1. **Record Nr.**   UNINA9910557782803321

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   Titolo   Applied Functional Analysis and Its Applications

   Pubbl/distr/stampa   Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2020

   Descrizione fisica   1 electronic resource (184 p.)

   Soggetti   Research & information: general
   Mathematics & science

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Sommario/riassunto   Applied functional analysis has an extensive history. In the last century, this field has often been used in physical sciences, such as wave and heat phenomena. In recent decades, with the development of nonlinear functional analysis, this field has been used to model a variety of engineering, medical, and computer sciences. Two of the most significant issues in this area are modeling and optimization. Thus, we consider some recently published works on fixed point, variational inequalities, and optimization problems. These works could lead readers to obtain new novelties and familiarize them with some applications of this area.