

**ZMATH 2016c.01032**

**Semião, Paulo**

**Exploring surfaces through an applet. (Explorando superfícies através de um aplicativo.)**

Amado, Nélia (ed.) et al., Proceedings of the 12th international conference on technology in mathematics teaching, ICTMT 12. Faro: University of Algarve (ISBN 978-989-8472-68-7). 665-672 (2015).

Summary: We present an applet developed by the author to analyse and explore the main quadric surfaces. It is also reported the analysis of an experience conducted over the teaching period to several courses related with the use of such tools in the classroom. The work showed that the use of these tools in conjunction with the traditional teaching methods significantly improve the knowledge and skills of students allowing that they acquire stronger and deep knowledge of the subjects, increasing in this way their confidence and self-esteem.

*Classification:* U70 G70 I60

*Keywords:* ICT; b-learning; mathematical user interfaces; higher education