

**2nd International Conference on
"Energy, Sustainability and Climate
Change"**

ESCC 2015

Conference Program

Crete, Greece, June 21-27, 2015

Conference Venue

The conference will take place at the modern facilities of the Orthodox Academy of Crete (OAC) which is located in Kolimvari Chania. OAC is just 34 minutes driving distance from the city of Chania and approximately 15 minutes from the tourist resorts of Platanias and Agia Marina. Every year many international scientific conferences are organized in OAC. We have also got a very competitive rate, especially for conference participants that will stay in the rooms of Orthodox Academy of Crete.

For more information please go to: <http://www.oac.gr/en>

The exact address of the venue is: "Orthodoxos Akadimia Kritis Crete, Greece".

GPS coordinates: 35.552663, 23.776649.

Chairmen of the Conference:

Panos Pardalos (University of Florida, USA)

Georgios K.D. Saharidis (University of Thessaly, Greece)

Narek Malkhasyan (University of Florida, USA)

Sessions

Session 1: Energy Market I	(Monday, 22 June, 11:15-13:15)
Session 2: Energy Market II	(Monday, 22 June, 14:30-16:30)
Session 3: Transport, Energy Efficiency & Supply Chain Management	(Tuesday, 23 June, 11:15-13:15)
Session 4: Energy Systems - Design & Investment	(Thursday, 25 June, 11:15-13:15)
Session 5: Energy & Sustainability I	(Friday, 26 June, 11:15-12:45)
Session 6: Energy & Sustainability II	(Friday, 26 June, 14:00-15:30)

Program Summary

Sunday, 21 June 2015

18:00 -19:00 Welcome - Registration

Monday, 22 June 2015

09:00-9:30 Registration

09:30-11:00 Invited Talk: A Novel Framework for Carbon Capture, Utilization, and Sequestration, CCUS

Professor Christodoulos Floudas

11:00-11:15 Coffee Break

11:15-13:15 Sessions 1

13:30 -14:30 Lunch & Coffee

14:30-16:30 Sessions 2

Tuesday, 23 June 2015

09:30-11:00 Plenary Talk: GreenRoute, a web based platform for green routing

Assistant Professor Georgios K.D. Saharidis

11:00-11:15 Coffee Break

11:15-13:15 Sessions 3

13:30 -14:30 Lunch & Coffee

Wednesday, 24 June 2015

09:00-15:30 Poster Session 1

Thursday, 25 June 2015

09:30-11:00 Invited Talk: Long-Term Power Generation Expansion Planning With Short-Term Demand Response: Designing Electricity Policies for the Clean Power Plan for the Ercot Power System

Professor Steffen Rebennack

11:00-11:15 Coffee Break

11:15-13:15 Sessions 4

13:30 -14:30 Lunch & Coffee

19:00 Cretan night

Friday, 26 June 2015

09:30-11:00 Plenary Talk: Optimization and Modeling in Energy Systems

Professor Panos Pardalos

11:00-11:15 Coffee Break

11:15-12:45 Sessions 5

13:00 -14:00 Lunch & Coffee

14:00-15:30 Sessions 6

Saturday, 26 June 2015

09:30-13:00 Poster Session 2

Sessions – Regular Presentations

Monday, 22 June 2015

Session 1: Energy Market I (11:15-13:15)

Chairman: P. Andrianesis

- (1) M. Barrosa, C. O. Ribeiro, A. Valle Salles & P. Araújo "Energy matrix optimization from a tail risk perspective".
- (2) L. I. Hagfors, D. Bunn, E. Kristoffersen, T. Staver & S. Westgaard "Modelling the UK Electricity Price Distributions using Quantile Regression".
- (3) A. Belenky "Two game models for decision support systems in energy and environment".
- (4) N.A. Diangelakis & E.N. Pistikopoulos "Simultaneous design optimisation and multi-parametric model predictive control of a domestic/residential CHP system under uncertainty".

Session 2: Energy Market II (14:30-16:30)

Chairman: A. Belenky

- (1) P. Andrianesis & G. Liberopoulos "Equilibrium analysis in markets with non-convex costs".
- (2) G. Atsalakis & D. Frantzis "Genetically evolved neural networks to forecast carbon emission's prices".
- (3) C. Papapostolou, E. Kondili, W. G. Früh, I. K. Kaldellis, N. Kalliskamis "Novel energy solutions for island communities".
- (4) V. Máša "Potential of gas microturbines for integration in commercial laundries".

Tuesday, 23 June 2015

Session 3: Transport, Energy Efficiency & Supply Chain Management I (11:15-13:15)

Chairman: G. Kozanidis

- (1) D. Pantazi, E. Skordilis, G.K.D. Saharidis, D. Pantelis & G. Liberopoulos "Local vs Global optimization".
- (2) D. Zisis, G. Ioannou & A. Burnetas "Coordination of business units under information asymmetry".
- (3) G. Kozanidis "Branch and price for covering logistic shipments in a supply chain distribution network".
- (4) I.D. Psychas, M. Marinaki, Y. Marinakis & A. Migdalas "Non-dominated Sorting Differential Evolution Algorithm for the Minimization of Route-based Fuel Consumption Multiobjective Vehicle Routing Problems".

Thursday, 25 June 2015

Session 4: Energy Systems - Design & Investment I (11:15-13:15)

Chairman: O. Pechak

- (1) M. Touš "Stochastic programming applied to the integration of a waste-to-energy plant into an existing combined heat and power producing system".
- (2) O. Mavroudis & G. Dounias "Green Solutions for energy savings adapted to the Greek market requirements case study: The general hospital of Chios Skilitsion".
- (3) O. Pechak, G. Mavrotas, H. Doukas & P. Xidonas "Building robust portfolios with equal consideration of environmental and financial data for investments evaluation".
- (4) S. Parkinson, K. Sedraoui, A. Almasoud & N. Djilali "Identifying a sustainable long-term infrastructure strategy for Saudi Arabia with a coupled electricity-water optimization model".

Friday, 26 June 2015

Session 5: Energy & Sustainability I (11:15-12:45)

Chairman: G. Saharidis

- (1) S. W. Wallace "Energy storage at end-user level".
- (2) E. Victorova & F. Aleskerov "Models of countries' interactions in the Arctic Region".
- (3) M. Karmellos "A model and software tool for the optimal selection of energy efficiency measures in buildings".

Session 6: Energy & Sustainability II (14:00-15 :30)

Chairman: S. W. Wallace

- (1) C. Kittas, K.P. Ferentinos, A. Elvanidi, T. Bartzanas & N. Katsoulas "Crop stress detection in greenhouses based on hyperspectral image analysis".
- (2) S. Pickl "Simulation and Optimization of Complex Energy Systems - Mastering Complex Infrastructures Networks".
- (3) I.P. Tatsiopoulos, K. Aravossis, Th.I. Psimouli & G. Chatzistelios "A Pay-As-You-Throw system for waste management in dense crowded cities".

Poster Session

Wednesday, 24 June 2015

Session 1: Transportation (09:00-15:30)

Saturday, 26 June 2015

Session 2: Fuel (09:30-13:00)

Emergency Telephone Numbers

Police	100
Medical Emergency	166
Fire	199
Dr. Saharidis	(+30)6977404429