

Letter from the Editor in Chief for the First Issue of Engineering and Science Education

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Abstract:

The first issue of *Engineering and Science Education* was published on 02.Aug.2016. *Engineering and Science Education* is a scientific innovative journal that offers multimedia interactive content, a wealth of video and audio figures and abstracts and other novel approaches in presenting content to its readers. *Engineering and Science Education* aims at disseminating inventions and new ideas in the areas of aerospace engineering, geophysics, astronomy and education.

The Editorial Board of the journal is multinational, consisting of specialists in the fields of the journal scope. This journal is open access and has no publication fees whatsoever.

With this letter the author will present some of the journal's multimedia capabilities with the hope to attract you, the reader, to the new realm of multimedia journal publishing and get you involved in becoming an author of *Engineering and Science Education* soon!

Dear reader, allow me to present to you the innovative scientific journal *Engineering and Science Education*! Today, the second of August, 2016 the Editorial Board of *Engineering and Science Education* is pleased to announce the first issue of this innovative multimedia journal.

But why a new journal? There are so many out there, journals, magazines, covering all possible, fine - almost all possible and thinkable fields of human activities and scientific labour. "Why a new journal?", you will most certainly be tempted to ask. To my greatest delight there is a motive and fruitful grounds to this endeavour. The answer is "The multimedia content.". *Engineering and Science Education* will offer to its readers multimedia content, which includes:

- Interactive figures
- Video and audio figures
- Dynamically generated figures
- 3D visualization figures (stereoscopic 3D visualization figures)
- Formula calculators, inline or based in a figure
- Audio notes
- Video abstracts

Some of this multimedia elements are presented as examples in this article. The first figure (fig.1) is a demonstration of an interactive figure, used to calculate the fractal dimension of the coastline of Britain.



Fig.1. Coastline fractal dimension calculator interactive figure. Select $1/\epsilon$ and click "Execute..." button to observe graphically the calculation.

In the above interactive figure the reader may setup parameters and see the results immediately. Yet another interactive example is shown in figure 2. Using the mouse the visitor may "walk" through the Madelbrot set.

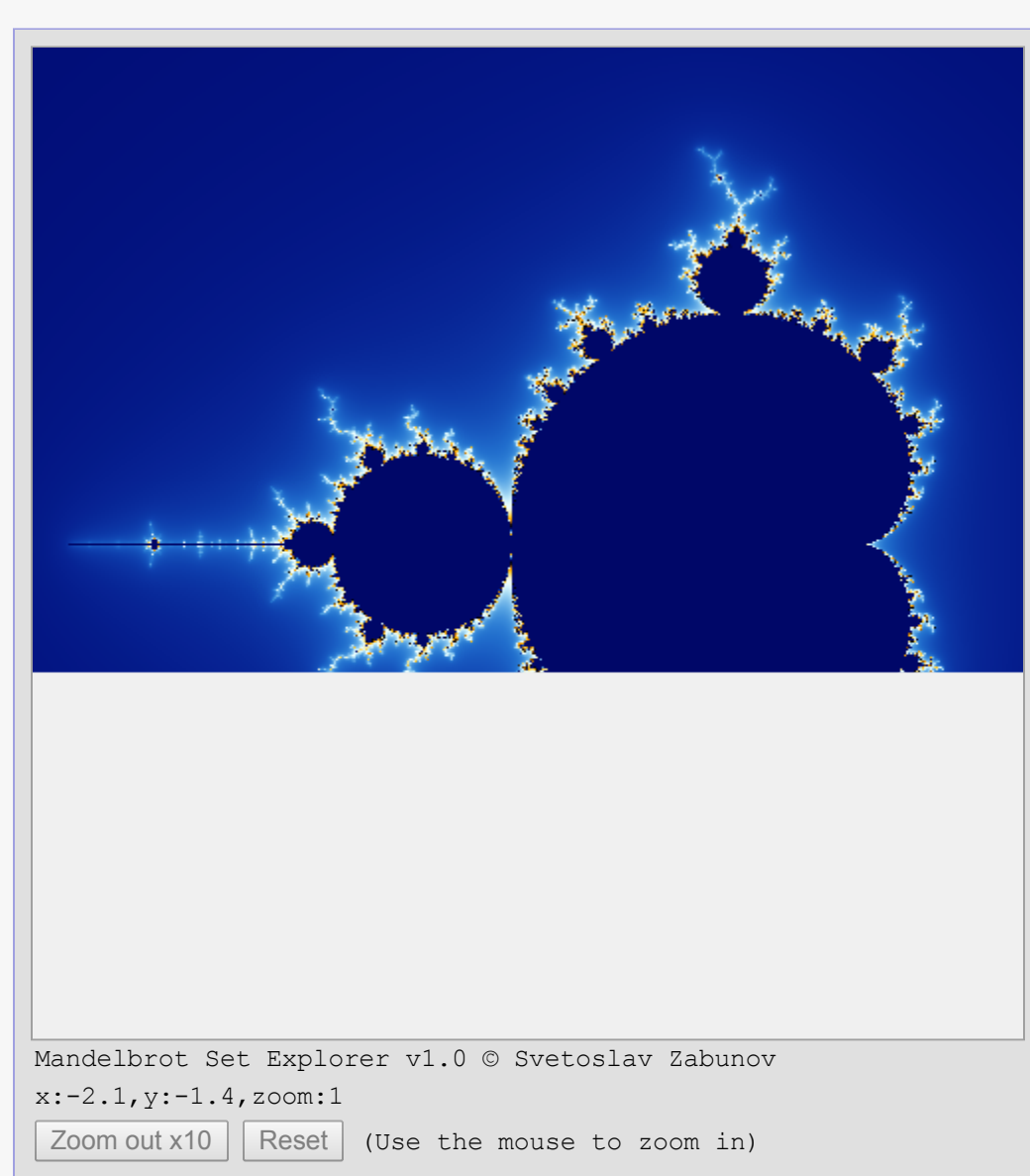


Fig.2. Mandelbrot Set Explorer interactive figure. Use the mouse to define rectangles that you wish to magnify.

The third example in this article is a simulation of a physical phenomenon. This simulation calculates, using numerical integration, the behaviour in time of an elastic body - a net of 900 mass points connected using springs and exhibiting friction caused by their velocity of motion.

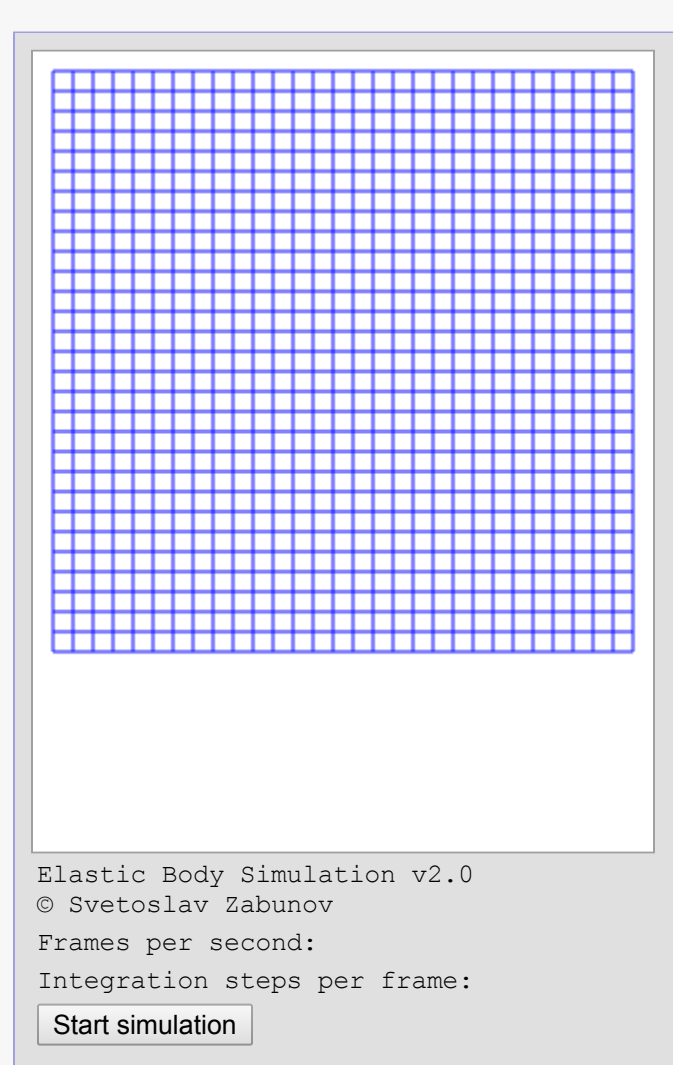


Fig.3. Elastic Body Simulation multimedia figure

Many other interactive and multimedia figures and content elements could be implemented by the imagination and creativity of the authors of *Engineering and Science Education*.

I would like to wish you success in your publishing experience and to tell you that the multimedia journal *Engineering and Science Education* is awaiting your contributions!

Sincerely yours,
Svetoslav Zabunov
Editor in Chief