

Guest Editors:

- (i) **Dr. Woon-Seng Gan**, *Nanyang Technological University, Singapore*
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The theory of parametric array was first presented by Westervelt in 1960. Since then, there have been great interests in applying parametric effect in sonar and underwater applications. It is not until 1973, when Bennett and Blackstock first demonstrated parametric array effect in air. In 1982, Yoneyama et al. developed the first parametric loudspeaker, known as audio spotlight. However, due to its poor audio quality, practical applications of the parametric acoustic array did not appear until much later, in the early 2000. Since then, we have witnessed several key researches and commercial products that are based on parametric acoustic array. In this special issue, we would like to compile some of these key research works, and report on new advances in the parametric acoustic array. We welcome technical papers submission in the following (but not limited to) topics:

- Theoretical studies, numerical simulations, and experiments on parametric acoustic array
- Signal processing techniques for parametric acoustic array
- Ultrasonic emitters designs and configurations
- Improvement in electro-acoustic efficiency
- Implementation techniques for parametric loudspeaker
- Novel applications of parametric acoustic array
- Parametric acoustic array in underwater

The targeted audiences of this special issue include professionals, academics, researchers, engineers working on the relevant topics in nonlinear acoustics, signal processing, and emitter designs, as well as for graduate students who wish to enter into this field.

Submission Procedure:

Authors should follow the Elsevier Journal of Applied Acoustics manuscript format described at http://www.elsevier.com/wps/find/journaldescription.cws_home/405890/description#description Prospective authors should submit an electronic copy of their complete manuscripts through the Elsevier manuscript tracking system at <http://ees.elsevier.com/apac/default.asp?pg=login.asp> according to the following timetable:

Schedule:

Manuscript due: October 1, 2011
First round review: December 1, 2011
Acceptance notification: February 1, 2012
Final manuscript due: April 1, 2012
Tentative Publication date: November 2012
