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(57) Abstract :

The present invention discloses a Smart Polygon Area Calculator Mat comprising a processor unit (101), edge-length sensors (102), angle recognition sensors (103), display unit (105), and auditory output module (107). Users define polygon vertices using connector pegs (104), enabling real-time detection and calculation of area. Integrated with a Bluetooth module (106) for data export, the invention supports dynamic feedback, educational interactivity, and visually impaired accessibility. The system enhances learning, surveying, and design by simplifying complex polygon area computation.

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