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Invitation to Review for Computer Applications in Engineering Education

iskander@spectra.eng.hawaii.edu <iskander@spectra.eng.hawaii.edu>   Sun, Apr 10, 2016 at 11:46 PM
To: guzmanc@ugto.mx, guzmanc81@hotmail.com

11-Apr-2016

Dear Dr. Guzman-Cabrera,

Manuscript ID CAE-16-064 entitled "Teaching Computing in an Interdisciplinary Way in Social Studies
Classes in Schools – A Case Study" by Gresse von Wangenheim, Christiane; da Cruz Alves, Nathalia;
Rodrigues, Pedro; Hauck, Jean Carlo; Borgatto, Adriano has been submitted to Computer Applications in
Engineering Education.

I would like to invite you to review this manuscript. The abstract appears at the end of this letter, along with
the names of the authors. Please let me know within a few days if you will be able to review this paper. If you
are unable to review the paper, would you please take a moment and recommend one or two other possible
referees with expertise in this area.

Please note that CAE is presently experiencing a significant backlog and as a result only papers with
significant original and well documented contributions may be recommended for publication.

If you do choose to review this manuscript, I will contact you via email with instructions for accessing
Manuscript Central, our online manuscript submission and review system. You will then have access to the
manuscript and reviewer instructions in your Reviewer Center. Please try to complete your review within 1
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Thank you very much for your consideration and support for CAE.

Sincerely,

Prof. Paolo Rosso
Computer Applications in Engineering Education
Universitat Politècnica de València

MANUSCRIPT DETAILS

TITLE:
Teaching Computing in an Interdisciplinary Way in Social Studies Classes in Schools – A Case Study

AUTHORS:
Gresse von Wangenheim, Christiane; da Cruz Alves, Nathalia; Rodrigues, Pedro; Hauck, Jean Carlo;
Borgatto, Adriano

ABSTRACT:
In order to be well-educated citizens and to be prepared for careers in the 21st century, children need to learn
computing in elementary school. However, implementing computing education in schools faces several

practical problems, such as a lack of computing teachers and a lack of time in an already overloaded curriculum. In this context, an interdisciplinary approach, integrating computing education within other subjects in the school curriculum can be an efficient and effective way of learning. The present study proposes an instructional unit for computer education in social studies classes, following the curriculum guidelines for K-12 computer education. Children learn basic computing concepts by programming history related games using Scratch. The instructional unit is developed following an instructional design approach and is implemented and evaluated through a case study in four classes (5th and 7th grade) with a total of 105 students at a school in Florianópolis/Brazil. The results provide a first indication that that the instructional unit and the use of Scratch enables the learning of basic computing concepts (specifically programming) in an efficient, effective and entertaining way and increases the interest and motivation of students to computing.

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Thank you for reviewing - Computer Applications in Engineering Education

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Fri, May 13, 2016 at 11:07 AM

13-May-2016

Thank you for reviewing this manuscript.

CAE-16-064