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## SOLVABILITY OF A QUADRATIC INTEGRAL EQUATION OF FREDHOLM TYPE VIA A MODIFIED ARGUMENT

MERVE TEMIZER ERSOY AND HASAN FURKAN

### ABSTRACT

In this study, we demonstrate the existence of solutions of a quadratic integral equation of Fredholm type with a modified argument. Our solutions are placed in the spaces of functions satisfying the Hölder condition and this is a part of the originality of the paper. For our study, we use a recent result about the relative compactness in Hölder spaces and the classical Schauder fixed point theorem.

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(M. Temizer Ersoy) KAHRAMANMARAŞ SÜTÇÜ İMAM UNIVERSITY, INSTITUTE OF SCIENCE AND TECHNOLOGY, 46100-KAHRAMANMARAŞ, TURKEY

*E-mail address*, M. Temizer Ersoy: [mervetemizer@hotmail.com](mailto:mervetemizer@hotmail.com)

(H. Furkan) KAHRAMANMARAŞ SÜTÇÜ İMAM UNIVERSITY, INSTITUTE OF SCIENCE AND TECHNOLOGY, 46100-KAHRAMANMARAŞ, TURKEY

*E-mail address*, H. Furkan: [hasanfurkan@gmail.com](mailto:hasanfurkan@gmail.com)

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