

Report on Generated Video Samples:

Applied Kernel Density Estimation:

Dynamic Spatiotemporal Analysis of Density Maps on Crime Data

(Note: The data-frame titled "mydata" corresponds to New Haven crimes for 2006.)

Video 1

Title: Stream 1 Bicycle

bmp_stream argument: (50, mydata, 1000, "NewHaven", c(5, 65, 128), 10, 11)

Filter: THEFT- BICYCLES<\$50, THEFT- BICYCLE >\$50

Underlying map: Google Map calibration on boundary points and first two rows.

Video 2

Title: Stream 2 Assault

bmp_stream argument: (100, mydata[3557:], 700, "NewHaven", c(5, 1, 2, 3, 4, 5, 8, 24, 19, 30, 65, 72, 78, 93, 189), 10, 11)

Filter: BURGLARY- APT.-FORCIBLE, ROBBERY- STREET- FIREARM, ROBBERY- STREET- NO WEAPON, ASSAULT W/DANGEROUS WEAPON, BURGLARY- RES.-FORCIBLE, BURGLARY- APT.-FORCIBLE, THEFT- PUBLIC BLDG. >\$50, CRIM MISCHIEF, PRIV PROP, HARASSMENT, CRIMINAL TRESPASS, THEFT- BICYCLES<\$50, SIMPLE ASSAULT, LOITERING, THEFT-CHECKS<\$50, ROVING GANGS.

Underlying map: Google Map calibration on boundary points and first two rows.

Video 3

Title: Stream 3 All

bmp_stream argument: (7000, mydata[3839:], 500, "NewHaven", 0, 10, 11)

Filter: NULL

Underlying map: Google Map calibration on boundary points and first two rows.

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