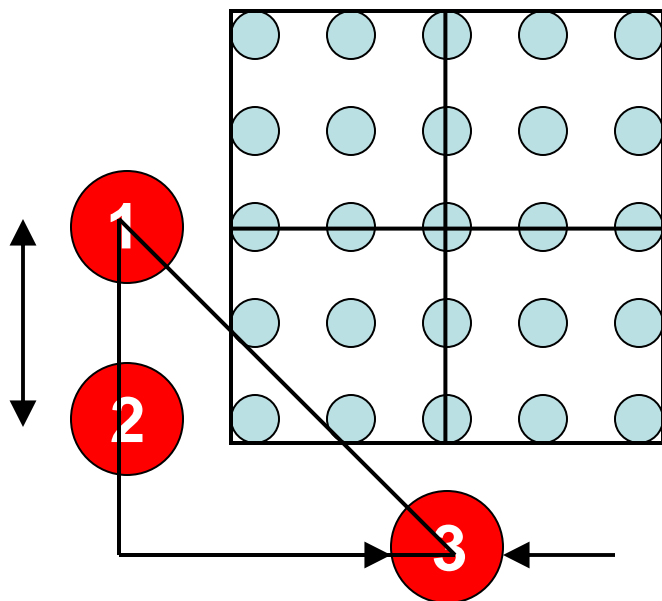


DOMINOES* for Pattern Recognition

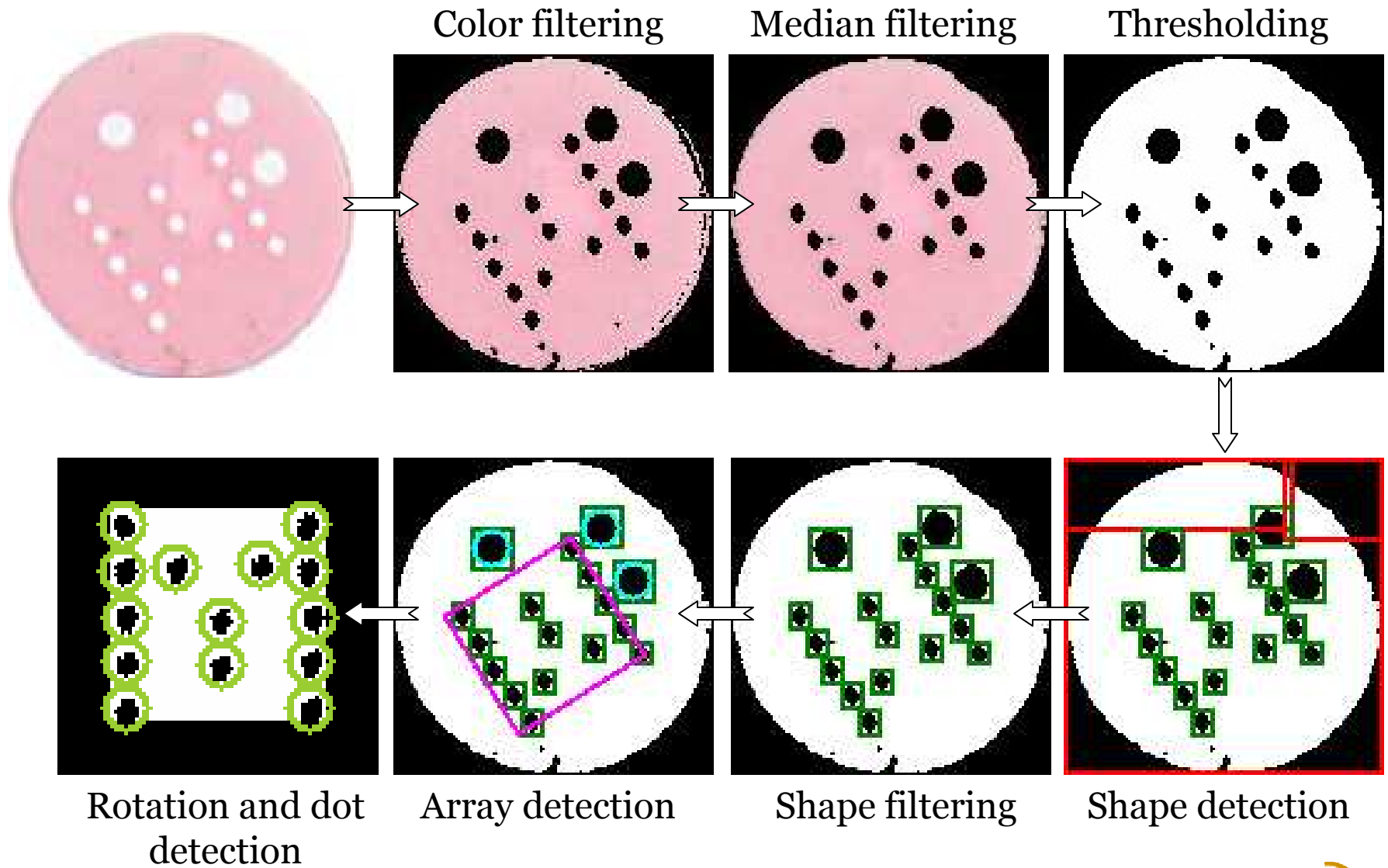


- Information is contained in dot size & spacing
 - Large dot spacing = 2X small dot spacing
 - Large dot diameter = 2X small dot diameter
 - Third dot assists in angle and “mirroredness” determination
 - Placement of dots gives array size

*Dots in an Ordered Matrix with INtegrated Orientation Enhancement System

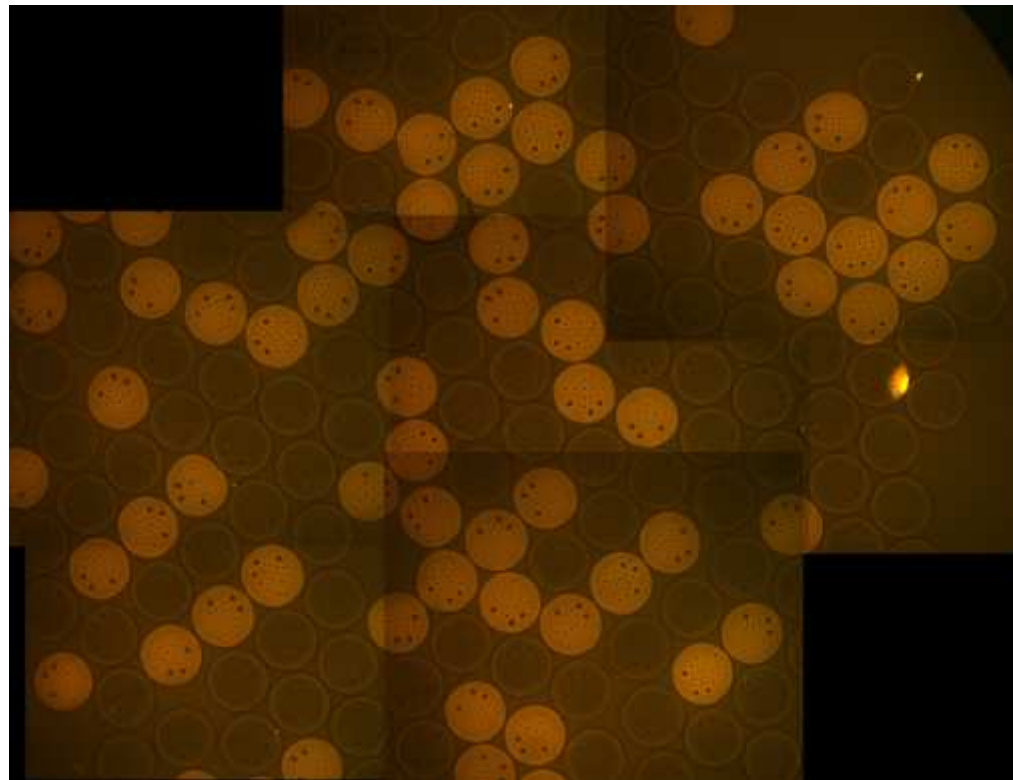


Image Processing & Recognition



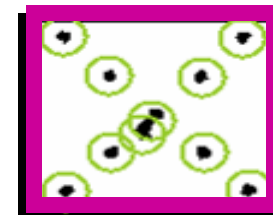
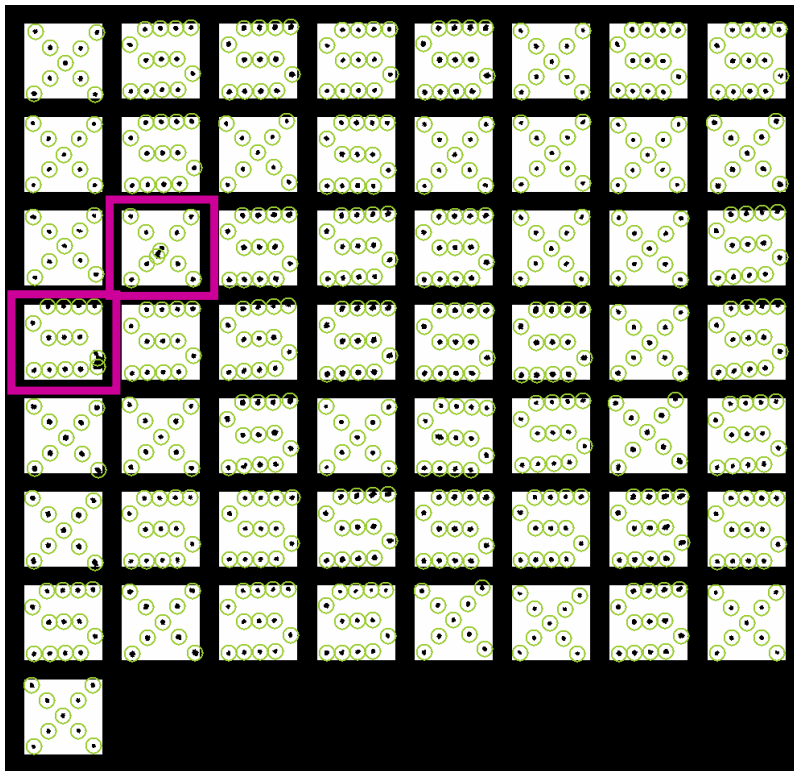
Platform Demonstration

- Self-assembled array with multiplexed and dot-coded sensors
- Contains 58 completely visible sensors



Recognition Results

- 57/58 sensors were found (98.3%)
- 55/58 patterns correctly identified (95.0%)



= error

