

The aim of this work is to implement a conversion from the scanned math formula to the editable form as a TEX file as an extension of the working OCR system. In this work we closely analyze this problem, its division into several smaller parts, such as math symbol recognition and a recognition of structure of math formulas, and their solutions together with a description of various solutions. We test our implementations using our database of symbols and math formulas. An important part of the work is also a creation of a set of complex applications with a sophisticated graphical user interface, which allow easy accommodation of conversion to the user's needs. During the conversion we work with images, which may contain insignificant noise caused by a scanner of lower quality.