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Objectives:
EUROGEN 2017 will be the twelfth of a series of International Conferences previously held in Las Palmas de Gran Canaria - Spain (1995), Trieste - Italy (1997), Jyväskylä - Finland (1999), Athens - Greece (2001), Barcelona - Spain (2003), Munich - Germany (2005), Jyväskylä - Finland (2007), Cracow – Poland (2009), Capua - Italy (2011), Las Palmas de Gran Canaria - Spain (2013) and Glasgow - UK (2015) devoted to Evolutionary Computing for Industrial Applications. It aims at bringing together specialists from Universities, Research Institutions and Industries developing or applying Evolutionary and Deterministic Methods in optimization of design and emphasizing on industrial and societal applications. This series of conferences were originally launched by the European Thematic Network INGENET.

EUROGEN 2017 is an ECCOMAS Thematic Conference. ERCOFAC, represented by its Special Interest Group (SIG) on Design Optimization, is now the ECCOMAS associate of this ECCOMAS Thematic Conference, in particular, in the context of the CAERO2 EC-Project.

The conference will include plenary invited and keynote lectures, minisymposia (MS) and contributed papers.

Algorithmic Topics:
- Metaheuristics and Evolutionary Algorithms (including Evolutionary Programming, Evolution Strategies, Genetic Algorithms, Memetic Algorithms and Artificial Immune Systems, etc.)
- Multi-objective Evolutionary Algorithms and Constraint Handling Techniques
- Adjoint Methods and One-shot Methods
- Hybrid methods (Gradient Based Methods, Combinatorial Optimization Methods, etc.)
- High Performance Computing and GPUs
- Goal oriented optimization for mesh and meshless methods
- Game Strategies
- Surrogate Models
- Parallel and distributed Evolutionary Algorithms (from LANs to GRID)
- Multi-disciplinary Optimization Methods
- Design with Uncertainties
- Economic and Social simulations
- Multi-criteria Decision Making tools
- Robust Design
- ....

Major Application Areas:
- Aeronautics, Aerospace, and Space
- Agriculture and Food Production
- Automotive
- Bio Engineering and Medicine
- CAD and Manufacturing
- Civil and Structural Engineering
- Economics and Finance
- Electromagnetics
- Electronics
- Energy, including Renewable Energy
- Environment
- Genetics
- Material Science and Technology
- Offshore, Coastal and Marine Engineering and Operations
- Risk Analysis
- Smart Materials and Structures
- Social Sciences and Politics
- Telecommunications
- Transport and Logistics
- Turbomachinery
- ....

Location:
Madrid, the capital of Spain, is a cosmopolitan city that combines the infrastructures and status as an economic, financial, administrative and service centre, with a large cultural and artistic heritage, a legacy of centuries of exciting history. Madrid has one of the most important historic centres of all the great European cities.

The historic centre, also known as the “Madrid of Los Austrias” (in reference to the Hapsburg monarchs), and the spectacular Plaza Mayor square are a living example of the nascent splendour of the city in the 16th and 17th centuries. Art and culture play a key role in Madrid’s cultural life.