**---------------------- /dronekit-python/examples/mission\_import\_export$-----**

**gnuplot gnuplot\_searcharea.p**

------------------------**csci-tag\_2016\_2017journal/mipr 2018**----------------------------------

**Searchtimeplot.p**

**Searchtime.data**

**gnuplot searchtimeplot.p**

set autoscale # scale axes automatically

unset log # remove any log-scaling

unset label # remove any previous labels

set xtic auto # set xtics automatically

set ytic auto # set ytics automatically

set title "2-tie UAV search time"

set xlabel "area (sq mile)"

set ylabel "time (normalized)"

set label "two rim point" at 0.3, 0.4

set arrow from 0.45,3 to 0.6, 2.6

set xr [0.2:1]

set yr [0:5]

set term postscript eps color blacktext "Helvetica" 24

set output "searchtime.eps"

plot "searchtime.data" using 1:2 title '2 UAVs' with linespoints , \

"searchtime.data" using 1:3 title '3 UAVs' with points

pause -1 "Hit return to continue"

----------------------------------------------------------------------------

more searchtime.data

# search time data for 3UAV bar

# Area 2UAV-search-time 3-UAV

0.25 1 0.7

0.3 1.2 1.15

0.35 1.3 1.15

0.4 1.6 1.2

0.45 1.8 1.3

0.5 2.2 1.8

0.55 2.6 1.8

0.6 3 2.2

0.70 3.6 2.8

0.9 4.4 3.2