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

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### 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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