Dear Editors, Associate Editors and Reviewers:

I, along with my co-authors, would like to ask you to consider the attached manuscript entitled “**Fast Contour-Tracing Algorithm based on Pixel-Following Method for Image Sensors**” for publication in ***Sensors***.

Contour pixels distinguish objects from the background, and so widely used in image processing and computer vision applications. Especially, because contour-tracing algorithm is very simple and fast, it is quite popular in smart/wearable sensor devices. However, conventional contour tracing algorithms miss contour pixels that are at specific relative pixel locations, or trace the pixels inefficiently because shortcuts to the local patterns are not considered. This paper proposes a novel contour-tracing algorithm, which provides fast and accurate results. Also, for embedded sensor devices, the paper proposes contour pixel compression and restoration method to reduce memory consumption. The results of comparative experiments conducted indicate that the proposed algorithms is not only fast and consistent, but also needs less-memory.

This preliminary version of our paper has been published in KISS(Korea Information Science Society) Conference in 2012. The paper, which published at KISS 2012, is referred as ISBF (Improved Simple Boundary Follower) algorithm, and it was aiming to trace in consistent not to miss contour pixels.

The paper, which submitted at ***Sensors***, “Fast Contour-Tracing Algorithm based on Pixel-Following Method for Image Sensors”, is continuous research from the paper that published at KISS 2012. The main goal of this paper is proposing a contour-tracing algorithm, which is not only faster and more consistent than the conventional algorithms, but also light-weight (consuming less memory) method for the embedded sensor devices.

We believe that the findings of this study are relevant to the scope of your journal and will be of interest to its readership.

This manuscript has not been published or presented elsewhere in part or in entirety, and is not under consideration by another journal. All study participants provided informed consent, and the study design was approved by the appropriate ethics review boards. All authors have approved the manuscript and agreed with submission to your esteemed journal. Details about competing interests are provided separately.

Thank you for your consideration. I look forward to hearing from you.

Sincerely,  
Jonghoon Seo  
Software Platform R&D Lab., LG Electronics Advanced Research Institute,   
19 Yangjae-daero 11 gil, Seocho-gu, Seoul 137-893, Korea  
E-Mail: jonghoon.seo@lge.com