



International Journal of Oil, Gas and Coal Technology
Call for Papers for Special Issue on: “Modelling, Simulation and Computer Software Developments in Petroleum Production and Processing Industries”

Guest Editor

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Today, innovations and improvements are needed to react quickly to the new trends of the global economy as well as to the financial crises that are developing in many countries. On the contrary, innovations and technological advances that involve multi-disciplinary domains are also needed by developing countries to drive correctly and effectively their growth. In this sense, modelling and simulation is playing a crucial role as enabling methodology in different sectors, therefore authors are invited to submit novel researches and we welcome papers that bring together current theory and practice.

This special issue aims to provide a unique resource to professionals, academics, researchers, and managers working in the fields of petroleum oil, or other fossil hydrocarbon type fuels industries, biofuels, businesses and management from all over the world.

Subject Coverage

Topics include, but are not limited to, the following:

- Fundamental research and novel solutions spanning all scientific and technical disciplines (new methodologies and formulations, etc.), numerical analysis and related areas applied to the oil industry problems
- Applications of high performance computing, scientific visualisation, e-science, computer graphics, software engineering, databases and soft computing (genetic algorithms, neural networks, data mining, etc.) and related areas to the oil industry
- Role and Importance of computers in petroleum or biofuel engineering
- Reservoir modelling
- Simulation for production in the oil industry
- Petroleum engineering education
- Oil, gas and biofuels softwares
- Applications of computers in oil, gas or biofuel industry
- Modelling and simulation of petroleum, oil and biofuel production
- Process modelling and simulation in petroleum and biofuels industries
- Computer-based support to heavy oil field processing
- Nano/biotechnology, computerisation/automation, modelling/simulation

- Economic modelling of the oil and biofuel market

Notes for Prospective Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. (N.B. Conference papers may only be submitted if the paper has been completely re-written and if appropriate written permissions have been obtained from any copyright holders of the original paper).

All papers are refereed through a peer review process.

All papers must be submitted online. Please read our [Submitting articles](#) page.

If you have any queries concerning this special issue, please email the Guest Editors Dr. Francesco Longo at f.longo@unical.it or Antonio Padovano at antonio.padovano@unical.it.

Important Dates

Submission of manuscripts: *31 March, 2018*

Notification to authors: *30 July, 2018*

Final versions due: *31 September, 2018*