import GML document in order to configure the field of mobile sensor network, the map object lister button to classify the map provided by the GML document according to object, the zoom in button to magnify the map, the zoom out button to reduce the map, the full extension button to provide the map controlled by magnification/reduction/movement, the select zoom area button to select and expand a specific area on the map, the select target area button to set the target area on the map, the add sensor node button to add mobile sensor to ensure that the target area reaches the static equilibrium in the desired coverage when MSNS is in operation, and the position of sensor node button to show the information on location of the current mobile sensors.

Figure 10. Implementation and Panel Functions of MSNS

Components of configuration panel are as follows: sensing range slide bar, which sets sensing range of sensor; communication range slide bar, which sets communication range of sensor; supersonic wave range slide bar, which sets supersonic wave range of sensor; frame delay slide bar, which adjusts moving speed of sensor; sensing range checker, which checks if the sensing range of mobile sensor is visualized; communication range checker, which checks if the communication range of sensor is visualized; supersonic wave range checker, which checks if the supersonic wave range of sensor is visualized; node trace line checker, which checks if the distance in which sensor moved until the current time after being deployed in the beginning is visualized; goal coverage checker, which stops MSNS from