



DECLARATION OF GERARD P. GRENIER

I, Gerard P. Grenier, am over twenty-one (21) years of age. I have never been convicted of a felony, and I am fully competent to make this declaration. I declare the following to be true to the best of my knowledge, information and belief:

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2. IEEE is a neutral third party in this dispute.
3. Neither I nor IEEE itself is being compensated for this declaration.
4. Among my responsibilities as Senior Director of Publishing Technologies, I act as a custodian of certain records for IEEE.
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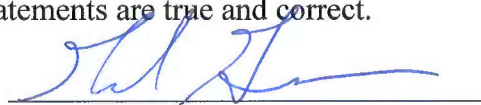
A.	M. Gotsopoulos, et. al., "Remote controlled DSP based image capturing and processing system featuring two-axis motion" 2010 4 th European Education and Research Conference, December 1-2, 2010.
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9. I obtained a copy of Exhibit A through IEEE Xplore, where it is maintained in the ordinary course of IEEE's business. Exhibit A is a true and correct copy of the Exhibit as it existed on or about January 16, 2017.
10. The article abstracts from IEEE Xplore shows the date of publication. IEEE Xplore populates this information using the metadata associated with the publication
11. M. Gotsopoulos, et. al., "Remote controlled DSP based image capturing and processing system featuring two-axis motion" was published in the 2010 4th European

Education and Research Conference. The 2010 4th European Education and Research Conference was held from December 1-2, 2010. Copies of this publication were made available no later than the last day of the conference. The article is currently available for public download from the IEEE digital library, IEEE Xplore.

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I declare under penalty of perjury that the foregoing statements are true and correct.

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Abstract:

The purpose of this paper is to present the design of a remote controlled DSP based real-time image processing system, equipped with a high resolution CMOS image sensor. This system is implemented utilizing the R-DImPr API and supports a two axes motion of the image sensor based on two stepper motors. The remote control of the system is achieved through a Graphical User Interface (GUI) via Internet or Ethernet. The user is able to configure some parameters of the image sensor such as gain and exposure time. The GUI allows the control of the stepper motors in order to adjust the position of the image sensor and the selection of the desired image processing algorithm. The proposed system can be used as a base of embedded surveillance or machine vision systems because of its open and flexible structure which allows the integration of advanced image processing algorithms.

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system

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