

Turkish Journal of Electrical Engineering & Computer Sciences

Turkish Journal

of

Electrical
Engineering &
Computer Sciences



[Keywords](#)



[Authors](#)



elektrik@tubitak.gov.tr

[Scientific Journals
Home Page](#)

**Design and evaluation of a linear
switched reluctance actuator for
positioning tasks**

António Eduardo Vitória do ESPÍRITO
SANTO, Maria do Rosário CALADO,
Carlos Manuel Pereira CABRITA

Department of Electromechanical
Engineering, University of Beira Interior,
6201-001 Covilhã-PORTUGAL
e-mail: aes@ubi.pt, rc@ubi.pt,
cabrita@ubi.pt

Abstract: This paper presents the development of a new linear switched reluctance actuator and confirms its applicability to perform positioning tasks. After the explanation of the actuator working principle and the presentation of its electromechanical topology, an analysis is accomplished using a finite elements tool.