

# Nano-Particle Classification and Detection

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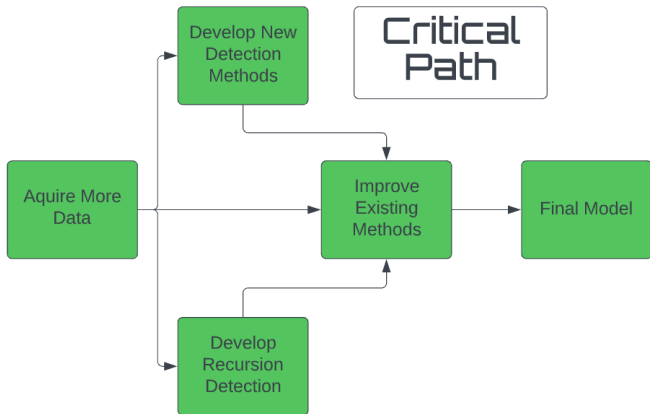
## Overview

Analyzing Different Types of Nanoparticles

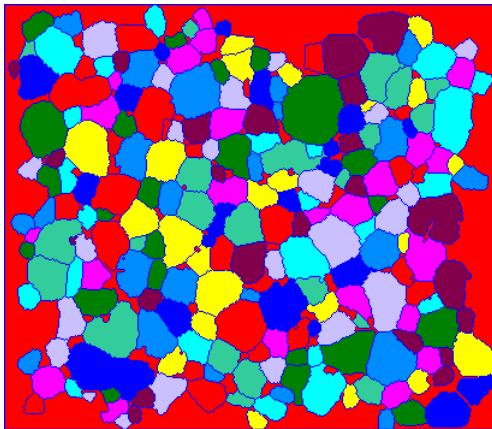
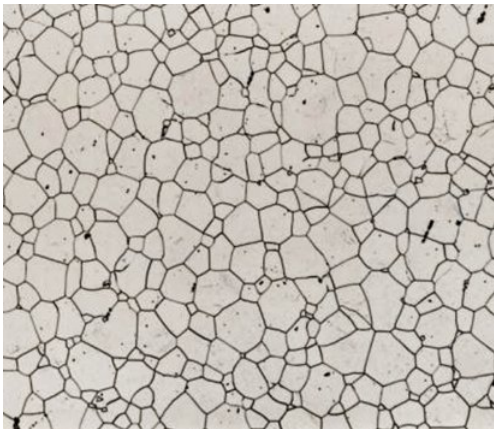
Watershedding Particles

Recursive Image Detection

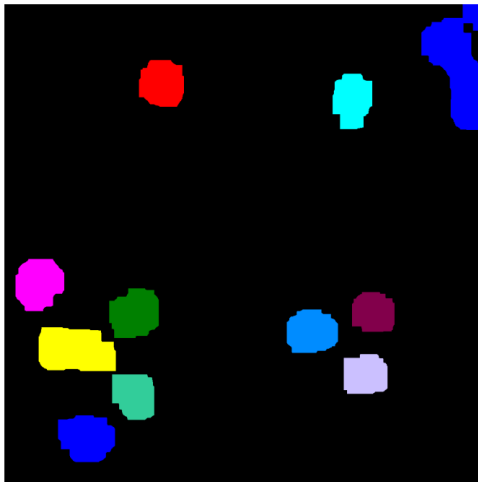
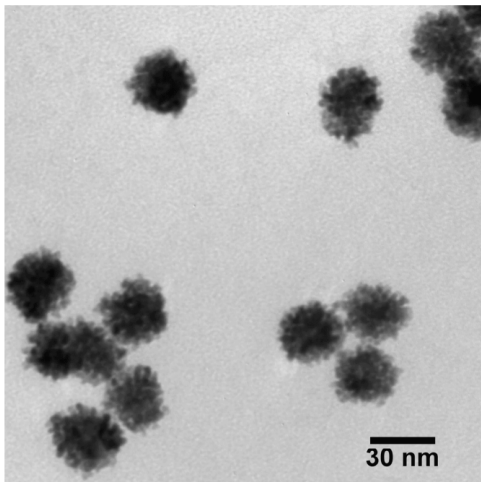
Final Model



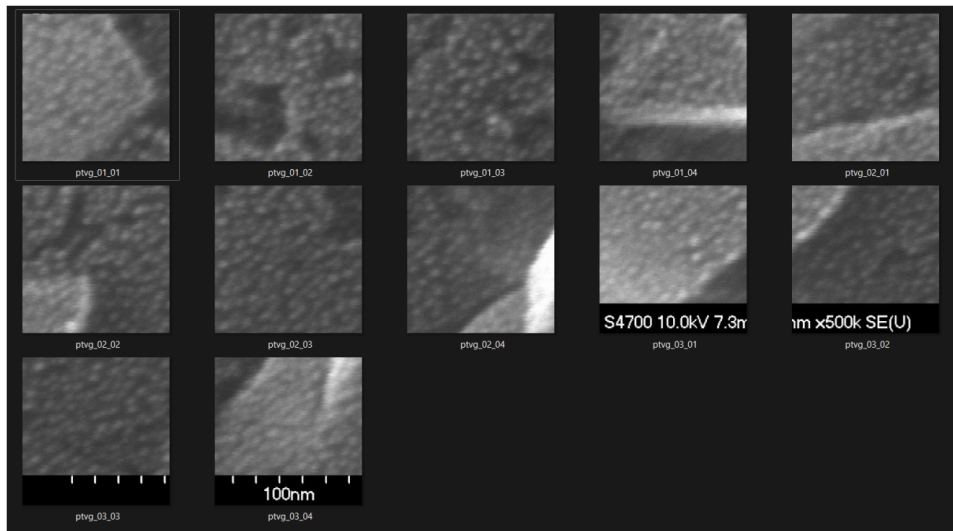
## Grains



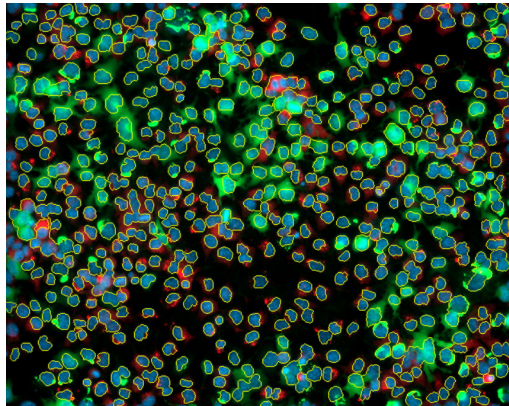
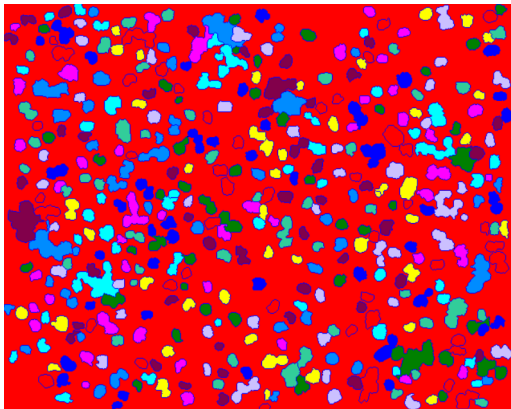
## Black Particles



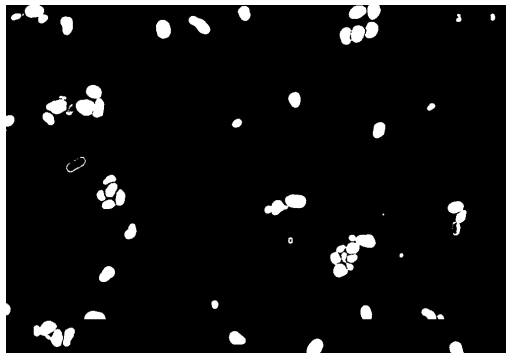
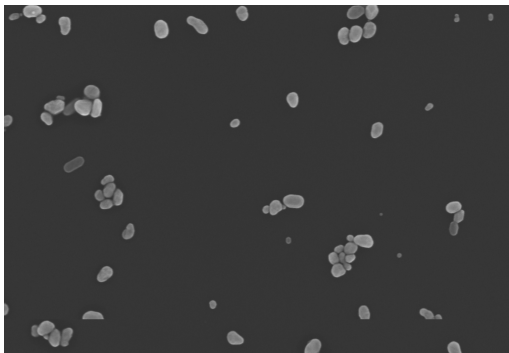
# Split Image

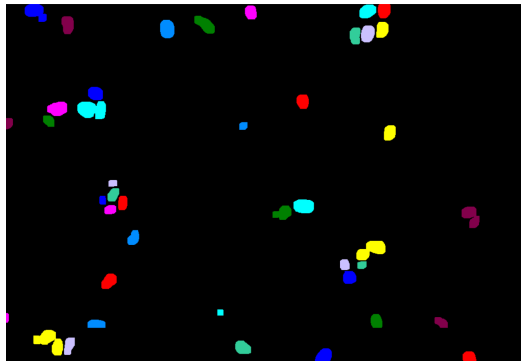


## Watershedding Crowded Particles



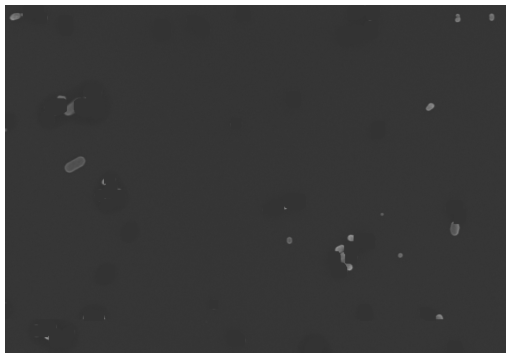
## Short Comings of Automatic Threshold



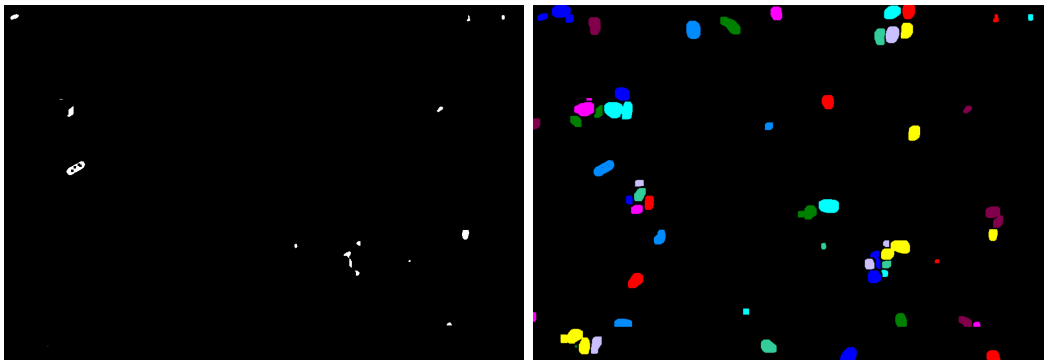




## Blocking Detected Images



## All Particles Detected



## Final Model

Blue = Modeled / Red = Hand-Labeled

