IMPORTANT DATES

JULY 5, 2015
Deadline for abstract submission. Authors will be notified regarding full papers within three weeks.

SEPTEMBER 15, 2015
Deadline for full paper submission.

FEBRUARY 15, 2016
Authors notified about acceptance and required modifications.

MARCH 15, 2016
Final manuscript submission.

JUNE 20-24, 2016
19th Power Systems Computation Conference, Genoa

THE CITY

Welcome to Genoa, a portal between land and sea. A crossroad of cultures and people since ancient times, Genoa has always been a land that lives and breathes the sea air. Its history speaks grandly of this magnificent city, displaying its richness and beauty in every corner of the old town. The narrow and characteristic *carruggi* snake between the tall buildings along the medieval street plan, apparently inhomogeneous yet well-defined by the main streets that meander towards both the sea and inland. You could admire and visit beautiful buildings, gorgeous churches with façades decorated by stuccoes and frescoes and invaluable art collections, museums, theatres and more in Genoa and in the surroundings. Genoa means also the **Ligurian Riviera: Portofino, Camogli, Sanremo, Alassio and Cinque Terre.**
Genoa has a very important University. It was founded in Genoa in 1481, established in the historic center with branches in various cities of Liguria and has managed over the years to maintain its regional monopoly.
Today the **University of Genoa**, with teaching sites in Genoa, Imperia, Savona and La Spezia, has five Schools, for a total of 125 courses of studies of the first level, more than 90 Master Degrees and more than 40,000 students.
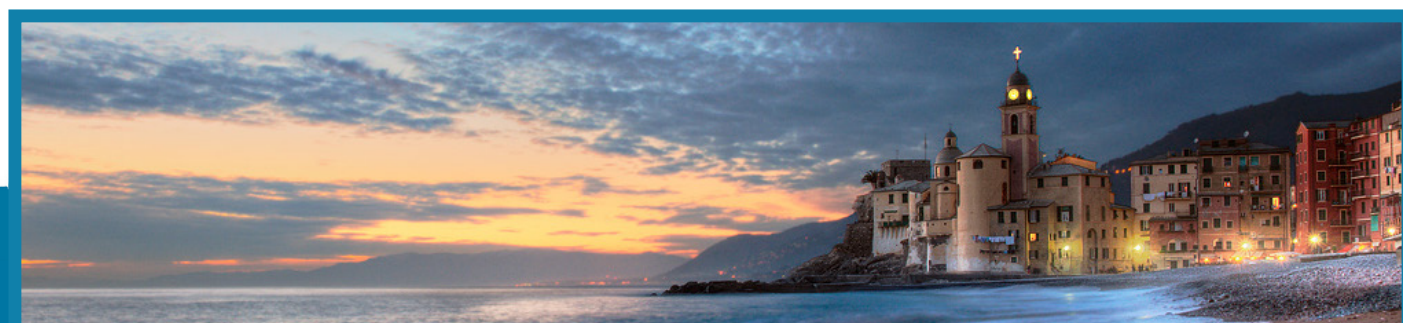
TECHNICAL PROGRAMME COMMITTEE

Chair: K.R.W. Bell, *UK*
Vice-Chair: M. Paolone, *Switzerland*

A. Bakirtzis, *Greece*
A. Berizzi, *Italy*
K. Bhattacharya, *Canada*
J. Bialek, *Russia*
A. Borghetti, *Italy*
P. Carvalho, *Portugal*
R. Cherkaoui, *Switzerland*
D. Cirio, Italy
N. A. Cutululis, *Denmark*
C. Dent, *UK*
H. Englert, *Germany*
D. Ernst, Belgium
O. Fosso, *Norway*
T. Funabashi, *Japan*
M. Gibescu, *Netherlands*
T. Gòmez, *Spain*
X. Guillaud, *France*
L. Haarla, *Finland*
D. Hill, *Hong Kong*
I. Hiskens, *USA*
G. Hug, *Switzerland*

A. Keane, *Ireland*
W.L. Kling, *Netherlands*
T. Krause, *Switzerland*
S. Low, *USA*
P. Mancarella, *UK*
F. Milano, *Ireland*
M. Molinas, *Norway*
D. Molzahn, *USA*
L. Nordstrøm, *Sweden*
C.A. Nucci, *Italy*
P. Panciatici, *France*
A. Papavasiliou, *Belgium*
J. Peças Lopes, *Portugal*
Y. Phulpin, *France*
T. Pollet, *Switzerland*
C. Rehtanz, *Germany*
E. Rosolowski, *Poland*
H. Saitoh, *Japan*
P. Schegner, *Germany*
A. Simoes Costa, *Brazil*
J. Sousa, *Portugal*

K. Strunz, *Germany*
G. Taranto, *Brazil*
J. Tong, *USA*
T. Van Cutsem, *Belgium*
P. Van Hentenryck, *Australia*
D. Van Hertem, *Belgium*
C. Vournas, *Greece*
M. Zdrallek, *Germany*
P. Zeng, *China*

LOCAL ORGANISING COMMITTEE

Chair: Stefano Massucco, University of Genoa, *Italy*
Vice-Chair: Federico Silvestro, University of Genoa, *Italy*
Raffaele Traverso, AEIT Ligurian Section, *Italy*

Conference Secretariat:
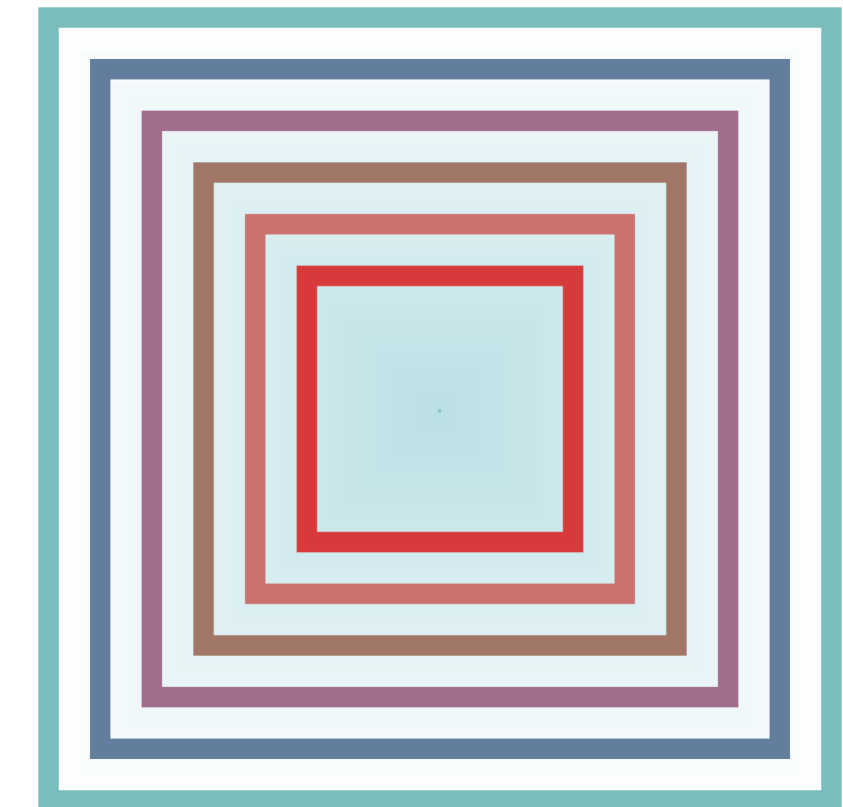e-mail: pscc2016@unige.it
website: www.pscc2016.net

UNIVERSITÀ DEGLI STUDI DI GENOVA

19th

Power Systems Computation Conference

pscc2016

GENOA

June 20-24, 2016
Genoa, Italy

www.pscc2016.net

THE CONFERENCE

The Power Systems Computation Conference (PSCC) has become one of the most outstanding events in the area. With a change of pace from meeting every 3 years to every 2, **PSCC provides a truly international forum for the regular exchange of knowledge and experience on the latest developments in this area.**

PSCC addresses theoretical developments and computational aspects with respect to power system applications. There is an emphasis on modelling and simulation for understanding a system of components, plant or actors, the interactions between them and their collective behaviour, and methods to inform decision-making in power systems. Contributions might comment on the analytical techniques, modelling challenges and complex software engineering issues, or what the analyses say in respect of today's and the future's power system challenges. Thus, papers from utility and manufacturing industry engineers are just as welcome as those from academic researchers.

The following list of topics is not exhaustive but is offered in order to help prospective authors identify what is likely to be in scope.

ASSESSMENT OF SYSTEM ISSUES IN THE PRESENCE OF UNCERTAINTY OR UNBUNDLING
• Asset management, condition monitoring and diagnostics
• Massive integration of highly-variable renewable energy resources into power systems
• Planning of distributed storage systems
• Power system economics, energy markets and regulation Uncertainty and risk management methods

MODELLING AND ANALYSIS OF A POWER SYSTEM'S PERFORMANCE AND ITS CONTROL
• Blackout prevention and system restoration
• Control centre technologies, energy management systems
• Distributed storage system operation and control
• Distribution system monitoring, operation and control
• Integration of demand-side management: definition of control schemes, performance assessment and protocols
• Electro-magnetic transients on a system
• Power electronics and HVDC as part of a power system
• Power quality
• Power system protection
• Power system dynamics and operation
• Virtual power plants
• Wide-area monitoring and control

INTEGRATED MODELLING AND OPERATION OF INFORMATION AND COMMUNICATION TECHNOLOGIES (ICT) IN POWER SYSTEMS
• Cyber security in power systems operation and control
• ICT-driven intelligent and autonomous controls
• Modelling of cyber-physical energy and communication systems

DATA ANALYSIS AND COMPUTATION
• Data-driven modelling techniques for power systems
• Machine learning, statistics and computational intelligence
• Management and utilization of large data sets
• Mathematical and computational issues in modelling and simulation

The techniques considered include:

• Modelling and simulation
• Optimization and mathematical programming
• Uncertainty & risk management methods
• Control theory
• Communication technology
• Signal processing
• Computational intelligence including evolutionary techniques, Artificial Neural Networks etc.
• Machine learning and statistics
• Semantic web technologies

TECHNICAL PROGRAMME

The technical programme of the conference includes:
❯ Presentation of accepted papers
❯ Panel sessions
❯ Invited presentations on selected topics
❯ A one day tutorial (optional)

PAPER TYPES

Four types of papers are sought:

TYPE 1 New approaches and techniques for modelling, analysis or control of power systems.

TYPE 2 Improvements in methodologies or modelling currently applied in the power system domain.

TYPE 3 Case studies and experience with implementations of new methodologies.

TYPE 4 Case studies and experience in application of computational methods to modern power systems challenges.

INSTRUCTIONS TO AUTHORS

ABSTRACTS (DEADLINE JULY 5, 2015)
The abstract should contain the title of the paper, contact person, authors and their affiliations, keywords, together with a summary of the paper. Within three weeks of the deadline for receipt of the abstract, the contact person will be notified if the abstract is accepted or not.

FULL PAPERS (DEADLINE SEPTEMBER 15, 2015)
After acceptance of the abstract, authors will be requested to submit the full paper that should not normally exceed seven pages.
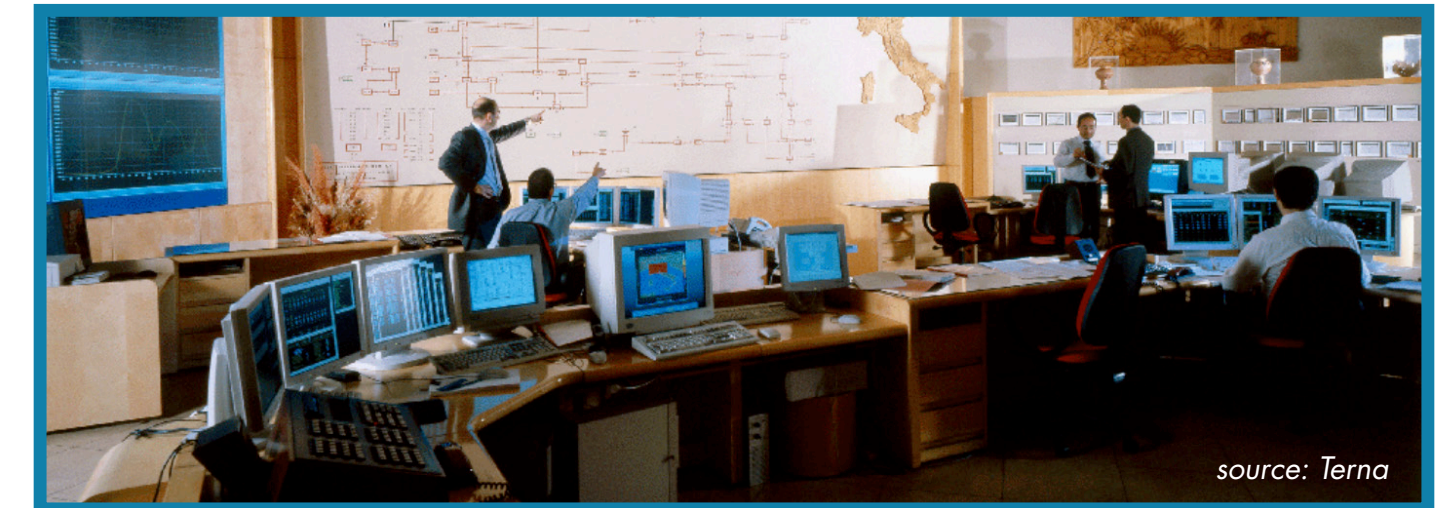
source: Terna

❯ It should be noted that only electronically submitted abstracts and papers are considered.

❯ All papers are evaluated by the Technical Programme Committee through a fair and rigorous procedure in order to guarantee a technical program of outstanding quality.

❯ In order to be published in the final conference proceedings, all accepted papers must be presented at the conference by one of the named authors.

❯ English will be used for all printed material, as well as for the technical presentations and discussions.

DETAILED INSTRUCTIONS ON FORMAT AND SUBMISSION OF ABSTRACTS AND PAPERS CAN BE FOUND AT:

www.pscc2016.net