



Energy Trading/Exchange in a Neighborhood/Digitization AGENDA

Middle East University

AT-SGIRES: Advanced Teaching and training on Smart grid and Grid Integration of Renewable Energy Systems

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Review table

Version	Date of Submission	Quality check		Technical check	
		Reviewer	Date	Reviewer	Date
V01	26.05.2020	Adib Allahham	04.06.2020	Adib Allahham	04.06.2020
V02	13.07.2020	Adib Allahham	20.07.2020	Adib Allahham	20.07.2020







1.1 Workshop Description

This workshop focuses on the main topic entitled "Energy Trading/ Exchange in a Neighborhood/ Digitization". Further, the workshop will cover the following topics:

- PV Energy Forecasting which is used for Energy Trading
- Trading Energy in Smart Grid Neighborhoods
- Peer to Peer Distributed Energy Trading in Smart Grids & the Role of Hardware-In-the Loop for testing new Algorithms
- Modelling and simulation of multi-energy smart local energy systems: methods and applications
- Transforming the Grid: Artificial Intelligence, Renewables, Storage and Electrical Vehicles
- Why Renewable Energy? Potential and Future of Renewable Energy in Jordan

1.2 Learning Outcomes

At the end of the workshop, participants will be able to:

- Understanding the trading energy in smart grid neighborhoods.
- Knowing about the PV Energy Forecasting which is used for Energy Trading.
- Understanding how the multi-energy smart local energy systems have modelling and simulation.
- Understanding the role of Hardware-In the loop for testing new Algorithms and knowing how the energy trading is distributed in Smart Grids
- Knowing about transforming the grid: Artificial Intelligence, Renewables, Storage and Electrical Vehicles
- Knowing about Potential and Future of Renewable Energy in Jordan.

1.3 Target groups and basic background

The workshop is targeting industrial stakeholders such as engineers working in a company engaged in the energy sector. The participants should have a basic background in:

- Renewable engineering
- Power systems
- Smart grid
- Energy

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- Energy Trading
- Digitization

1.4 Keynote speakers

- 1. Dr. Adib Allahham (University of Newcastle)
- 2. Dr. Neal Wade (University of Newcastle)
- 3. Dr. George Georghiou (University of Cyprus)
- 4. Dr. Samer Rabih (Al-Baath University)
- 5. Dr. Iyad Muslih Alsartawi (Industry, Center and a Consultant in Renewable Energy)
- 6. Dr. Samer As'ad (Middle East University)
- 7. Dr Khaled Homsi (Consultant at Ministry of Electricity Syria)







1.5 Agenda of Energy Trading/Exchange in a Neighborhood/Digitization Workshop over zoom application

Day 1 14th September, 2020

Zoom Meeting ID: 849 8930 3974 Passcode: 107512

Location		Online Workshop via Zoom Application (11:00 AM – 2:00 PM Amman Time)			
Start Time	Stop Time	Duration (minutes)	Content		
11:00	11:30	30	Welcoming (Prof. Alaaldeen Al-Halhouli)		
11:30	12:00	30	PV Energy Forecasting which is used for Energy Trading (Dr. George Georghiou)		
12:00	12:30	30	Break		
12:30	1:00	30	Peer to Peer Distributed Energy Trading in Smart Grids & the Role of Hardware-In-the Loop for testing new Algorithms (Dr. Adib Allahham)		
1:00	1:30	30	Transforming the Grid: Artificial Intelligence, Renewables, Storage and Electrical Vehicles (Dr. Iyad Muslih Alsartawi)		
1:30	2:00	30	Complementary discussions and closure		







Day 2 21st September, 2020

Zoom Meeting ID: 889 1031 4800 Passcode: 375816

Location			Online Workshop via Zoom Application (11:00 AM – 2:00 PM Amman Time)
Start Time	Stop Time	Duration (Minutes)	Content
11:00	11:30	30	Trading Energy in Smart Grid Neighborhoods (Dr. Samer Rabih)
11:30	12:00	30	Why Renewable Energy? Potential and Future of Renewable Energy in Jordan (Dr. Samer As'ad)
12:00	12:30	30	Break
12:30	1:00	30	Modelling and simulation of multi-energy smart local energy systems: methods and applications (Dr. Neal Wade)
1:00	1:30	30	Regional Interconnected Syrian Power System (Dr Khaled Homsi)
1:30	2:00	30	Complementary discussions and closure

