

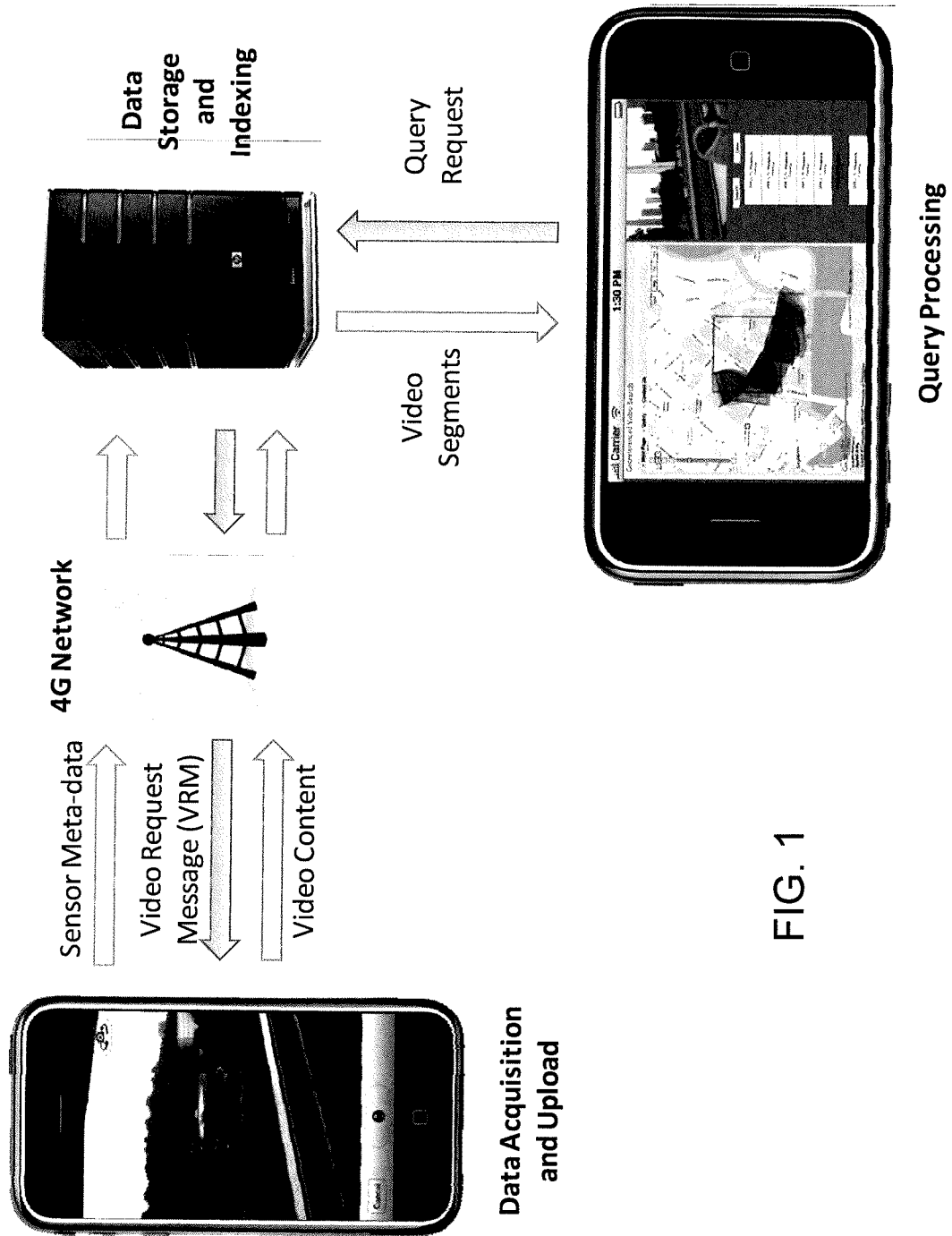


FIG. 1

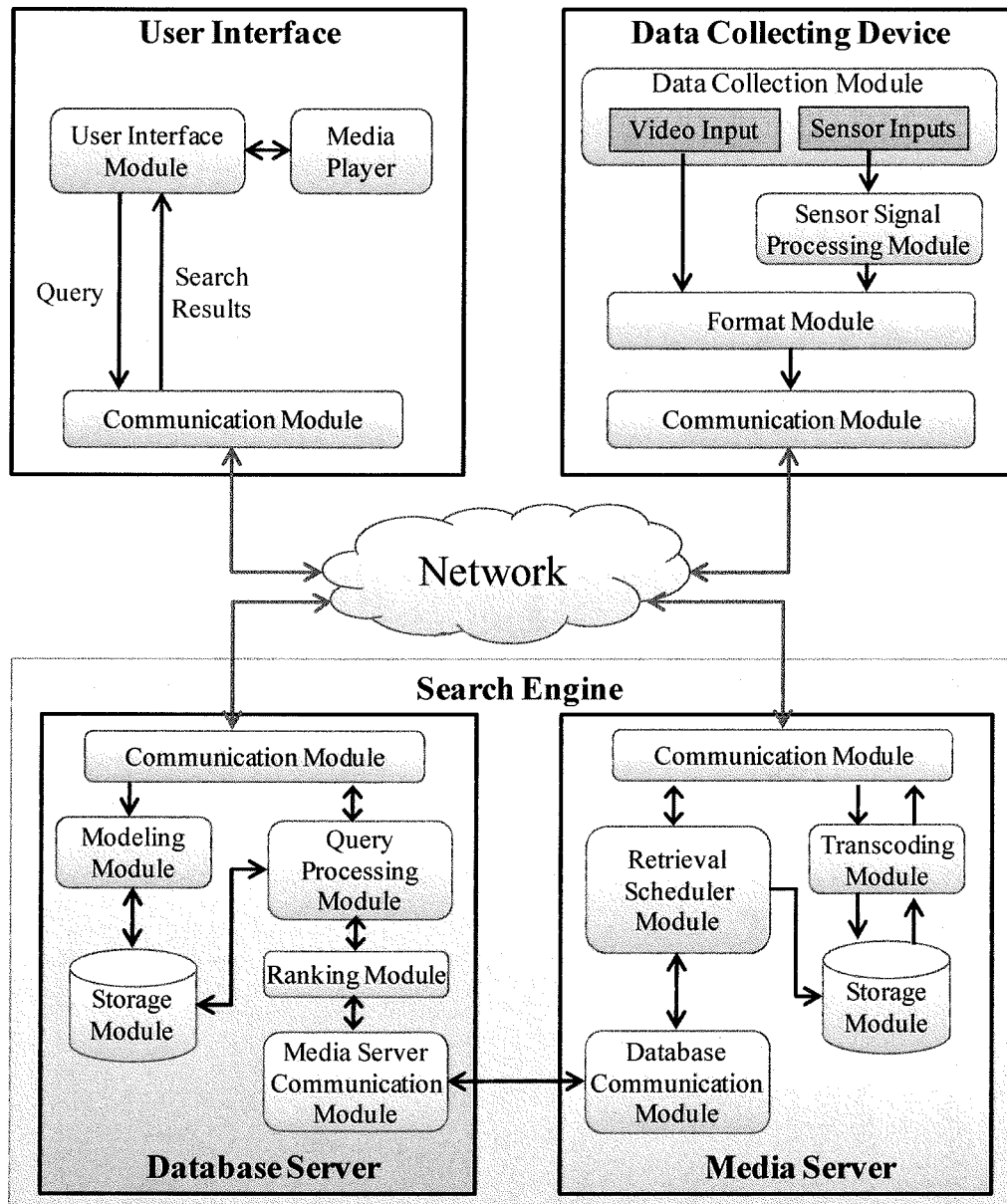
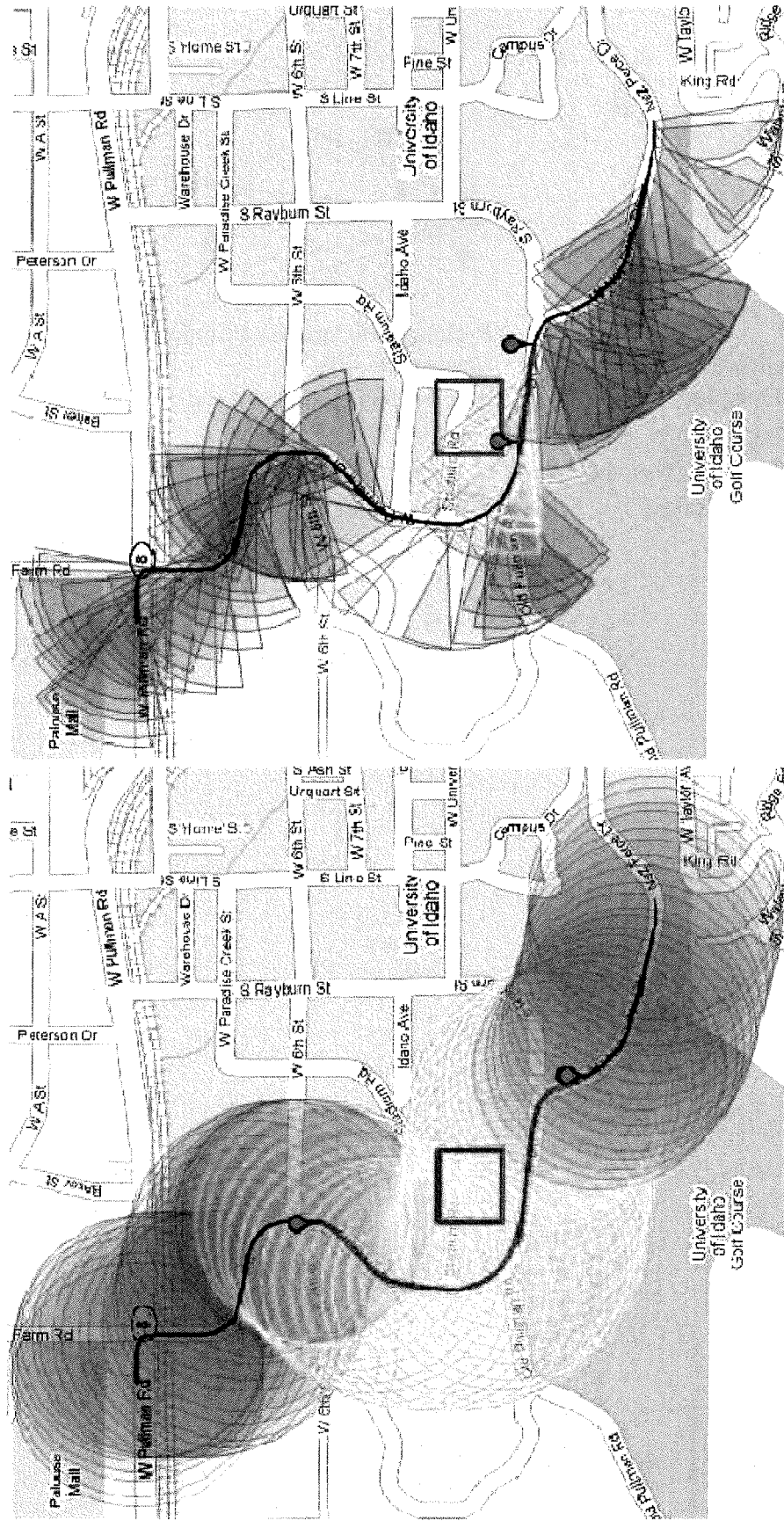


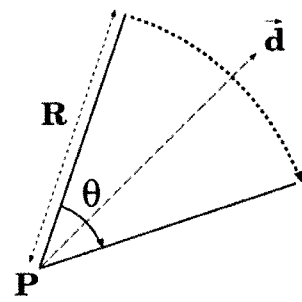
FIG. 2



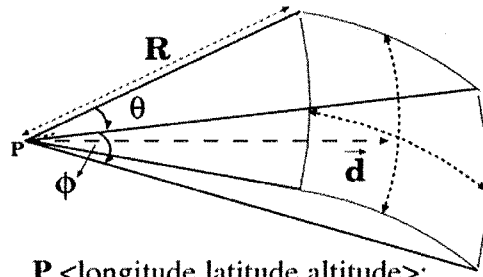
CircleScene Coverage

FOVScene Coverage

FIG. 3



P <longitude,latitude>:
camera location
 θ : viewable angle
 $\vec{d}$: camera direction vector
 R : visible distance



P <longitude,latitude,altitude>:
camera location
 θ, ϕ : horizontal and vertical
viewable angles
 $\vec{d}$: camera direction vector (in 3D)
 R : visible distance

FIG. 4

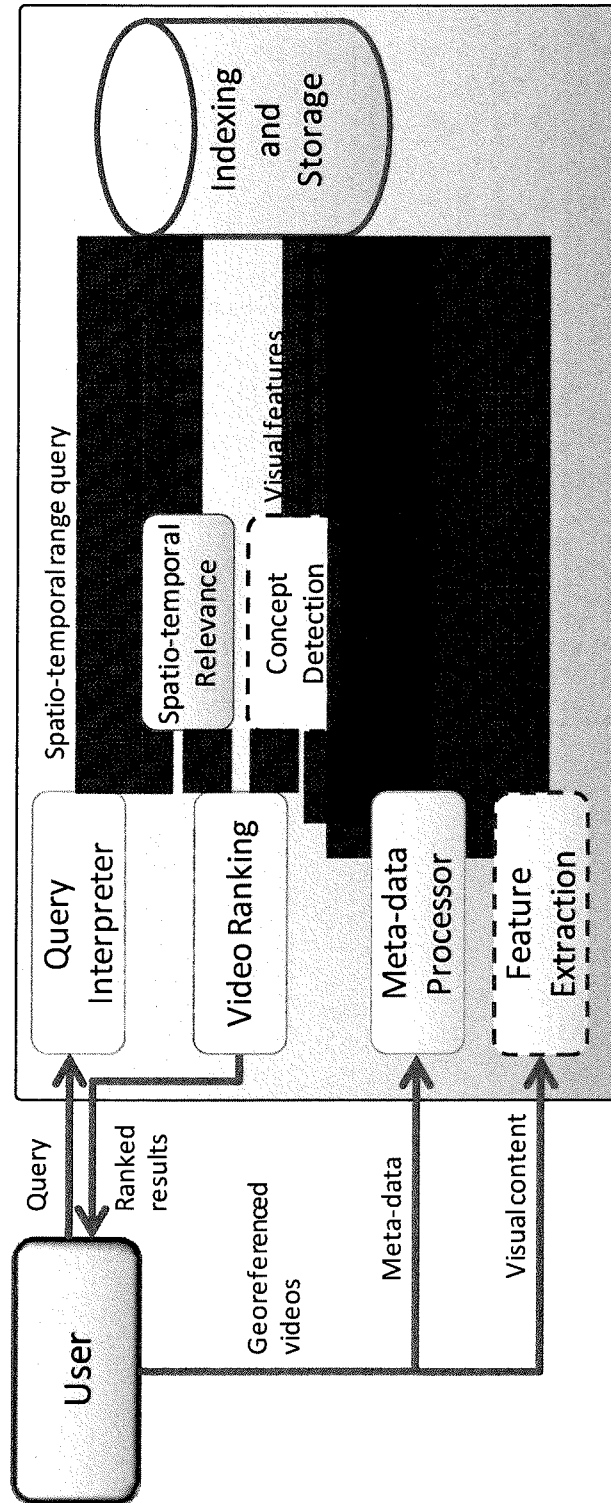


FIG. 5

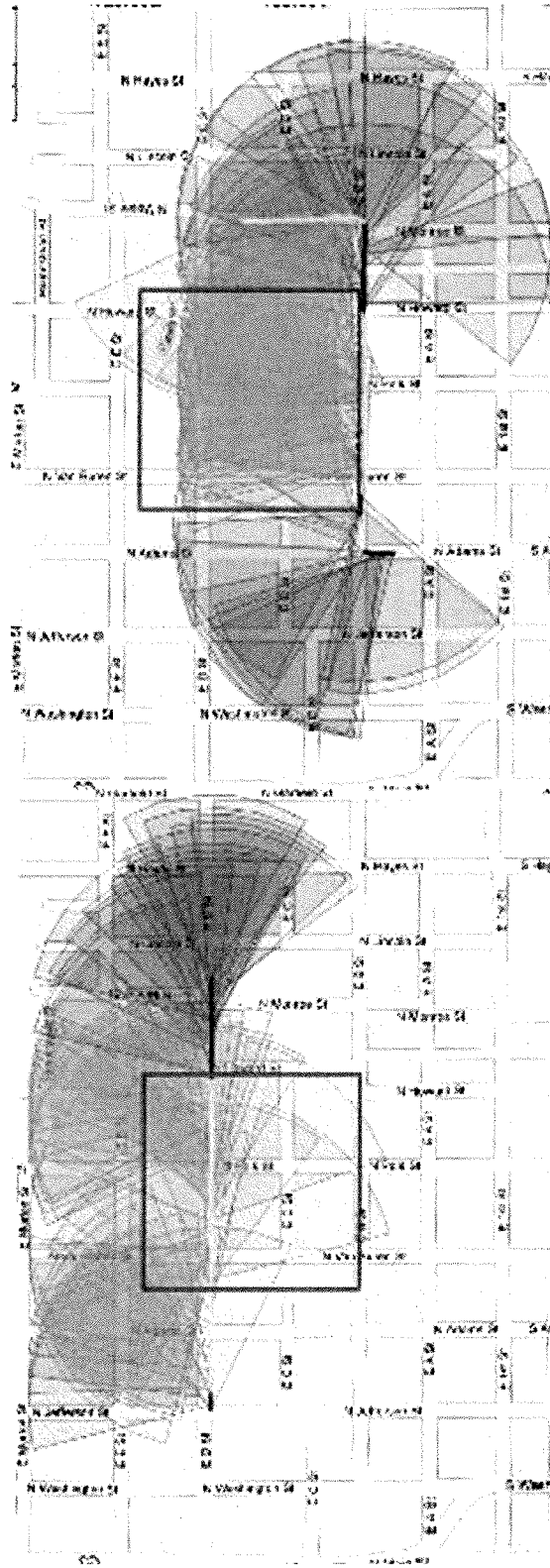


FIG. 6B

FIG. 6A

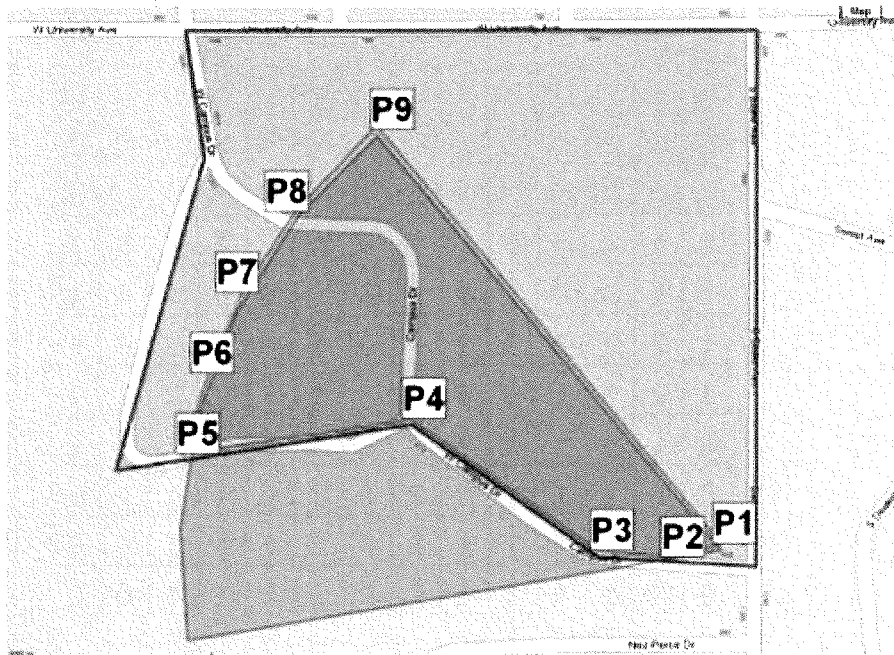


FIG. 7

23	23	22	16	14	17	17	15	16	17	19	20	19	19
24	25	22	17	13	14	15	20	21	20	20	21	17	17
24	24	21	14	12	13	16	22	23	21	20	18	16	18
23	20	21	14	10	9	15	23	23	22	19	15	16	17
22	18	15	12	11	13	18	22	22	21	16	13	15	15
14	17	13	12	11	14	17	20	20	16	13	11	12	13
2	3	4	6	6	8	9	9	10	10	8	8	8	7
2	2	3	3	3	3	3	6	6	6	6	4	4	4
1	2	2	2	3	3	3	3	4	4	3	2	3	4
1	2	2	1	1	3	3	3	3	3	2	2	2	2
0	1	1	1	1	2	3	3	3	3	1	1	2	1
0	1	1	1	1	2	2	3	3	1	1	1	1	0
0	0	1	1	1	1	2	2	2	1	1	1	0	0
0	0	1	1	1	1	2	2	1	1	1	0	0	0

FIG. 8A

0	0	0	0	0	0	2	6	8	8	6	5	1	1
0	0	0	0	0	0	5	8	8	8	8	7	5	1
0	0	0	2	2	2	8	9	9	8	9	9	8	4
4	7	10	14	19	12	21	25	22	18	18	16	19	15
5	9	14	19	21	24	37	39	40	39	37	31	28	21
5	9	15	18	21	27	41	52	58	54	46	40	35	28
5	8	14	18	21	30	46	57	60	63	55	53	44	36
4	7	13	18	21	30	51	59	59	60	53	54	49	37
2	7	13	16	19	30	55	57	55	52	53	45	46	45
1	7	12	14	19	31	51	53	50	48	47	43	41	43
0	8	11	14	18	31	49	47	46	44	41	40	39	39
0	9	11	14	16	27	40	40	42	39	37	37	36	34
0	9	11	14	16	17	32	32	28	27	26	25	28	25
0	7	10	11	6	8	25	26	22	18	20	13	12	13

FIG. 8B

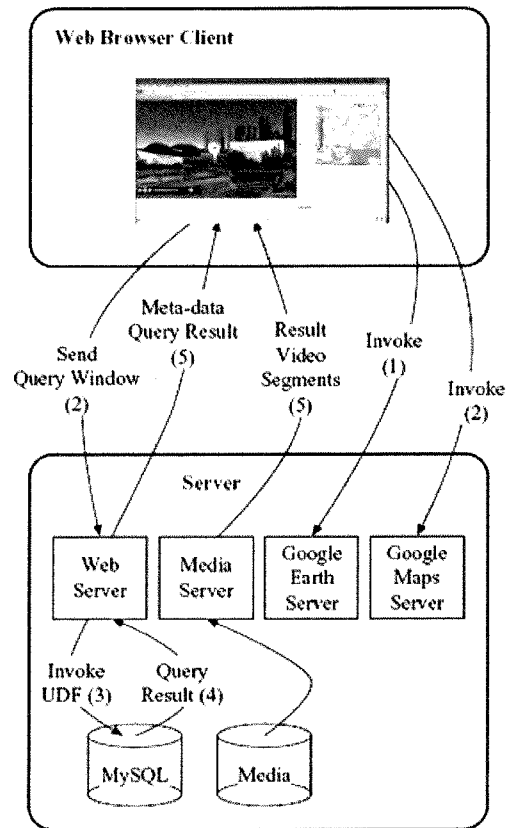


FIG. 9

```

<?xml version="1.0" encoding="UTF-8"?>
<array>
  <array>
    <date>2010-05-28T08:23:22Z</date>
    <real>1.3001484800000001</real>
    <real>103.76716863999999</real>
  </array>
  <array>
    <date>2010-05-28T08:23:59Z</date>
    <real>1.3001484800000001</real>
    <real>103.76716863999999</real>
  </array>
</array>

```

```

<?xml version="1.0" encoding="UTF-8"?>
<array>
  <array>
    <date>2010-05-28T08:23:22Z</date>
    <real>167.23540386557579</real>
  </array>
  <array>
    <date>2010-05-28T08:23:23Z</date>
    <real>167.23515872657299</real>
  </array>
</array>

```

FIG. 10

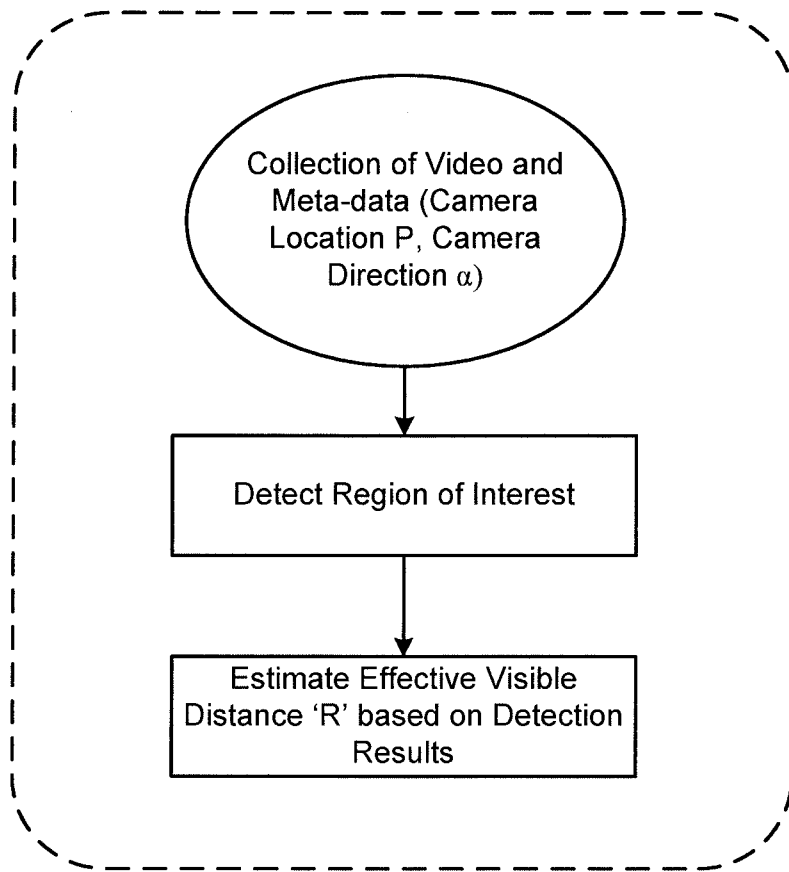


FIG. 11

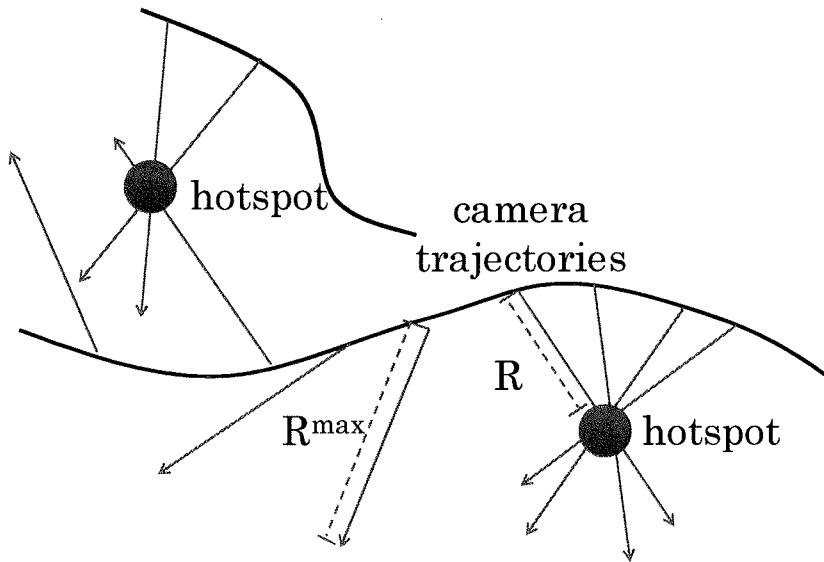


FIG. 12A

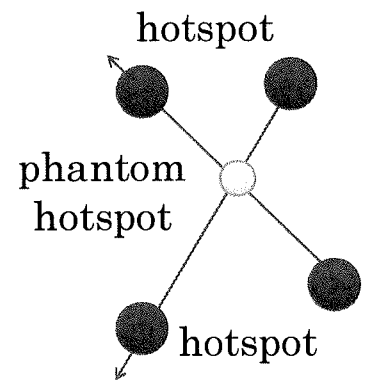


FIG. 12B

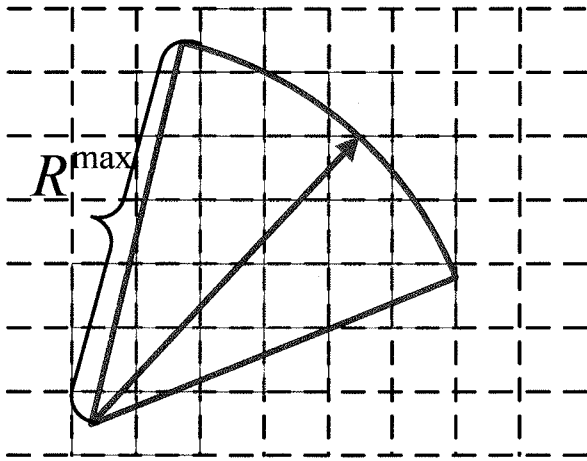


FIG. 13A

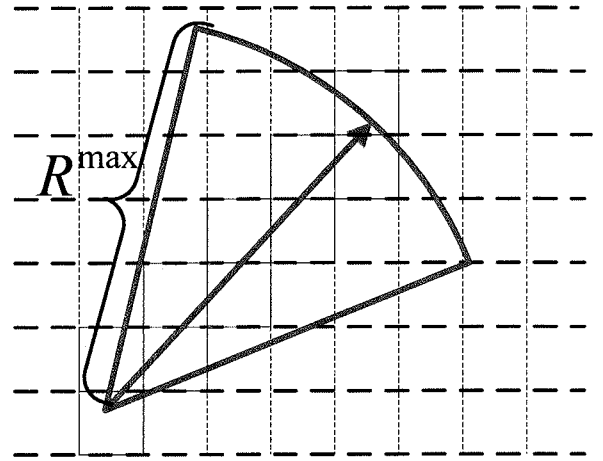


FIG. 13B

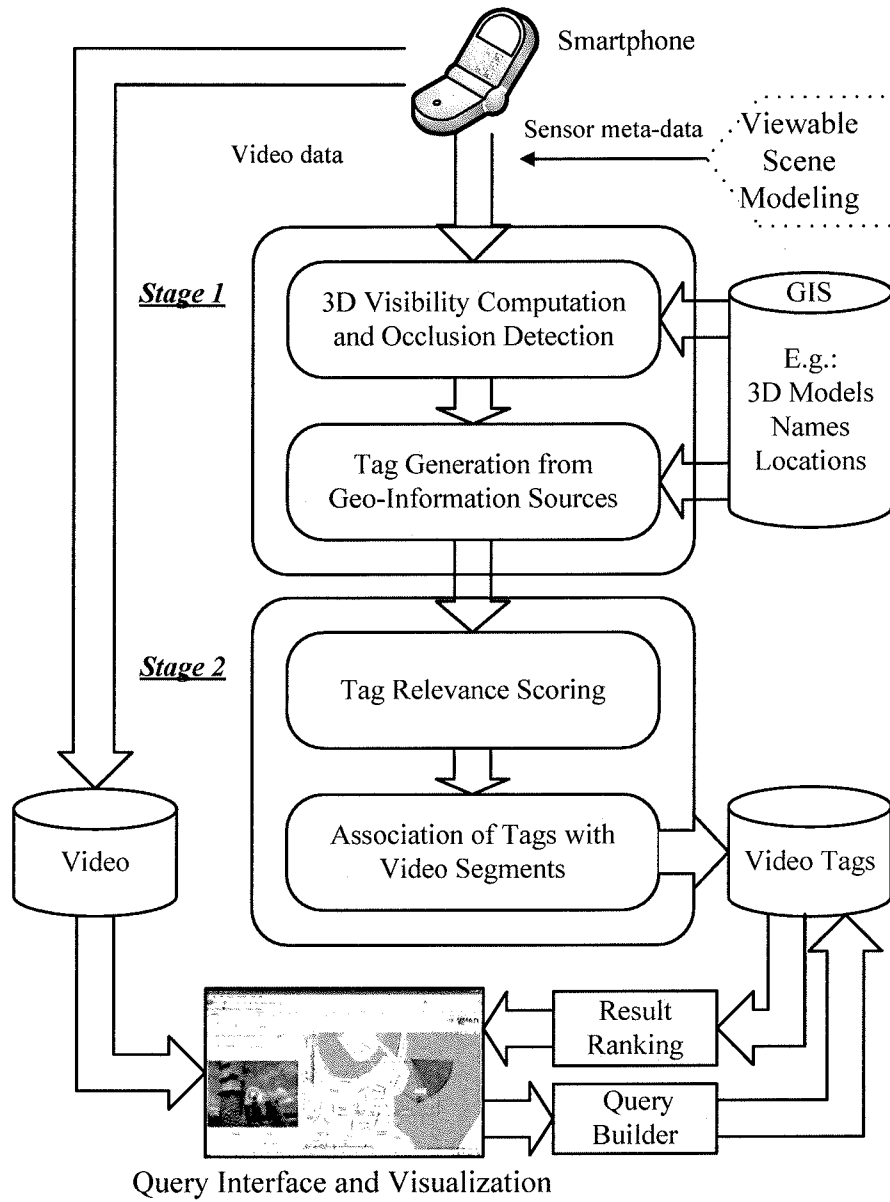


FIG. 14

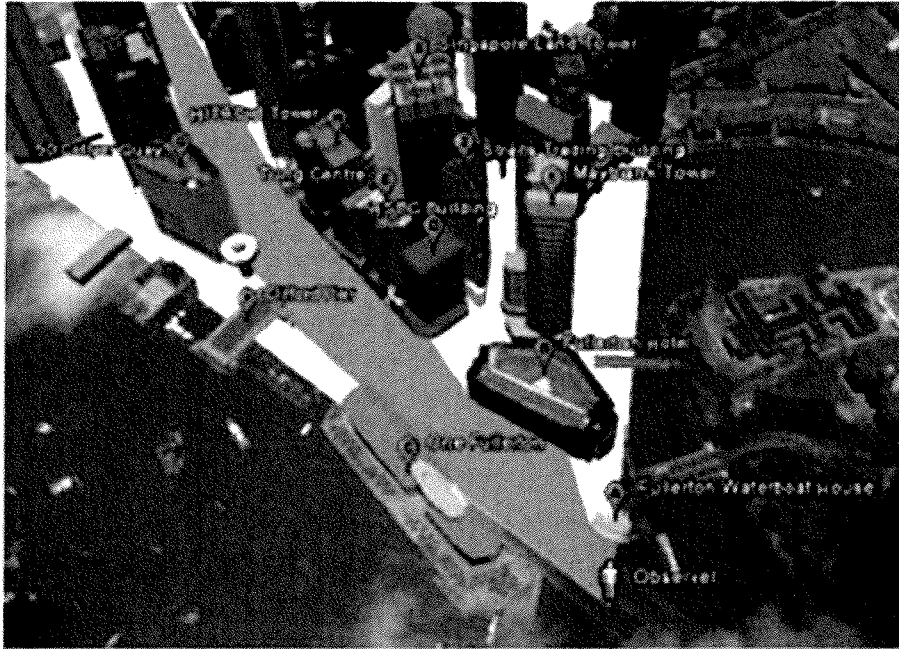


FIG. 15A

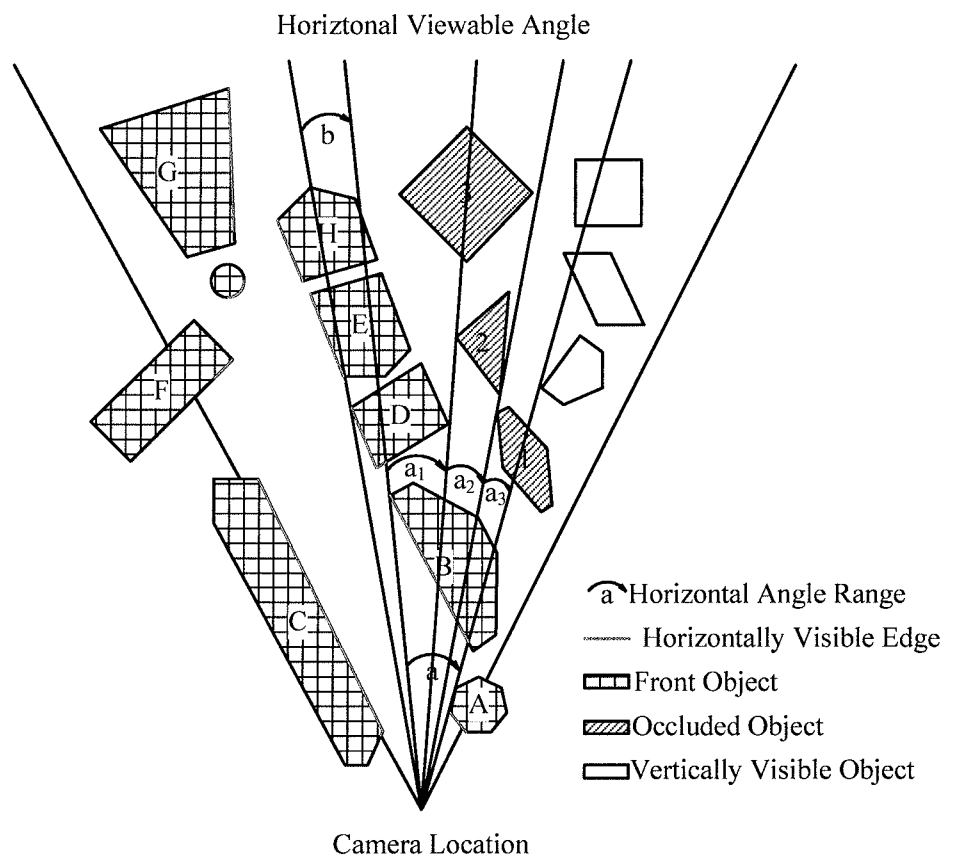


FIG. 15B

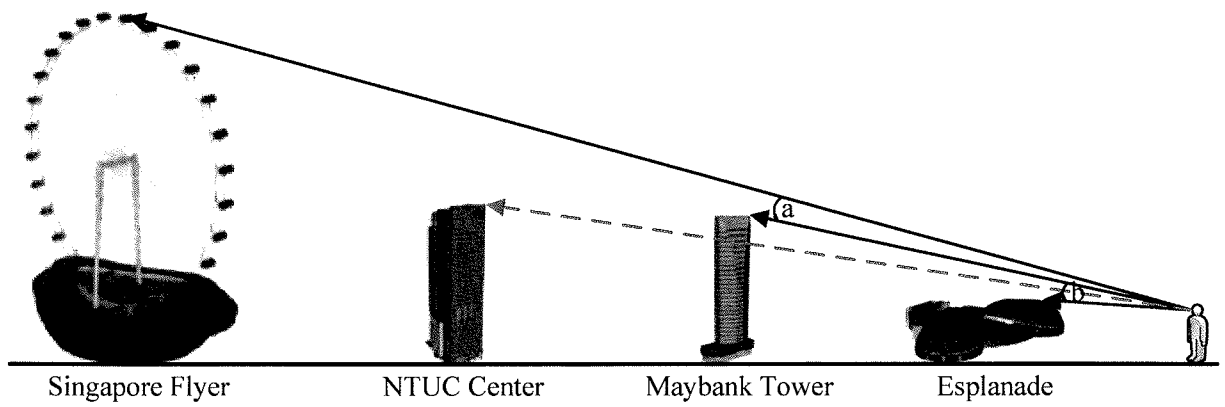


FIG. 16A

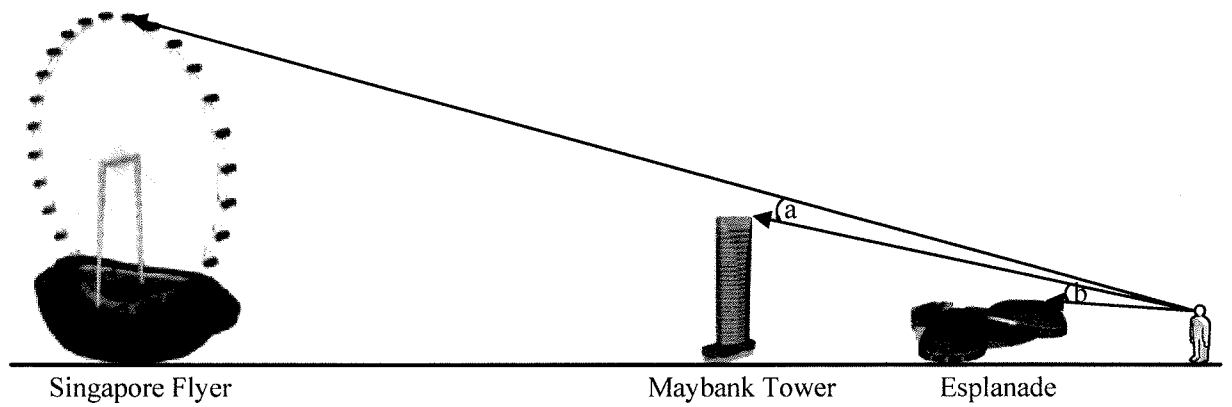


FIG. 16B

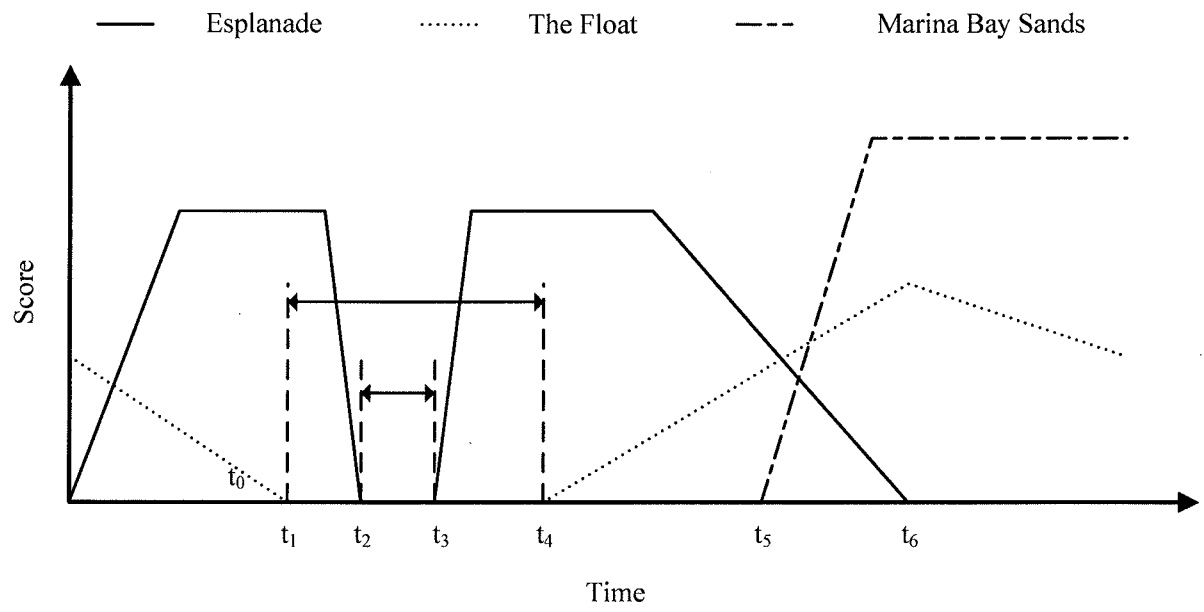


FIG. 17



FIG. 18A

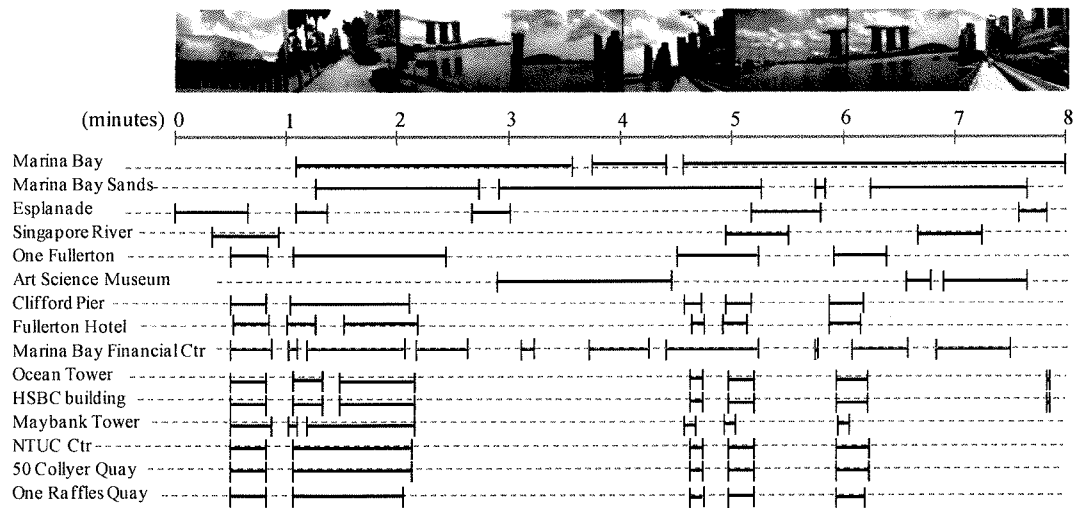


FIG. 18B

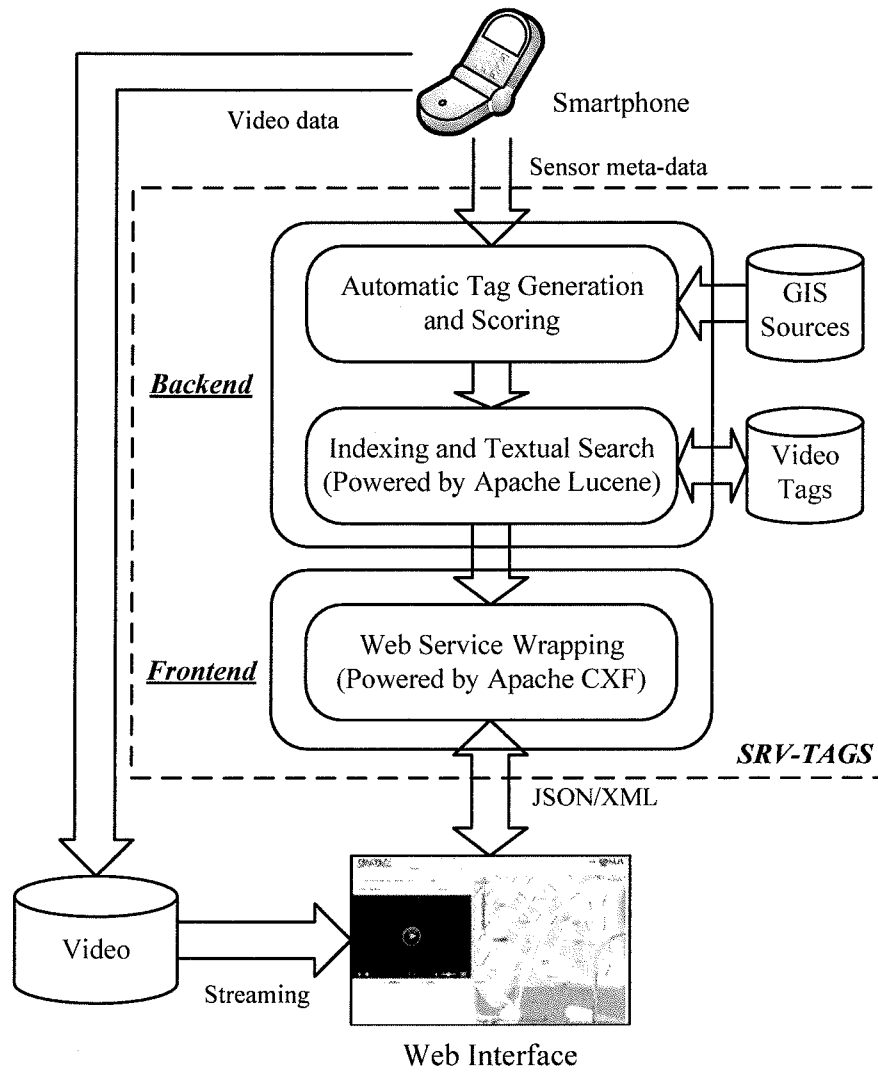


FIG. 19

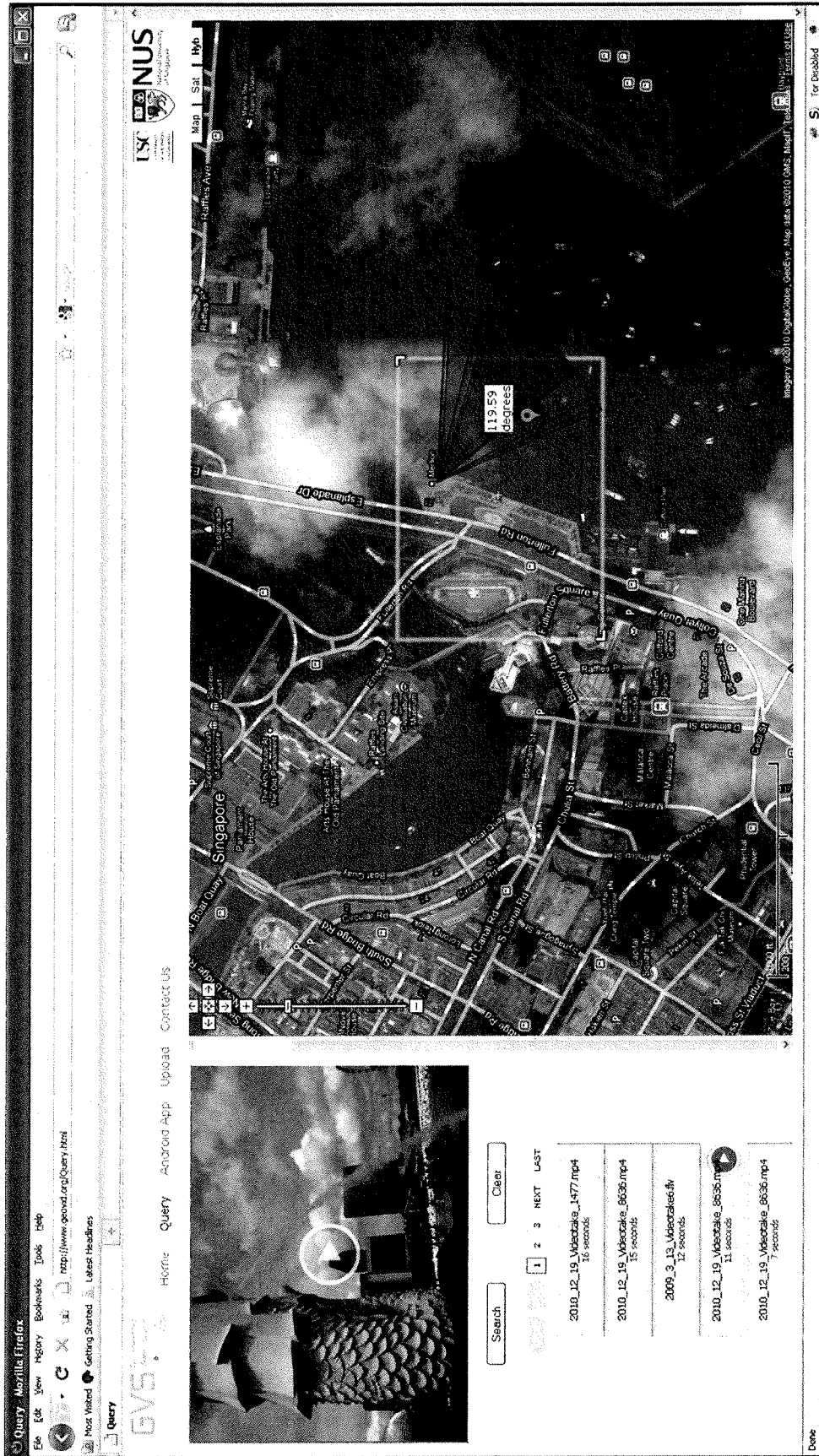


FIG. 20

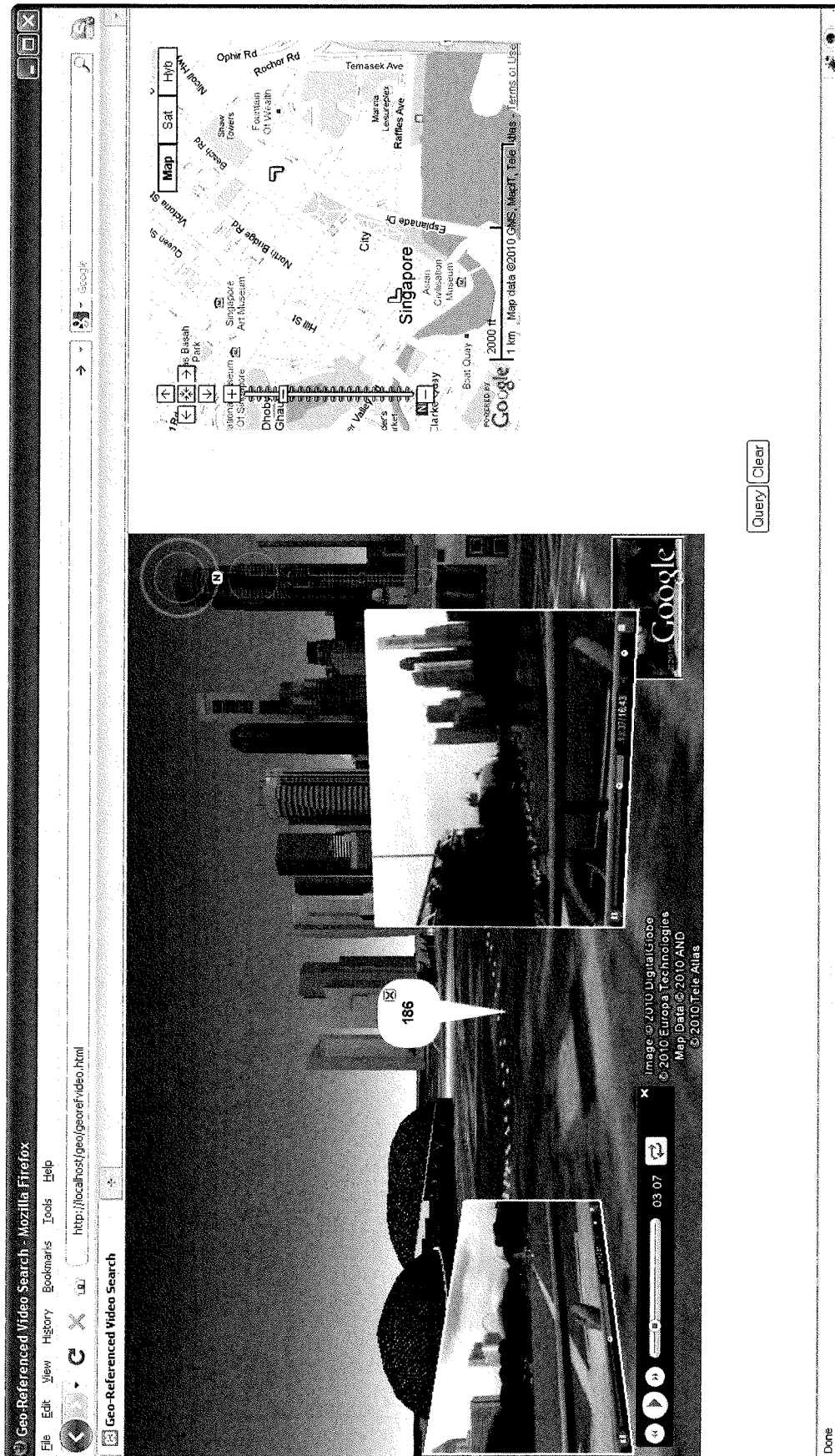


FIG. 21

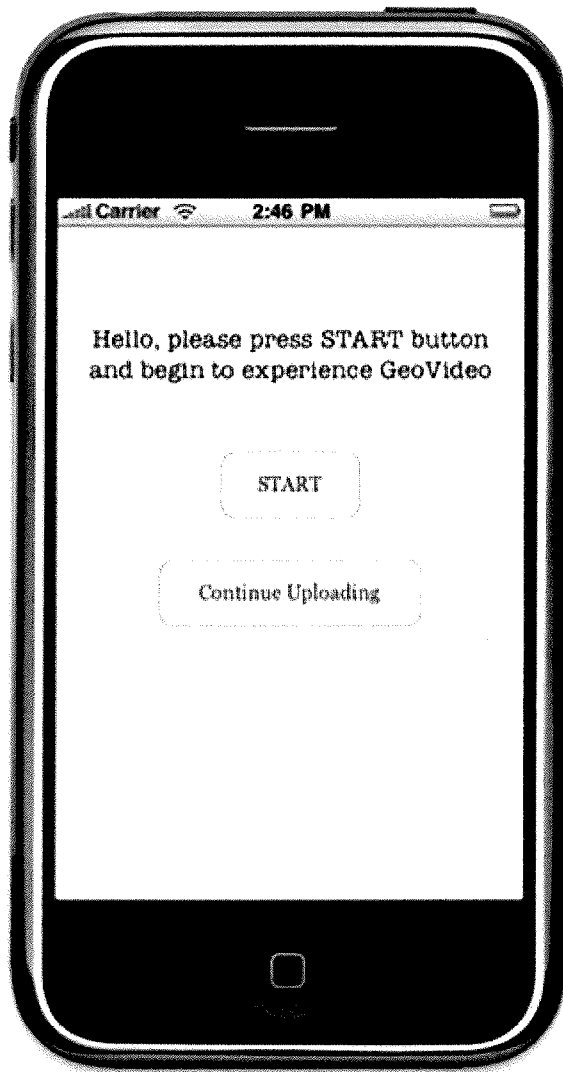


FIG. 22A



FIG. 22B