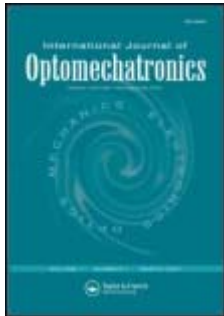


## Leading Optomechatronics Journal Announces Prize for Best Article!



The [International Journal of Optomechatronics](#) has announced the winners of the **2009 Koh Young Paper Award** for the best article that appeared in the journal in 2008. The winners are Azhar Iqbal and Foued Ben Amara for their article “*Modeling and Experimental Evaluation of a Circular Magnetic-Fluid Deformable Mirror*” (Volume 2, Issue 2, 2008). The authors are with the Department of Mechanical and Industrial Engineering at the University of Toronto, Canada.

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Dr. Hyungsuck Cho, the journal’s Editor-in-Chief, commented on the importance of the paper’s findings. “The paper presents a novel approach to the design of Magnetic Fluid Deformable Mirrors (MFDM) that allows for the linearization of the response of the MFDM surface to the applied magnetic field. The paper also presents an analytical model of the response of the mirror surface shape as well as experimental results to validate the developed analytical model. The results of the paper will make it possible to integrate the MFDM as part of high-performance cost-effective retinal imaging AO systems.” he said.

According to Dr. Cho, “MFDMs are a new type of wavefront correctors that can be used to improve the resolution of retinal images taken using adaptive optics (AO) systems. MFDM offer performance and cost advantages over traditional deformable mirrors that make use of piezoelectric, electrostatic, or electromagnetic actuators.”

One of the prize winning authors Dr. Foued Ben Amara said “The performance advantages offered by the proposed MFDMs, coupled with their low fabrication cost, will make it possible to develop cheap but high performance retinal imaging adaptive optics systems, hence enabling the widespread adoption of these systems in the detection of early signs of eye diseases.”

The [Koh Young Best Paper Award](#) recognizes advancement and innovation in the field of optomechatronics. The award will go to the best paper published in the *International Journal of Optomechatronics* in the previous year, as determined by the Koh Young Award Committee, and will be conferred annually. Winners will receive an honorarium of USD \$1000 and a plaque honoring their work.

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