

Automated Survey for Variable Stars with YSTAR

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YSTAR (Yonsei Survey Telescopes for Astronomical Research) program consists of three 50-cm telescopes designed for multiple survey purposes. The telescopes have fast F/2 optics covering 3.5 square degree field onto a 2K CCD. They also have very fast slew capability, which exceeds 10 degrees per second. These two factors make them most suitable for fast and wide-field surveys of various kind. Our primary objective is to identify and monitor variable stars down to 18th magnitude. The scientific significance of such survey and the current progress of our program will be discussed.