

## FIXED POINT THEOREMS FOR COMPACT POTENTIAL OPERATORS IN HILBERT SPACES

A. BOUCENNA\*, S. DJEBALI\*,\*\*<sup>1</sup> AND T. MOUSSAOUI\*\*\*

\*Laboratory of Fixed Point Theory and Applications  
École Normale Supérieure, BP 92  
Kouba, 16006, Algiers, Algeria  
E-mail: boucenna-amina@hotmail.fr

\*\*Department of Mathematics, Faculty of Sciences  
Al Imam Mohammad Ibn Saud Islamic University (IMSIU)  
P.O. Box 90950, Riyadh 11623, Saudi Arabia  
E-mail: djebali@hotmail.com

\*\*\*Laboratory of Fixed Point Theory and Applications  
École Normale Supérieure, BP 92  
Kouba, 16006, Algiers, Algeria  
E-mail: moussaoui@ens-kouba.dz

**Abstract.** The aim of this paper is to present new fixed point theorems for compact potential operators in Hilbert spaces. A variational approach is used and applications to boundary value problems illustrate the existence results.

**Key Words and Phrases:** Potential operator, critical points, fixed point theorem, boundary value problem.

**2010 Mathematics Subject Classification:** 34B15, 47G40, 47H10, 58E30.

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<sup>1</sup>Corresponding author.

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Received: July 25, 2014; Accepted: February 26, 2016.