

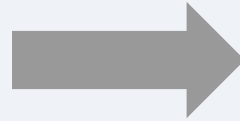
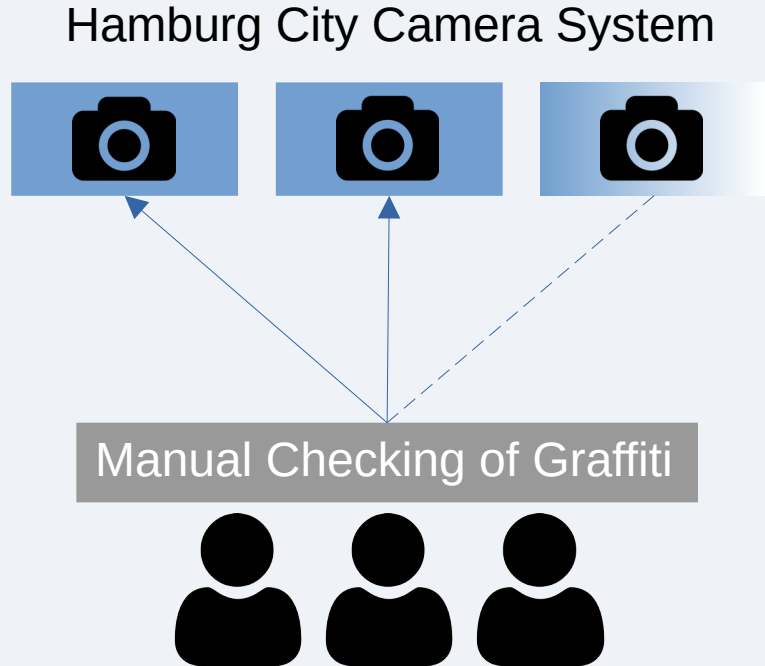


Visual Graffiti Detector(VGD)

For Hamburg Urban City

Tom Ruge
24.10.24

Problem: So Far



- More personnel needed for graffiti detection
- Graffiti inspections are not conducted frequently
- Quality of life decreases due to unremoved graffiti

Solution: Visual Graffiti Detector



No Graffiti

Is Graffiti
High Priority
for Cleanup



- Deep Learning Model(State of the Art)
- Graffiti checking around the clock
- No personnel required
- Metric for priority
- More effective city maintenance
- Data already aquired

VGD: Available Data

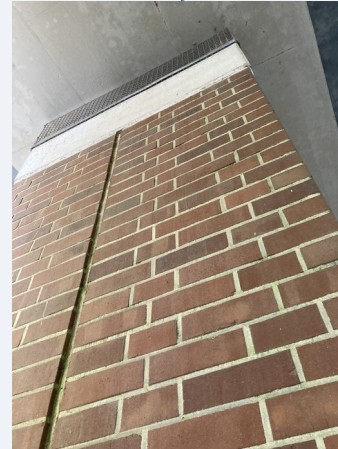
387 non graffiti pictures

Diverse → real world data



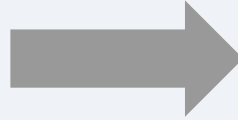
496 graffiti pictures

Diverse → real world data



Benefits for City Hamburg

- Improved Urban Aesthetics
- Increased Property Values
- Enhanced Public Safety
- Deterrence of Vandalism
- Better Resource Allocation
- Support for Tourism



A Happy City!



Contact Information



Tom Ruge

tom01@gmail.com

(+49) 1231 1241213

17.10.24

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