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The *Journal of Microelectronics and Electronic Packaging* is publishing a special issue on

Microactuators for Fluidic Applications

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This Special Issue of ***JMEP*** entitled "***Microactuators for Fluidic Applications***" is intended to give a comprehensive overview of the current status in respect to cutting-edge concepts and prototypes in this field. Authors are encouraged to submit primarily research papers with a length of at least 6 pages, and details regarding the format and copy right form can be obtained from http://www.imaps.org/jmep/authors.htm. If the submission of a review article is envisaged, please contact the guest editor in advance.

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In the recent years, actuators fabricated using MEMS technologies have gained enhanced attention both from academia as well as from industry. The specific application, however, needs to be carefully selected to exploit their full potential due to limitations such as low forces or restricted amplitudes which can be provided depending on the actuation principle. Besides this drawback, micromachined actuators are applied to a broad field of different application scenarios ranging from optical, high frequency, bio-medical and fluidic to those related to sensing and characterization in general. For the excitation of micromachined devices and structures, forces based on electrostatic, piezoelectric, thermo-mechanical and electromagnetic principles are typically applied. In microfluidics, the ink jet printer head is one of the most prominent representative, also from the economical point of view. Besides this success story, innovative approaches are reported nowadays in literature for fluidic flow manipulation and interaction when targeting both liquid and gaseous media.