

ABSTRACT**AN IRRIGATION SYSTEM AND METHOD**

- 5 The present invention discloses an irrigation system for performing an irrigation process to supply water across one or more zones of at least one level that comprises a server (110) having a processor for managing operation of the irrigation system through wireless communication; a piping system including one or more pipelines (122), with each pipeline (122) being provided at each zone to deliver water from a
- 10 water source (123), and having at least one valve (125); an irrigation management module that runs an irrigation determining process, having one or more types of sensors for obtaining environmental data to determine watering needs for each zone; and an irrigation controller configured to regulate water delivery through controlling opening and closing of the valve (125) based on the environmental data. The
- 15 irrigation determining process is run for the valves (125) of a single pipeline (122) in a one-by-one manner, and the irrigation determining process ends when there is no watering need for each zone as determined by the sensor.

(Fig. 1)