

Lúthien is a software package designated to process astrographic images created by BOOTES, a Czech-Spanish robotic telescope system. As an extension to the RTS2 library, its purpose is to process large-sized astrographic images taken by a wide field camera. Due to high storage cost, it is necessary to treat the input data in real time (20 to 30 seconds being the maximum). Apart from that, the software is open and easily extensible. The proposed solution offers three detection methods to choose from. The first one implements the Standard Hough transform. The other two are based on the Canny edge detector and simple region growing, respectively.