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**Vira Babenko\*** ([babenko@math.utah.edu](mailto:babenko@math.utah.edu)), The University of Utah, Department of Mathematics, 155 S 1400 E ROOM 233, Salt Lake City, UT 84112. *Volterra and Fredholm integral equations for functions with values in L-spaces.*

We explore nonlinear Volterra and Fredholm integral equations for functions with values in L-spaces (which are generalizations of set-valued and fuzzy-valued functions). We prove theorems of existence and uniqueness of the solution for such equations. In addition, we study the dependence of solutions of such equations on variations in the data. The exploration of these equations is of great importance given the wide variety of their applications in biology, physics, and engineering among others. (Received February 13, 2016)