Special Issue on
Materials and Manufacturing in Gas Turbine Technology

Gas turbines are widely used in many of today’s power plants. The efficiency of a gas turbine is significantly affected by its firing temperature; hence, materials used in turbine blades and rotor must be able to sustain severely high temperatures, and therefore, indirectly play a crucial role in the overall performance of gas turbines. Furthermore, it is necessary to employ new manufacturing technologies in order to further improve the gas turbine efficiency and performance.

The purpose of the special issue of the journal *Energy Equipment and Systems*, titled “Materials and Manufacturing in Gas Turbine Technology“, is to publish most recent advances in materials and manufacturing technology for power generation field, specially gas turbines. In particular this issue aims to focus on:

- Materials performance assessment and life management
- Operating conditions and materials selection
- Turbine blade material and casting technology
- Thermal barrier coating technology
- Welding repair technology for components subject to high Temperatures
- Drilling technology for components subject to high temperatures
- Additive manufacturing (gas turbine applications)

Deadline for receiving manuscripts for peer reviews is **August 31, 2018**.

We look forward to receiving your valuable contributions to this special issue of the journal of *Energy Equipment and Systems*. 