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(57) Abstract :
A sustainable avian safety system, comprising an enclosure 101 to house a bird, a sensing array configured to capture motion, thermal signatures, and audio data from the vicinity of the enclosure 101, a plurality of PIR (passive infrared) sensors 102 mounted on the enclosure 101 to detect movement in the vicinity of the enclosure 101, a thermal imaging sensor 103 to pick up thermal of an entity approaching the enclosure 101, a detection module with a control unit adapted to receive thermal signature data and determine whether an entity is a human or an animal, a deterrent arrangement 106 provided with the enclosure 101 activated when an animal is detected, to repel the animal, a solar panel 107 to convert solar energy for powering the system, a memory unit to record detected activity with timestamps, and a user interface enabling remote monitoring and control of the system.

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