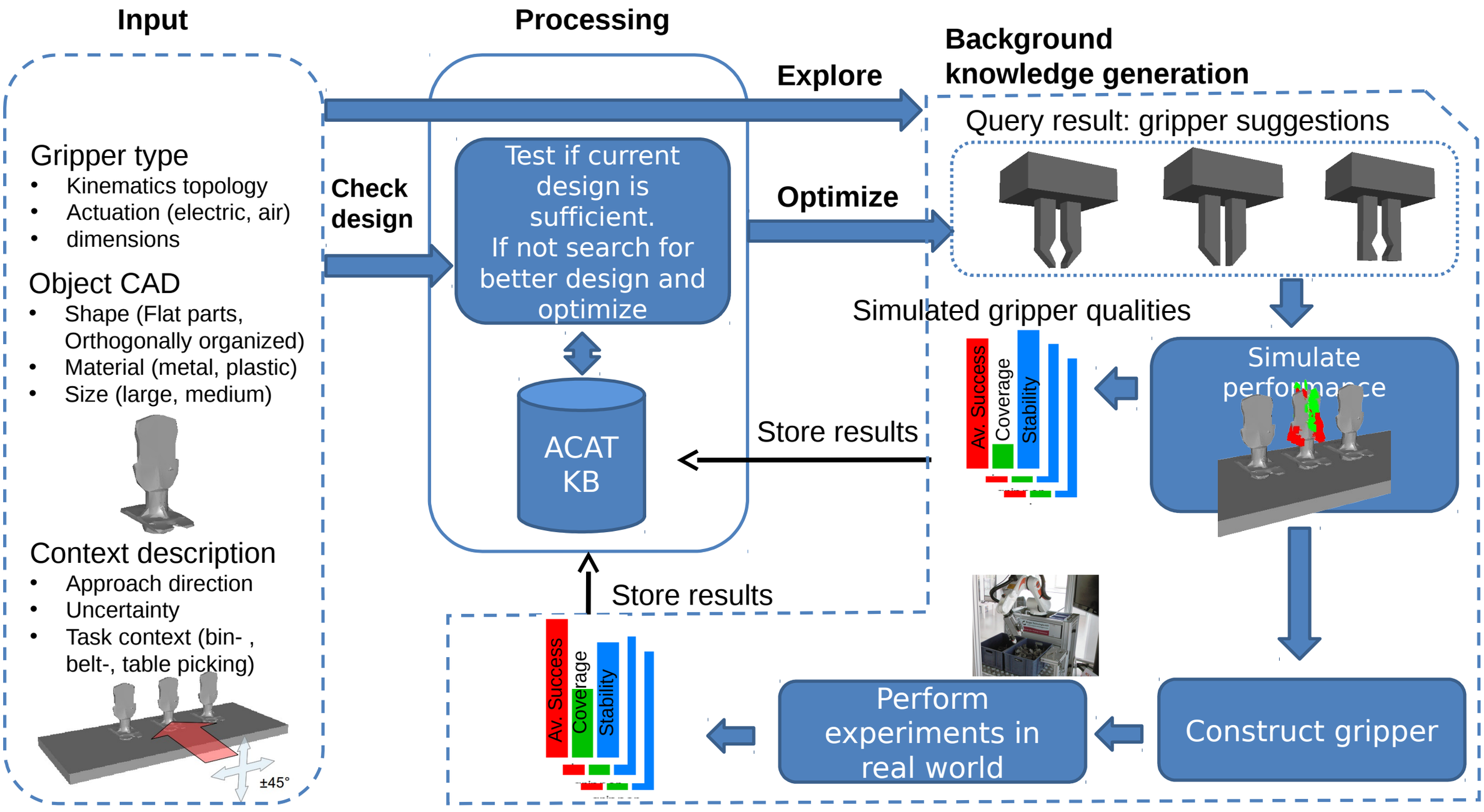
Input
Processing
Background knowledge generation
Explore
Check design
Optimize
Store results
Store results
Gripper type
• Kinematics topology
• Actuation (electric, air)
• dimensions
Object CAD
• Shape (Flat parts, Orthogonally organized)
• Material (metal, plastic)
• Size (large, medium)
Context description
• Approach direction
• Uncertainty
• Task context (bin- , belt-, table picking)
±45°
Test if current design is sufficient. If not search for better design and optimize
ACAT KB
Query result: gripper suggestions
Simulated gripper qualities
Av. Success
Coverage
Stability
Simulate performance
Construct gripper
Perform experiments in real world
Av. Success
Coverage
Stability