ABSTRACT

Systems, devices, and methods including at least one flight control computer (FCC) (113) associated with at least one UAV (108), where the at least one FCC is configured to: determine a direction of travel of the at least one UAV relative to the Sun; adjust a UAV airspeed to a first airspeed if the determined direction of travel is towards the Sun; and adjust the UAV airspeed to a second airspeed if the determined direction of travel is away the Sun; where the first airspeed is greater than the second airspeed to maximize solar capture of a solar array (110) covering at least a portion of the UAV.

[Figure 1]