

## Tentative Outline

### Special Thematic Issue for the journal *RECENT PATENTS ON MECHANICAL ENGINEERING*

Title of the Thematic Issue: Three Dimensional Fluid Flow and Flow-induced Noise Analysis

Guest Editor(s): *Ming Gao*

#### • Scope of the Thematic Issue:

The thematic issue publishes high-quality original papers that develop new research method, advance the understanding of the hydrodynamics and hydro-acoustics, aerodynamics and aero-acoustics, as well as the noise control and optimization in the widest aspects.

**Keywords:** Hydrodynamics, Aerodynamics, Hydro-acoustics, Aero-acoustics, Fluid-vibration-acoustic-coupling, Noise optimization design, Active/passive noise control

#### Sub-topics:

The sub-topics to be covered within the issue should be provided:

- The analysis on hydrodynamics, aerodynamics and corresponding acoustics in fluid machinery. (**Yijun Mao**; Associate professor; Xi'an Jiaotong University, Xi'an 710049, China; [maoyijun@mail.xjtu.edu.cn](mailto:maoyijun@mail.xjtu.edu.cn))
- Noise source identification. (**Antonio Posa**; Institute of Marine Engineering, National Research Council of Italy; Via di Vallerano 139, Roma 00128, Italy; [aposa@gwu.edu](mailto:aposa@gwu.edu) , [antonio.posa@insean.cnr.it](mailto:antonio.posa@insean.cnr.it))
- The development of fluid-vibration-acoustic-coupling method. (**Stefano Gaggero**; Università degli Studi di Genova; Via Montallegro, Italy; [stefano.gaggero@unige.it](mailto:stefano.gaggero@unige.it))
- Original active/passive control exploration of flow-induced noise. (**Christophe Bailly**; Ecole Cent Lyon, Lab Mecan Fluides & Acoust, LMFA UMR CNRS 5509, Ecully, France; [christophe.bailly@ec-lyon.fr](mailto:christophe.bailly@ec-lyon.fr))
- Flow-induced noise visualization exploration. (**Sergey Karabasov**; Queen Mary, University of London, School of Engineering and Materials Science, Mile End Rd, London E1 4NS, England; [s.karabasov@qmul.ac.uk](mailto:s.karabasov@qmul.ac.uk))

#### Tentative titles of the articles and list of contributors:

Tentative titles of the articles and list of contributors with their names, designations, addresses and email addresses should be provided.

- Yijun Mao; Associate professor; Xi'an Jiaotong University, Xi'an 710049, China; [maoyijun@mail.xjtu.edu.cn](mailto:maoyijun@mail.xjtu.edu.cn)
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**Schedule:**

✧ Thematic issue submission deadline: 31 June 2020

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