
- For poster presentations, the posters should be displayed one hour before the beginning of the poster session and any explanation required should be provided to session chairs and visitors.

S-I (1)	Solar Energy (PV) Session Chairs : <i>Ahmed Ennaoui</i> , Helmholtz-Zentrum Berlin, Germany <i>Ikeda Shigeru</i> , Osaka University, Research Center for Solar Energy Chemistry – Japan
Thursday 10h15-12h:00 and 14h00-15:30 and 16h45-18h15	Dust Effects on the Performance of PV Street Light in Baghdad City <i>Abd Salam Al-Ammri, Areej Ghazi, Falah Mustafa</i> Wet processes for the preparation of CZTS thin films <i>L. Alahyane, H. Kirou, E. EL Hamri, A. Elfanaoui, E. Ihalane, K. Bouabid, L. Laanab, A. Ihlal</i> Structural and optical properties of the nanocrystalline ZnO films prepared by successive ionic layer adsorption and reaction <i>E. EL Hamri, A. Elfanaoui, L. Boulkadat, E. Ihalane, L. Alahyane, H. Kirou, K. Bouabid, A. Ihlal, L. Laanab</i> Parametric identification by minimizing the squared residuals (Application to a photovoltaic cell) <i>Benyounes OUKARFI, Fayrouz DKHICHI, Abderrahim FAKKAR</i> Role of electrode buffer layers in organic solar cells <i>Takeaki Sakurai, Shenghao Wang, Susumu Toyoshima, Katsuhiro Akimoto</i> Estimating the photovoltaic MPPT by artificial neural network <i>Sadik Farhat, Rachid Alaoui, Abdelilah Kahaji, Lahoussine Bouhouch</i> Electrochemical Synthesis of $\text{Cu}_2\text{ZnSnS}_4$ and $\text{Cu}_2\text{ZnSnSe}_4$ Thin Films for Solar Cells <i>Shigeru Ikeda, Wilman Septina, Yixin Lin, Akio Kyoraiseki, Takashi Harada, Michio Matsumura</i> Analysis of $\text{Cd}_{1-x}\text{Zn}_x\text{S}$ window effect on CdTe solar cells <i>Abderrahmane Belghachi, Naima Limam</i> Design and realization of an emulator of photovoltaic generator <i>Mustapha Elyaqouti, Rachid Alaoui, Ahmed Ihlal, Lahoussine Bouhouch</i> Simulation, optimization and performance analysis of an analog, easy to implement, perturb and observe MPPT technique to be used in a 1.5 KWp photovoltaic system <i>KHELIF Messaoud, M'RAOUI Abdelhamid, MALEK Ali</i> Elaboration and characterizations of In_2S_3 thin films by Spray Pyrolysis with $[\text{S}]/[\text{In}] = 3$ ratio <i>Thierno Sall, Bernabe Mari, Mollar Miquel, Larbi Laanab, Bouchaib Hartiti, Mounir Fahoume</i> Calix[4]pyrrole; a potential dye for Dye Sensitised Solar Cells <i>Abdelaziz El Gamouz, Angela F Danil de Namor</i> Comparative study of H-bridge multilevel inverters dedicated to PV <i>Abdelaziz Fri, Rachid El Bachtiri, Abdelaziz El Ghzizal</i> A five-level diode clamped inverter for grid connection PV generation system <i>Kamal Himour, Kaci Ghedamsi, ElMadjid Berkouk</i> Structural and optical properties of CdS thin films prepared by SILAR method <i>Fouad Benmalek, Abderrahim Raidou, Thierno Sall, Larbi Laanab, Ahmed Qachaou, Mounir Fahoume</i> Effect of structural variations in $\text{CuIn}_{(1-x)}\text{Ga}_x\text{Se}_2$ based solar cells from numerical analysis <i>E. Ihalane, L. Atourki, L. Boulkaddat, E. El hamri, H. Kirou, L. Alahyane, A. Elfanaoui, A. Ihlal, K. Bouabid, X. Portier</i> Modelling of the photovoltaic system using the present state simulation models <i>Akila Gherbi Djoudi, Amar Hady Arab, Badia Amrouche</i> Improved performance in bilayer-CIGS solar cell <i>Manel Mezghache, Bouzid Hadyoudja</i> Simulation of $\text{In}_{0.52}\text{Ga}_{0.48}\text{N}$ solar cell using AMPS-1D <i>B. Dennai, H. Benslimane, A. Helmaoui</i> Optimization photovoltaic pumping system based BLDC using Fuzzy logic MPPT control <i>Ouada Mahdi, Meridjet Mohamed Salah, Talbi Nabil</i> Metastability versus irreversibility in a-Si:H degradation under illumination <i>El Mahdi El Mhamdi, Stefaan De Wolf, Bénédicte Demaurex, Jakub Holovsky and Christophe Ballif</i>

S-I (2)	Solar Energy - Case Study - Modelling
	Session Chairs : <i>Alan S. Weber</i> , Weill Cornell Medical College, Doha-Qatar
Friday 08h30-09h30 and 16h45-18h00	A mean hourly global radiation prediction in Moroccan sites <i>R. MEJDOUL, M. TAQI</i> Review of Sustainable and Renewable Energy Activities in the State of Qatar <i>Alan S. Weber</i> Tilt Angle Optimization for Maximum Solar Energy Collection - Case Study for Ifrane, Morocco <i>Driss Lahjouji, Hassane Darhmaoui</i> Feasibility Study of a Solar Power Tower in Algerian Sites <i>A. Aichouba, M. Merzouk, N. Said, N. Kasbadji Merzouk</i> Modeling the Variation of Optimum Tilt Angles for Flat-Plate Solar Collectors in Ifrane, Morocco <i>Houda Ennaceri, Khalid Loudiyi</i> A comparative study between sliding mode controller and P&O controller applied to MPPT <i>Afghoul Hamza, Chikouche Djamel, Krim Fateh, Beddar Antar</i> Automation of a solar adsorption refrigeration system <i>Abdellah El Fadar, Mohamed Becherif, Ali Haddi, Jacques Jay</i> Robust Control approach for Photovoltaic Conversion System <i>Menad DAHMANE, Jérôme BOSCHE, Ahmed EL-HAJJAJI</i> Wall shear stress in transient turbulent pipe flow <i>H. ZIDOUH, L. ELMAIMOUNI</i> Heat transfer enhancement with vortex generators in a solar low delta-T Stirling engine <i>Noureddine BOUTAMMACHTE, Ahmed ALMERS, bdelfatah BOUATEM</i>

S-I (3)	Solar Energy : - Tracking - Thermal
	Session Chairs : <i>Nasrudin Abd Rahim</i> , University of Malaya, Kuala Lumpur, Malaysia
Friday 14h00-15h45	A Closed Pneumatic-based Solar Tracking System <i>Mouad Jaafari, Izgh Hadachi, Meriem Elwarari , Sara Boualila, Yassine Salih-Alj</i> Fuzzy controller to extract the maximum power of a photovoltaic system <i>Mohamed Ajaamoum, Mustapha Kourchi, Rachid Alaoui, Lahoussine Bouhouc</i> Study and Comparison of Several Maximum Power Point Tracking Algorithms <i>Badia AMROUCHE, Akila DJOUDI</i> Command and algorithm of Maximum Power Point Tracking MPPT <i>Mohammed ELalami, Mohamed Habibi, Seddik Bri</i> The effects of light intensity and collector surface on the performance of a solar thermal collector <i>R. Ihaddadene, N. Ihaddadene, M. Bey</i> Temperature – Time Mathematical Practical Model of Melting Lead Metal in Graphite Crucible by Concentrator Solar Furnace <i>Falah Mustafa, Mohamed Saleh, Khalil Alwan, Hassen Isaa, Aied Ibrahim, Salah Subhe, Husam Sabeeh, Hatim Ali, Tariq Yaseen, Saad Abd Alhussein, Abass Hussein</i> Solar Cooling: Experiences and Lessons Learned with two Different Systems <i>Ahmed Hamza H. Ali</i> Prediction of daily solar energy by optimizing the model MLP neural networks <i>Abdelilah Kahaji, Rachid Alaoui, Sadik Farhat, Lahoussine Bouhouc</i>

S-II	Wind Energy
	Session Chairs : Ouadie Bennouna , ESIGELEC/IRSEEM, France Salma El Aïmani , FPO - Ibn Zohr University -Morocco Nachida Kasbadji Merzouk , EPST/CDER - Tipaza, Algeria Mohammed Ouassaid , ENSA- Safi, Cadi Ayyad University-Morocco
Thursday 16h45-18h15	State-Model Based Time-Domain Diagnosis of Internal Faults for Permanent Magnet Synchronous Machine -Wind Application <i>Abdelhalim Lalami, Abderrazak El-Ouafi, René Wamkeue</i> Fuzzy Controller for Self-Excited Induction Generator used in Wind energy conversion <i>Ahmed ABBOU, Mohamed BARARA, Mohamed AKHERRAZ, Hassan MAHMOUDI, Mohamed MOUTCHOU</i> Effect of diffuser configuration on the flow field pattern inside wind concentrator <i>Ashraf Amer, Ahmed Hamza H. Ali, Yehia ElMahgary, Shinichi Ookawara</i> Maximum Power Point Tracking of a Wind Power System Based on The PMSG Using Sliding Mode Direct Torque Control <i>Youssef ERRAMI, Mohammed OUASSAID, Mohamed MAAROUFI</i>
Friday 08h30-09h30 and 10h45-12h15	Towards a knowledge base for a wind electric pumping system design <i>Abdelaziz ARBAOUI, Mohamed Allae BENNINI, Mohamed ASBIK</i> A MPPT Vector Control of Electric Network Connected Wind Energy Conversion System Employing PM Synchronous Generator <i>Youssef ERRAMI, Mohammed OUASSAID, Mohamed MAAROUFI</i> Effect of Obstacles on the Wind Speeds Spatial Interpolation <i>Ahmed Hadji, Nachida Kasbadji Merzouk and Mustapha Merzouk</i> Detection and Isolation of Sensor Faults of Wind Turbines using Sliding Mode Observers <i>Jian Zhang, Ouadie Bennouna, Akshya Swain, Sing Kiong Nguang</i> Numerical characterization of pressure drop through a low speed wind tunnel: Some design aspects <i>IvanTorranoa, Manex Martinez-Agirrea, Mustafa Tutara</i> Development of real time Wind Turbine Emulator based on DC Motor controlled by hysteresis regulator <i>KOUADRIA Selman, BELFEDHAL Seifeddine, BERKOUK El Madjid, MESLEM Youcef</i> Improvement of Transient Stability of Algerian Power System Network with Wind Farm <i>Naimi Djemai, Bouktir Tarek</i> Wind Powered Water Desalination <i>Youssef Dahioui, Khalid Loudiyi</i> The Effect of Wind-Based Generation Inclusion on Economic Load Dispatch Problem <i>Farid Benhamida, Yacine Salhi, Slimane Souag, Abdelber Bendaoud, Houari Sayah</i> Optimal sizing of an autonomous hybrid system <i>Fatima Zahra Kadda, Smail Zouggar, Mohammed Larbi Elhafyani</i> Boost Converter analysis to optimise variable speed PMSG Wind Generation System <i>Abdelouahed Mesbahi, Abdellah Saad, Mohamed Khafallah, Omar Bouattane, Abdelhadi Raihani</i> Faults diagnosis of wind enrgy conversion chain based on doubly fed induction generator by principal components analysis method <i>Jacques Fanjason Ramahaleomiarantsoa, Nicolas Héraud, Eric Jean Roy Sambatra, Jean Marie Razafimahenina</i>

S-III	- Eco-Design - Energy efficiency	
	Session Chairs: Lee Seung Joo , Dongguk University, Seoul, Korea Nicholas W Miller , General Electric Company, USA Rachid El Bachtiri , EST, Fez University, Morocco Brahim Benhamou , Faculty of Sciences Semlalia, Marrakech, Morocco	
Thursday	Comparing Socioeconomic & Environmental Impacts of Building 2GW PV Power Plant (PP) in Both Sides of the Mediterranean <i>Ahmed M.A.M. Serag Eldin, Yehia El-Mahgary, Ahmed Hamza H. Ali, Ahmed Khairy</i> A Technical Reading of the 13-09 Law on Renewable energy in Morocco <i>Rachid El Bachtiri, Ernest Matagne</i>	
10h45-12h00	Introduction of Concentrating Solar Power Based on the use of Parabolic Trough Mirrors in the Evaluation of the Moroccan Power Grid Adequacy <i>Mohamed Oukili, Smail Zouggar, Mohammed Seddik, Fatima Zahra Kadda, Mohamed El hafyani, Taoufik Ouchbel, François Vallée</i>	
and		
14h00-15h30	An intelligent approach for evaluating losses power on energy production of large-scale photovoltaic plants <i>Adel Mellit, Alessandro Massi Pavan</i> Increase the photovoltaic conversion efficiency using Neuro-fuzzy control applied to MPPT <i>Afghoul Hamza, Krim Fateh, Chikouche Djamel</i>	
Friday	Analysis by Differential Scanning Calorimetry of concrete modified with microencapsulated phase change materials <i>Anissa Eddhahak-Ouni, Sarra Drissi, Johan Colin, Jamel Néji</i> Electronic and optical properties of ZnO quantum well structures <i>Hee Chang Jeon, Tae Won Kang, and Seung Joo Lee</i>	
08h30-09h30	Energy requirement, fuel consumption and environmental impact of heating residential building Case study of Fez <i>Rachida Idchabani, Mohamed Garoum, Abou-bakr CHERKI, Abdelhamid KHABBAZI</i> Energy Efficiency In Continuous Galvanizing Lines <i>Subhasis Bhadra, Bhaskaran Gopalakrishnan, Subodh Chaudhari</i> Valorization of thermal insulation properties, energy storage capacity and lightness of a new ecological building material based on granular cork <i>Abou-bakr Cherki, Abdelhamid Khabbazi, Rachida IDCHABANI, Mohamed GAROUM</i> Comparative Study of Internal and External Thermal Insulations Based on PET Waste Bottles <i>Youssef Afkir, Hassane Darhmaoui, Khalid Loudiyi, Abdessadek Sesbou, Said Dahous</i> Energy consumption optimization in real time applications for WSN using IR-UWB technology <i>Anouar Darif, Driss Aboutajdine, Rachid Saadane</i> Numerical simulation of a parabolic trough collector in a humid ambience <i>N.Basbous, N.Belouaggadia, M.Taqi</i> Sensitivity Factor for Power System Security Analysis Using LabVIEW <i>Slimane Souag, Farid Benhamida, Yacine Salhi, Abdelber Bendaoud, Fatima Zohra Gherbi</i> Numerical Simulation of Drag Reduction over Rotationally Oscillating Cylinder <i>Liu Su, Isam Janajreh</i> Energy efficiency in buildings: thermophysical characterization of building materials <i>Mustapha Boumhaout, Lahcen Boukhattem, Fatima Ait Nouh, Hassan Hamdi, Brahim Benhamou</i> TVAC based PSO for Solving Economic and Environmental Dispatch considering Security constraint <i>Salhi Ahmed, Naimi Djemai, Bouktir Tarek</i> RafriBAT: a Project to Introduce Energy Efficiency in Buildings in Marrakech Area by means of Passive and Low Exergy Air-Conditioning Systems <i>Brahim BENHAMOU, Hassan HAMDI, Abderrahim BRAKEZ, Amin BENNOUNA</i> Reference Current Computation for Three-Level Shunt Active Filter Under Distorted and Unbalanced Conditions <i>Ahmed Ouari, Nadhir Mesbahi and Amar Omeiri</i> Experimental Study of Building Envelope Insulation Performance <i>F. Mokhtari, K. Imessad, R. Kharchi, L.Loukarfi, L. Deradji</i>	

S-IV	- Energy harvesting - Distribution Power System - Transportation generation - Electricity storage - Power electronics and motor drives for renewable energy
	Session Chairs: Adelino Jorge Lopes Ferreira , University of Coimbra, Portugal Driss Yousfi , ENSA, Marrakech- Morocco
Friday 10h45-11h30 and 16h45-18h00	A New Pavement Energy Harvest System <i>Francisco Duarte, Filipe Casimiro, Diogo Correia, Rui Mendes, Adelino Ferreira</i> Secondary energy sources recovery with a new type of the multistage microturbine <i>Kiril Levkov</i> Oriented Energy-Aware Scheme used in Heterogeneous Wireless Sensor Networks <i>Mostafa SAADI, Moulay Lahcen HASNAOUI, Abderrahim BENI HSSANE, Mohamed LAGHDIR</i> Optimal energy management of an autonomous hybrid system by using the linear programming method <i>Fatima Zahra Kadda, Smail Zouggar, Mohamed Larbi Elhafyani</i> Cascaded DC/DC Converters as a Battery Charger and MPPT for PV System <i>Ahmad H. El Khateb, Nasrudin Abd.Rahim, Jeyraj Selvaraj</i> Storage and restoring the electricity of renewable energies by coupling with natural gas grid <i>Youssef Redissi, Hanaâ Er-rbib, Chakib Bouallou</i> PMSM Sensorless Control using Back-EMF Based Position and Speed Estimation Method <i>Youness Aite driss, Driss Yousfi</i> Simultaneous Estimation of Rotor Speed and Rotor Resistance in Sensorless IFOC of an Induction Motor Using Robust MRAS <i>Dj. Cherifi, Y. Miloud, M. Atig, A. Tahri</i>

S-V	- Thermal and Recycling - Green technology - Biomass
	Session Chairs: Isam Janajreh , Masdar Institute of Science and Technology – Emirates Zahira Yaakob , University of Kebangsaan-Malaysia
Friday 14h00-15h45	Recycling of Cross-link Polyethylene: Mechanical & Chemical Pathways <i>Mohammed Al Shrah, Isam Janajreh</i> Convective Boiling in Minichannels <i>Boudouh Mounir, Louahlia-Gualous Hasna, Si Ameur Mohamed</i> Single Step Production of Biodiesel from Used Cooking Oil <i>Surya unni K, Zahira Yaakob, Manoj Pudukudy, Masita Mohammed, Binitha N Narayanan</i> Three-dimensional numerical study of SOFC temperature field: Polarization heat source effect <i>Slimane Saighi, Zitouni Bariza</i> Low Energy Direct Contact Membrane Distillation: Towards Optimal Flow Configuration <i>Mohammad Awad, Isam Janajreh, Hassan Fath</i> Bioethanol Production Process using the Non-conventional Yeast Candida tropicalis <i>Latifa Jamai, Mohamed Ettayebi</i> Numerical simulation of Gasification: Effect of injection velocity on the feedstock conversion and syngas composition <i>Syed Shabbar Raza, Isam Janajreh</i> Alternative Technologies for Controlling CO2 Emissions and Energy Costs Minimization in Manufacturing Processes <i>Ilham Kissani</i> Sulphuric acid modified biomass: a novel acid catalyst for effective esterification of free fatty acids for biodiesel production <i>Sathya Selva Bala Vasanthakumar, Isam Janajreh</i> GASIFICATION OF TIRE CRUMBS INSIDE A DROP TUBE REACTOR: SEEKING OPTIMAL CONVERSION CONDITIONS <i>Idowu Adeyemi, Isam Janajreh</i>

S-VI	- Renewable energy for IT equipments - Smart Grid
	Session Chairs: Chuzo Ninagawa , Gifu University, Japan Mohamed Bakhouya , Aalto University, Finland
Friday 11h30-12h15 and 16h45-18h00	Data Transmission of IEEE1888 Communication for Wide-area Real-time Smart Grid Applications <i>Chuzo Ninagawa, Hiroki Yoshida, Seiji Kondo, Hiroyuki Otake</i> Design, realization and characterization of a photovoltaic system equipped with digital command control and acquisition <i>Mustapha Melhaoui, Rajae Gaamouche, Elhadi Baghaz, Kamal Hirech, Faysal Yaden, Khalil Kassmi</i> Screening phenomenon and hopping in two dimensional GaAs holes system <i>S. Dlimi, A. El kaaouachi, L. Limouny, A. Narjis, M. Errai, E. Daoudi, A. Sybous, G.Biskupski</i> Circular Polarized Square Patch Antenna Array for Wireless Power Transmission <i>M.A. Sennouni, J. Zbitou, A. Tribak, A. Benaissa, M. Latrac</i> Performances Analysis of Grid connected PV system in the perspective of use in a smart house in Algeria <i>Adel Ghouari, Chaâbane Hamouda, Aziz Chaghi</i> Homeostatic control in grid-connected microgeneration power systems: A means to adapt to changing scenarios while preserving energy sustainability <i>Fernando Yanine, Felisa M. Córdova</i> Towards an Optimal Assignment and Scheduling for Charging Electric Vehicles <i>Azizbek Ruzmetov, Ahmed Nait-Sidi-Moh, Mohamed Bakhouya, Jaafar Gaber, Maxime Wack</i> Demand side management algorithms and modeling in smart grids A customer's behavior based study <i>El Hassan ET-TOLBA, Mohammed OUASSAID, Mohamed MAAROUFI</i> Experimental Study and Design of Smart Energy Meter for the Smart Grid <i>Anmar Arif, Muhannad Al-Hussain, Nawaf Al-Mutairi, Essam A. Al-Ammar</i>

Posters Session I

Session Chairs:

Thursday

15h30-16h00

Detailed analysis of surface recombination in crystalline silicon solar cells

Abderrahmane BELGHACHI

Application of Fuzzy Robust Controller for Photovoltaic Systems

Noureddine Ould-Cherchali, Abdelkader Morsli, Mohamed-Seghir Boucherit, Linda Barazane

Study of the effect of the partial shadow on a photovoltaic module

Mohamed DHARIF, Abdelhaquim EL MOUSSAOUI, Abdellah AIT OUHMAN

Investigation on the use of solar thermal energy in the agro food industry in Algeria

Badreddine Boutaghriout, Amina Bouakaz, Chaâbane Hamouda, Hacene Smadi, Ali Malek

Study of the statistical correlation of the global radiation

Case study of Tetuan in northern Morocco

Abdelbari Redouane, Driss Taoukil, Abdelmajid El Bouardi, Taïb Ajzoul, Hassan Ezbakhe

A Very Low Cost System Tracking Solar Irradiance

Abdelaziz El Ghizal, Rachid El Bachtiri

Analysis of Experimental Test Results for the Solar Water Heater of UDES

A. Arbane, R. Sellami, M. Merzouk, N. Kasbadji Merzouk

Implementation of Moroccan map solar cooling based on the dynamic study by a solar adsorption refrigeration machine working with activated carbonammonia pair using a sensor plane

Hanae El Kalkha, Abdelaziz Mimet

Fuzzy modeling magnetizing curve of a self excited induction generator and effect of mutual inductance

Mohamed Barara, Mohamed Akherraz, Ahmed Abbou Mohamed moutchou, Mohamed Elhafyani

Double-fed Asynchronous Wind Power Generator by Fuzzy Logic

S. Bellarbi, N. Kasbadji Merzouk

Output Power Control of a Wind Energy Conversion System Based on a Doubly Fed Induction Generator

Kaima Boulâam, Akkila Boukhelifa

A Coordinated Control For Smoothing Output Power Of a DFIG based Wind Turbine

Tariq RIOUCH, Rachid EL-BACHTIRI

On the study of an optimal and robust control of the inverted pendulum wind turbine

Ailane Abdellah, Aitelmahjoub Abdelhafid, Rachik Mostafa

Transposition of wind measurements to a standard site of open area roughness at a height of 10m above ground level

Fathi Ben Amar, Mustapha Elamouri, Rachid Dhifaoui

Design and construction of a synchronous wind turbine

M. LAHDA, A. MOURADI, A. EL HIBAOUI, A. MIMET

Modelling, design and control of wind diesel hybrid power system using bond graph

A. Badoud, M. Khemliche, S. Bacha, B. Raison

Modeling and performance analysis of multilevel inverter for single-phase grid connected photovoltaic modules

A. Badoud, M. Khemliche, S. Bacha, B. Raison

Loads evaluation of horizontal axis wind turbine operating in yaw conditions using BEM method

Abdelfattah Bouatem, Ahmed Al Mers, Boutammachte Nour Eddine

Performance analysis of solar adsorption cooling machine using fined tubular reactor

A. Al Mers, N. Boutammachte, A. Bouatem

Solar vacuum membrane distillation for seawater desalination

Slimane Gabsi and Ahmed Chehbouni

Synthesis and characterization of copper indium diselenide thin films for solar energy applications

Souheyla Gaguï, Bouzid Hadjoudja, Baghdadadi Chouial, Houda Felfli, Allaoua Chibani

Posters Session II

Session Chairs:

Friday 09h30-10h00	Phenomenon of thermal stratification in pipes: Effect of flow rate <i>Halitim Siham Houria, Abdelhamid Chaouki, Zitouni Bariza</i> Investigation of the aerodynamics flow and turbulence characteristics of burning process of the solid fuel <i>A.S. Askarova, A. Bekmukhamet, S.A. Bolegenova, Yu. V. Maximov, M.T. Beketayeva, Sh. S. Ospanova</i> Availability of natural light in dense urban areas Investigation on the performance of daylighting wells <i>TIZOUIAR Ouahiba, BENSALAM Rafik</i> Thermal Auditing of Buildings Essential Step towards Designing Energy Efficient Houses <i>Mohamed El Mehdi El Hjouji, Asmae Khaldoun</i> Study of a STATCOM used for unbalanced current compensation caused by a high speed railway (HSR) sub-station <i>Anas Benslimane, Jamal Bouchnaif, Mohamed Azizi, Khalid Grari</i> Solar Electricity Storage in Lead Acid Batteries <i>Achaibou Nadia, Harikenchikh Ali</i> Thermal field of a planar SOFC fed by methane: Steam reforming and water gas shift reaction effect <i>Hafsia ABDENEBI, Bariza ZITOUNI, Hocine BEN MOUSSA, Djamel HADDAD</i> Biohydrogen production by dark and photofermentation processes <i>Dahbia Akroum-Amrouche, Nadia Abdi, Hakim Lounici, Nabil Mameri</i> Aggregator based ICT architecture for Electric Vehicle Fleet Operators <i>Fayez Shakil Ahmed, Salah Laghrouche, Frédéric Lassabe</i> Optimized Control for switched reluctance motor <i>Khalid Grari, Jamal Bouchnaif, Mohamed Azizi, Anas Benslimane</i>
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