

Amigaga-Solution Manual





Human Following⁺

Key Technology:

Human Detection and Tracking,
Robot Motion Control;

Application:

The robot is capable of following
the specified personnel in any
scenario;



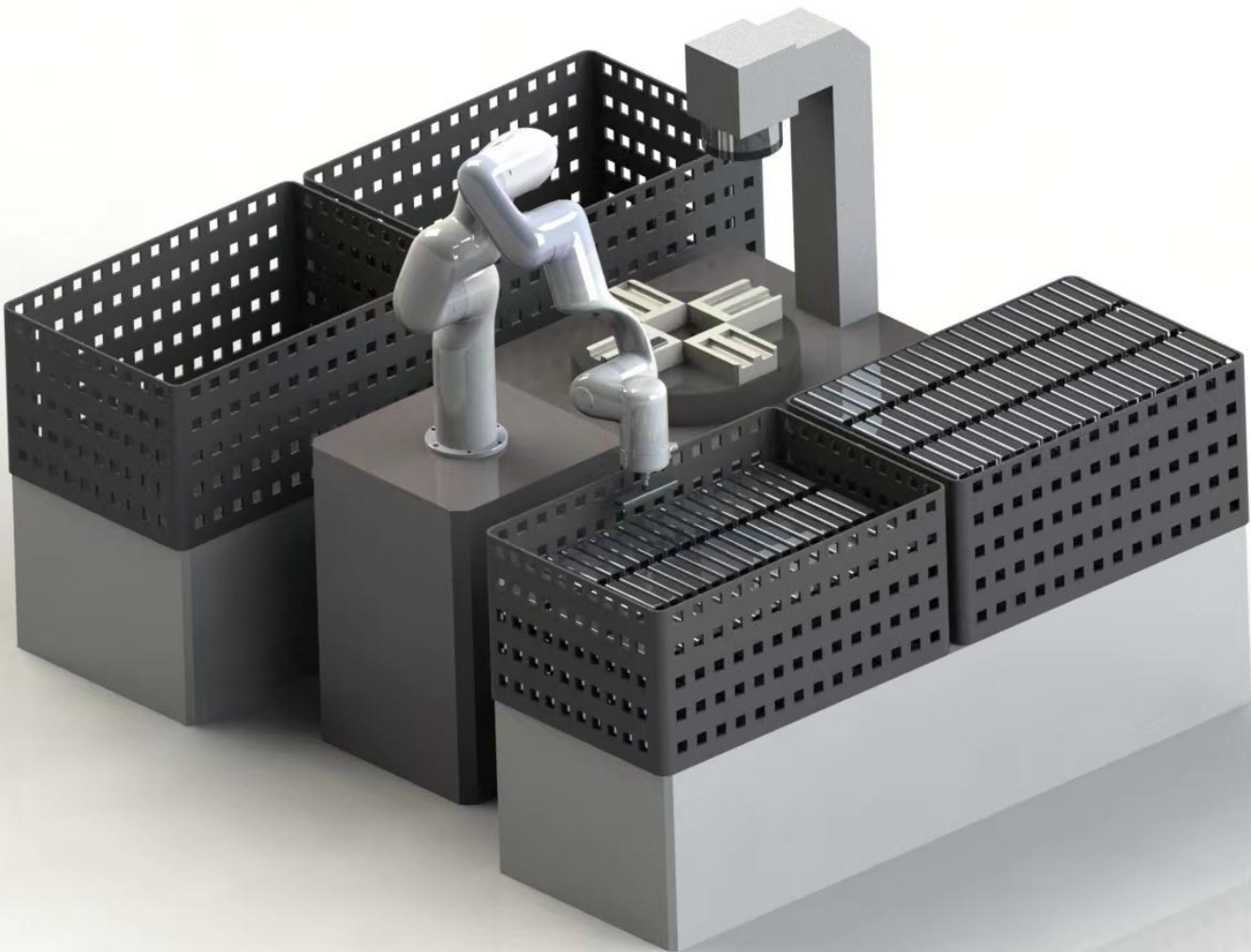
Picking & Sorting

Key Technology:

6D Pose Estimation of the Target Object;

Application:

Object picking, sorting, manipulation etc.;



Indoor Logistics

Key Technology:

Simultaneous Localization and Mapping (SLAM);

Application:

Cargo handling in factories, food delivery in restaurants, garbage disposal for communities;





Robot arm automation process

Key Technology:

Trajectory recording and playback;

Application:

Executing tasks that follows a fixed trajectory, such as factory assembly, welding, loading and unloading;



Mobile collaborative robot automation process

Key Technology:

Accurate Relocalization, Compliance Control;

Application:

Robot is able to move freely, necessary for tasks that require movement between different locations, such as operation and maintenance, cargo handling and transportation, food preparation etc.;



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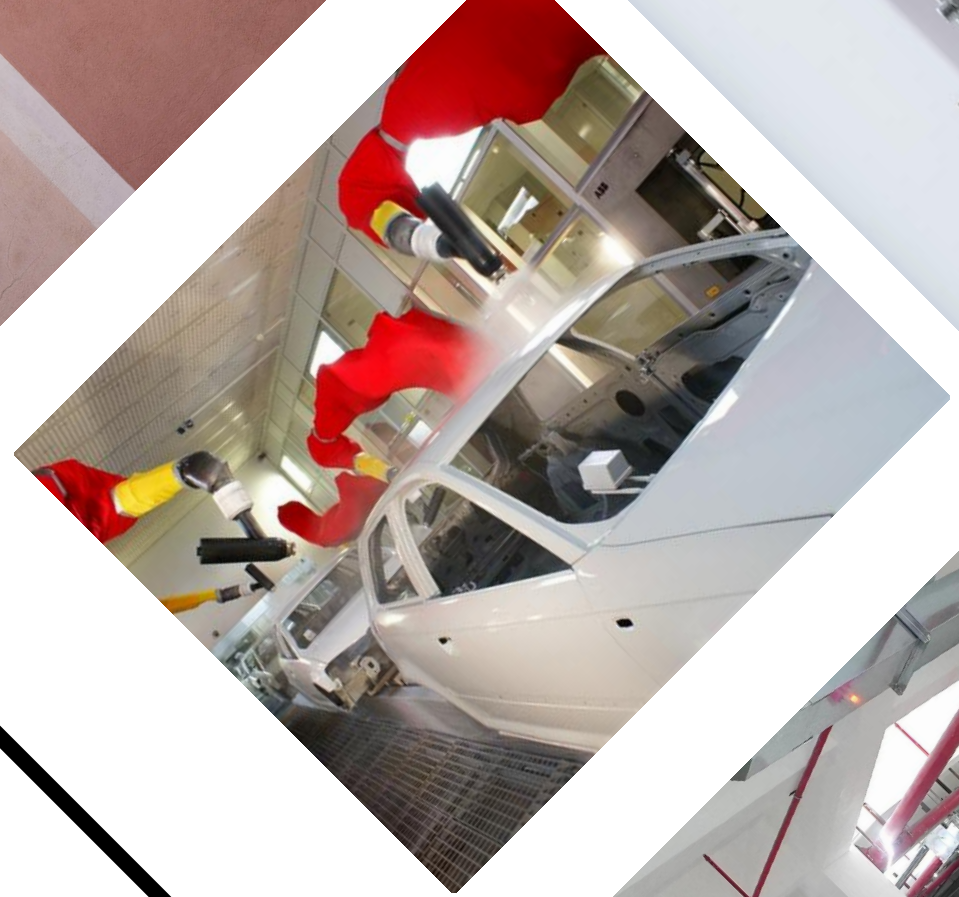
AMIGOO TECHNOLOGY



Painting

Key Technology: 3D reconstruction,
Path Planning;

Application: Spraying a certain substance, e.g.
spraying coating in factory, spraying latex
paint and putty in construction sites, spraying
disinfectant in hospitals etc.;



Polishing

Key Technology:

3D reconstruction、force control、
path planning;

Application:

Polishing object surface for a
smoother surface finish, polishing
factory products, polishing
apartment wall and ground etc.;



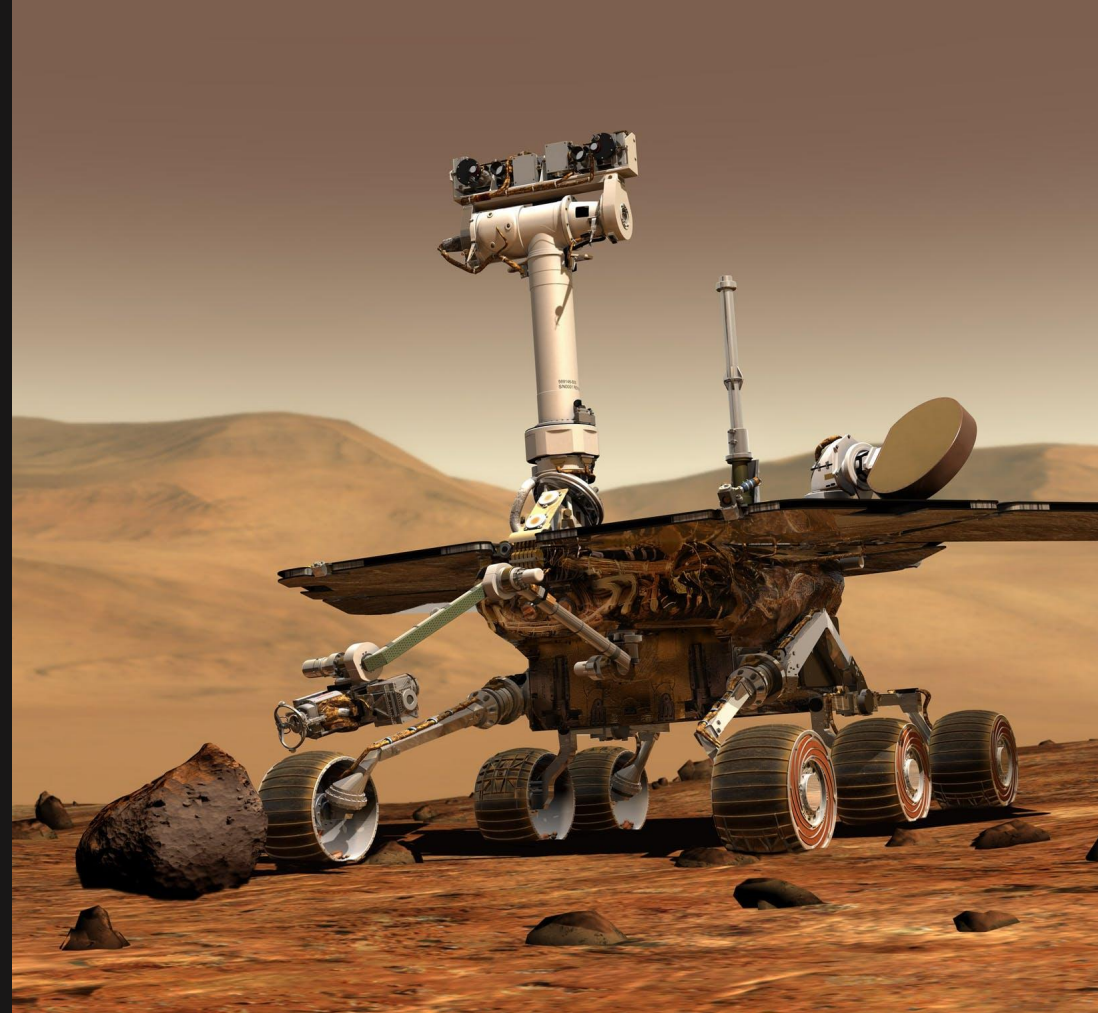
Teleoperation

Key Technology:

5G image transmission, 3D reconstruction, motion control;

Application:


Human operator controls the movements of the robot from a remote distance;







More...


Stay tuned for more solutions.
Contact us if you need our services


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