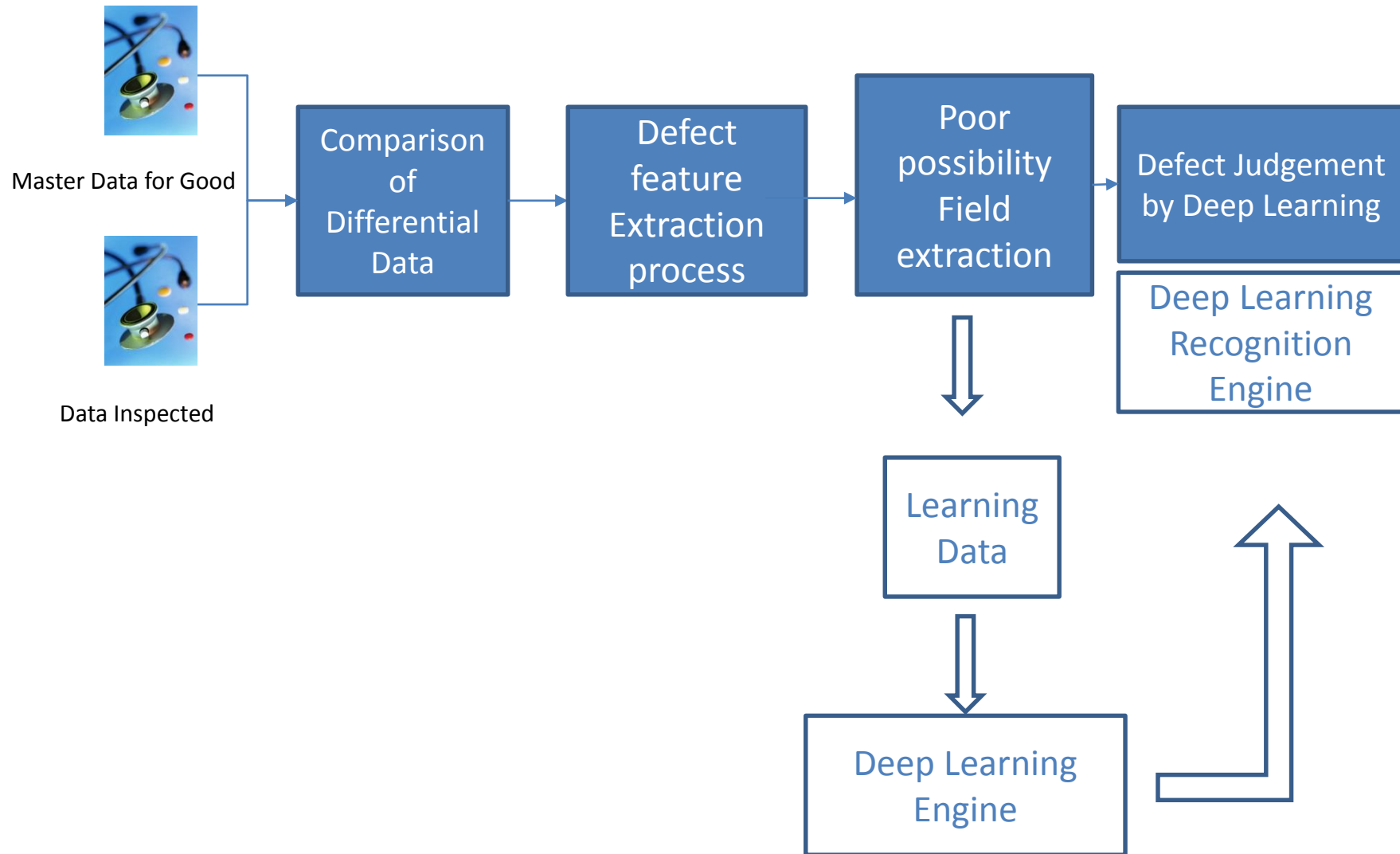


Metal Surface Inspection System

using Image Recognition + Deep Learning

2



Proposed Inspection System

Difficulties to be expected

- specular reflection to mainly occur on a metal based surface
- diffuse reflection to mainly occur on a printed surface



- The diffuse reflection to be observed for printing stains and blurs
- The specular reflection to be observed for metal scratches etc.



「Shooting」

Hybrid method to be applied to shoot simultaneously "diffuse reflection" and "specular reflection" components

Image processing suitable for "diffuse reflection"

Difference with master data

"Regular reflection" (such as scratches) to be detected by Deep Learning

Hybrid Method

