Mehr Licht!
More Photonics for Intelligence

#C11

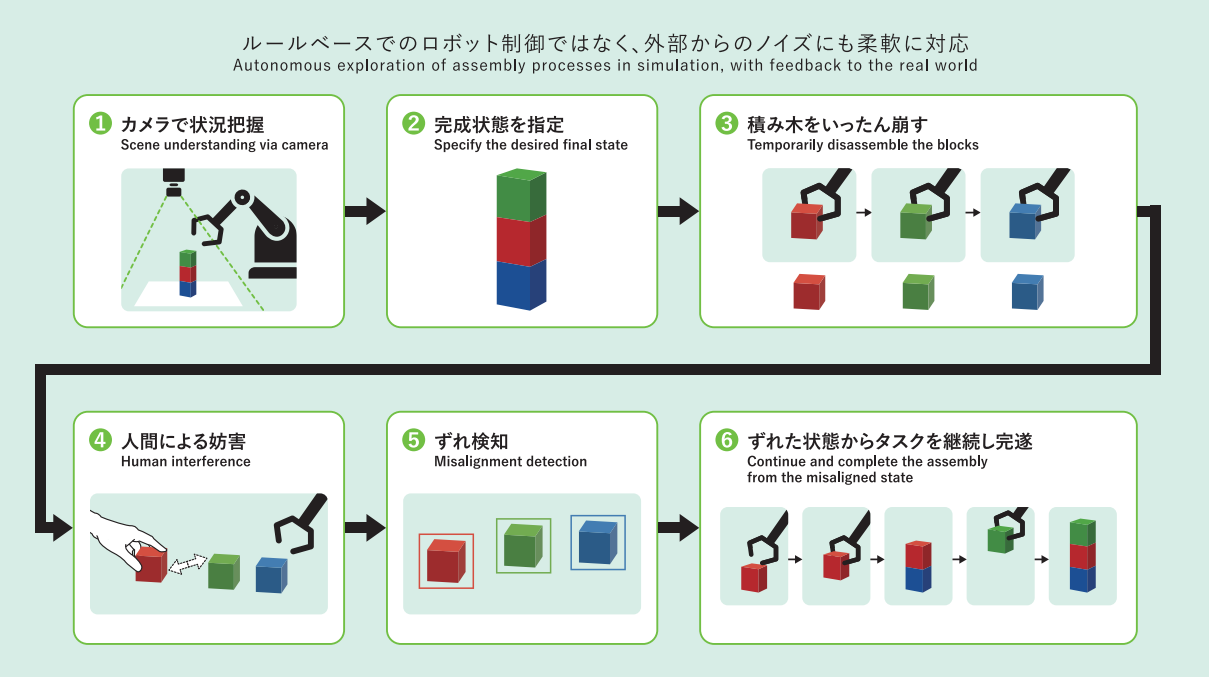
#AI & Quantum Infrastructure#Digital & AI Transformation#Safety and Security

Autonomous Action Generation by VLA & RL

VLA analyzes instructions & situations, and RL generates precise actions

Technical Challenges & Goals

VLA is expected to be used in areas such-as manufacturing, inspections, and maintenance. However, the actions generated by VLA can be unstable, and it's difficult to predict the physical risks. We're attempting to combine VLAs with reinforcement learning to create safe & efficient actions.



Key Technologies

Core Technologies

・VLA turns images and natural language into motions
・Adaptive replanning updates working environment

Key Differentiators

・VLA generates motions from images and language
・Adaptive replanning updates working environment

Use Cases

Manufacturing

In assembly lines, robots use VLA to understand camera images and instructions, generate optimal motions, re-recognize changes with physical AI, replan in simulation, and safely continue flexible collaboration.

Exhibitors
Innovation Technology Department, NTT DATA Group Corporation