

18th INTERNATIONAL CONFERENCE ON RENEWABLE ENERGIES AND POWER QUALITY (ICREPQ'20)

CALL FOR PAPERS

1, 2 and 3 of April, 2020

University of Granada
Granada - Spain



ORGANIZED BY:

- European Association for the Development of Renewable Energies, Environment and Power Quality (EA4EPQ)
- University of Granada
- University of Vigo



Universidad de Granada



UNIVERSIDADE
DE VIGO

PAPERS

All the papers presented in the conference will be included in the **USB Memory with ISBN**, in the EA4EPQ-database of the web site and the high quality research papers can be selected for the open access journal: *Renewable Energy and Power Quality Journal (RE&PQJ)* with the ISSN: 2172-038X, with DOI and indexed by **SCOPUS** or the *E&Q Journal (Energies and Quality Journal)* with the ISSN: 2659-8779 and DOI, or for the ICREPQ Books.

CONFERENCE LANGUAGE

The Conference language is English. All papers and presentations should be made in English.

OBJETIVES AND TOPICS

The intention of the organizers is to give an opportunity to academics, scientists, engineers, manufacturers and users from all over the world to come together in a pleasant location to discuss recent development in the areas of Renewable Energies and Power Quality.

1. RENEWABLE ENERGY:

Topics include, but are not limited to:

- Wind Energy, Small Hydro Energy, Solar Energy, Photovoltaic Energy, Ocean Energy, Geothermal, Biomass, Cogeneration,...
- Classical and special electrical generators: Theory, design, analysis, losses, efficiency, heating and cooling, vibration and noise, modelling and simulation, control strategies, protection systems, maintenance, mechanical behaviour, new methods of testing, parallel operation, transmission system, stability,...
- Power plants. Distributed generation. Co-generation. Hybrid Systems. Micro-grids. Smart grids. Original solutions,...
- Energy conversion, conservation and energy efficiency.
- Energy saving policy. Energy storage. Fuel cells. Batteries,...
- Energy and the environment. Ecological balance. Ecosystem,...
- Application of the renewable energy. Best practice projects.
- Energy markets: Operation, specificity, regulation,...
- Legislation in the area of renewable energies.
- Biomass combustion techniques. The energy use of agricultural and forest residues. Production and the energy exploitation of bio-gas. Environment. Social importance. Energy and Social Development. Life Cycle Assessment Approach,....
- Interconnection and transport problems.
- Planning and control of the power system take into account the renewable energy. Stability. Protection,...
- Economic analysis of the power system take into account the renewable energy.
- Electricity Market Structures. Regulation/des-regulation of the power market. Influence of the renewable energy.
- Models and simulation of the power systems. Models and estimation of loads. Software tools.
- Application of the communications, internet, artificial intelligence

for the renewable energy.

- Security assessment and risk analysis in renewable energy.
- Electric vehicles.
- The impact of the electric cars on the electric grid.
- Electrical Machines & Drives, Power electronics and Control strategies for renewable energy applications.
- Monitoring and Diagnostics of electrical machines & drives, Tools for Diagnostics, Test for Predictive Maintenance in Renewable,...
- Sensors and actuators for renewable energy applications.
- Renewable Energies Teaching and Learning.

2. POWER QUALITY:

Topics include, but are not limited to:

- Electromagnetic compatibility (EMC).
- Power Quality in Transport and Distribution. FACTS
- Economic Studies of the Power Quality.
- Low-frequency conducted disturbances: Voltage deviations, voltage fluctuations/flicker, voltage dips and short interruptions, harmonics and inter-harmonics, transient over-voltages, voltage unbalance (imbalance), temporary power-frequency variations.
- Sources, effects and mitigation methods of the disturbances.
- Measurements of the power quality in networks, industrial installations and Laboratories. Equipment, procedures and measurement methods. Standards.
- Modelling and simulation of the power quality. Software tools.
- Transmission of the disturbances.
- Filtering techniques.
- Power factor compensation. Capacitor switching techniques.
- Optimization techniques.
- Communication, internet and artificial intelligence.
- Permanent monitoring techniques and online diagnosis.
- Intelligent energy delivery systems. Uninterrupted power supplies.
- Expert systems applications.
- Devices, equipment and power systems. Control centres.
- Specific problems and studies cases.
- Power quality influence in deregulated markets.
- High frequency disturbances (radiated).
- Data security and electromagnetic pulses.
- Protection against natural and intentional EMI.

IMPORTANT DEADLINES:

- **Submissions due : October 30th, 2019**
 - **Notification of acceptance: December 5th, 2019.**
 - **Registration, full payment and final paper due: January 20, 2020**
- (*) Submit your provisional full paper of 4 to 6 double columns pages, in Word or Adobe Acrobat (.pdf), with the title of the paper, authors, your complete contact information and electronic address, five key words, interest of the work, objectives, main contributions and the four most important references at: icrepq@icrepq.com or donsion@icrepq.com, secretariat@icrepq.com Every paper will be evaluated (peer review) by the International Scientific Committee members.

LOCAL ORGANIZING COMMITTEE

Fernando Aznar Dols (Chairman)
Enrique Alameda Hernández
Daniel Gómez Lorente
Rafael Muñoz Beltrán
Antonio Manuel Peña García
Ovidio Rabaza Castillo



INTERNATIONAL SCIENTIFIC COMMITTEE

Abbas Fardoun (Arab Emirats)
Abdelkader, Sobhy (UK)
Ahmed, Noor E. Alam (Australia)
Albadi, Mohammed (Oman)
Alexandru, Catalin (Romania)
Amara, Yacine (France)
Andrada Gascón, P. (Spain)
Andras, Dan (Hungary)
Andrescu, G. D. (Romania)
Arcega Solsona, F. (Spain)
Arnaltes Gómez, S. (Spain)
Bargalló Perpiña, R. (Spain)
Belik, Milan (Czech Republic)
Betini, Roberto Cesar (Brazil)
Bitzer, Berthold (Germany)
Boudghene S., A. (Argeria)
Bracale, Antonio (Italy)
Brslica, Vit (Czech Republic)
Buja, Giuseppe (Italy)
Burgos Payan, Manuel (Spain)
Buzdugan, Mircea (Romania)
Camacho, José R. (Brazil)
Cano, José M. (Spain)
Carvalho, Paulo (Brazil)
Catalão, João (Portugal)
Chica Arrieta, L.E. (Colombia)
Chioncel, Cristian P. (Romania)
Dessouky, Yasser G. (Egypt)
Donsión, M.P. (Spain)
Duran, M. (Spain)
El Qarnia, Hamid (Morocco)
El-Sayed, Mohamed (Kuwait)
Errami, Youssef (Morocco)
Fathollahi Fard, Ali A. (Malaysia)
Fraile Mora, Jesús (Spain)
Friman, Hen (Israel)
Früh, Wolf-Gerrit (UK)
Funabashi, Toshihisa (Japan)
Gagliano, Antonio (Italy)
Gharehpetian, G.B. (Iran)
Ghita, Constantin (Romania)
Giurca, Ioan (Romania)
Güemes Alonso, J.A. (Spain)
Hartmann, Bálint (Hungary)
Ionnides, Maria G. (Greece)

Iwaszkiewicz, J. (Poland)
Janik, Przemyslaw (Poland)
Jimoh, Adisa (South Africa)
Kádár Péter (Hungary)
Kiss, Péter (Hungary)
Kouzou Abdellah (Argeria)
Lakhoua, Mohamed N. (Tunisia)
Llombart Estopiñan, A. (Spain)
Machado e Moura, A. (Portugal)
Mahdi, Ali Jafer (Iraq)
Malfatti, Célia (Brazil)
Mañana Canteli, M. (Spain)
Martinez, André (France)
Melicio, Rui (Portugal)
Meyer, Jan (Germany)
Narsimhulu, Sanke (India)
Nichita, Cristian (France)
Nocera, Francesco (Italy)
Oraee, Hashem (Iran)
Ozdemir, Engin (Turkey)
Petkovska, L. (Macedonia)
Pourmovahed, Ahmad (USA)
Predescu, Mihai (Romania)
Quinto Diez, Pedro (Mexico)
Raisz David (Hungary)
Rubio Clemente, A. (Colombia)
Salaoro, Iulia (UK)
Salay Naderi, M. (Australia)
San Martin, Jose Ignacio (Spain)
Schlemmer, Erwin (Austria)
Souto, José A. (Spain)
Stenzel, Jürgen (Germany)
Stumberger, Gorazd (Slovenia)
Tahir Çetin Akinci (Turkey)
Tang, Xinzi (China)
Tlustý, Josef (Czech Republic)
Tudorache, Tiberiu (Romania)
Turschner, Dirk (Germany)
Ubong, Etim (USA)
Valouch, V. (Czech Republic)
Vergura, Silvano (Italy)
Vitale, Gianpaolo (Italy)
Vokony, István (Hungary)
Zobaa Ahmed (UK)

STEERING COMMITTEE

M. Pérez Donsión (Chairman)
José Antonio Aguado
Ana Álvarez García
Ramón Bargalló Perpiña
Manuel Burgos Payan
Francisco Cavallé Sesé
Debora Coll-Mayor
Antonio Espín Estrella

Angeles López Agüera
Mario Mañana Canteli
Miguel Martínez Melgarejo
Luis Rouco Rodríguez
Javier Mazón Sain-Maza
Mariano Sanz-Badía
María Jesús Santos Sánchez
Inmaculada Zamora Belver

STRUCTURE. The ICREPQ'20 will be structured in:

- **Plenary Sessions** (keynotes): in one room for all the participants.
- **Oral Sessions**: Renewable Energy and Power Quality topics
- **Round Table**: in one room for all the participants.
- **Posters Sessions**: In 45-minute periods.

SOCIAL EVENTS

- **Civic Reception**: 1st of April
- **Conference Dinner**: 2nd of April

VENUE. The 18th International Conference on Renewable Energies and Power Quality (ICREPQ'20) will be held at the University of Granada (ETSI Caminos, Canales y Puertos), Spain.

REGISTRATION

The conference registration fee for all the participants covers full attendance at the conference, the presentation of one paper, the documentation of the conference, the lunches during the three days, the coffee breaks, the Civic Reception, the Alhambra Visit and the Cultural Visit to the Cathedral and other monuments of Granada on Friday afternoon.

The registration for guests accompanying conference participants includes the same that for the other participants, but not cover the documentation of the conference.

CONCEPT	Before January, 20, 2020(*)	After January, 20, 2020(*)
Authors/Participants	€ 470	€ 530
PhD Students (**)	€ 400	€ 450
Second paper	€ 140	€ 180
Third paper	€ 100	€ 120
Accompanying Conf. Participants	€ 390	€ 440
Conference Dinner (Optional)	€ 70	€ 80
Alhambra Visit	€ 00	€ 00
Cultural Visit	€ 00	€ 00

Registration fee =(*)Euros. The date is just the moment when the fee payment is received.

We consider to all the participants like a Temporary Members of the EA4EPQ Association, Agreement of EA4EPQ General Meeting of March 12th, 2009, and then in accordance with the Law 37/1992 and the Royal

Decree 1624/1992, Ministry of Finance letter of 7 May 2003 for EA4EPQ members, they do not pay taxes.

(**)For students it is necessary to provide, at the ICREPQ'19 Secretariat a Faculty or Department document that justify the student condition.

One part of your ICREPQ registration fee, after cover the administrative, maintenance and organization costs, will be transferred to one bank account for to collaborate and support the Cancer-World Health Organization' work. <https://www.who.int/>

IMPORTANT: Please send to the International Secretariat the Registration Form with the correct information for to make the invoice: name, company, address, VAT number (or passport number) and if you make a bank transfer, please fill up the sheet putting always your name and the reference(s) of your paper(s). You can pay also directly by credit card. All the information is in the web page: www.icrepq.com/registration.htm
Please put the reference of your paper(s) in all the correspondence.

Payment: Directly by credit card or transferring the registration fees to the AEDERMACP (EA4EPQ) Bank Account. Number: 2080 5142 84 3040003295; IBAN ES95 2080 5142 84 3040003295. BIC (SWIFT): CAGLES MMXXX. Name of the bank: ABANCA. Bank Office: Av. Castelao, 79, 36209 VIGO (Spain).

Cancellation. Cancellation refunds, minus handling and administration costs of 10%, will be made by bank transfer for written cancellations received by the International Secretariat prior to February 5, 2020. No refunds will be made for cancellations after this date, or if the participant have the invoice requested before, but the documentation of the conference will be mailed.

Name badge. An admission badge will be provided to each participant. This badge entitles access to the technical sessions and should be worn through the conference.

For registration, invoices, etc, use the address: icrepq@icrepq.com

INTERNATIONAL SECRETARIAT

The International Secretariat of ICREPQ'20, for send the digests, full papers, and for all concerning with authors and their works, is:

ICREPQ

Electrical Engineering Department
Vigo University.

Campus of Lagoas-Marcosende
36310 VIGO (Spain)

Phone number: +34 986812685

E-mail: icrepq@icrepq.com

Web page: <http://www.icrepq.com/>

