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(57) Abstract :
An augmented reality system (100) for stability analysis of control system, comprising: a user device (102) used by learners to select an input; a graph marker (110) represents a s-plane having movable markers (112); a camera (114) to capture images of the movable markers (112); a processing unit (128) draws a plot corresponding to time domain stability analysis or frequency domain stability analysis on the graph marker (110) based on the selected input; receives the captured images from the camera (114); compares the captured images with image markers to identify a location of the movable markers (112); generates a virtual content to be overlaid on a real content; displays augmented content representing stability analysis of the control system on the user device (102); and sensors (124) adapted to capture a motion of the movable markers (112) within an area of interest when the camera (114) fails to capture vision-based inputs.

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