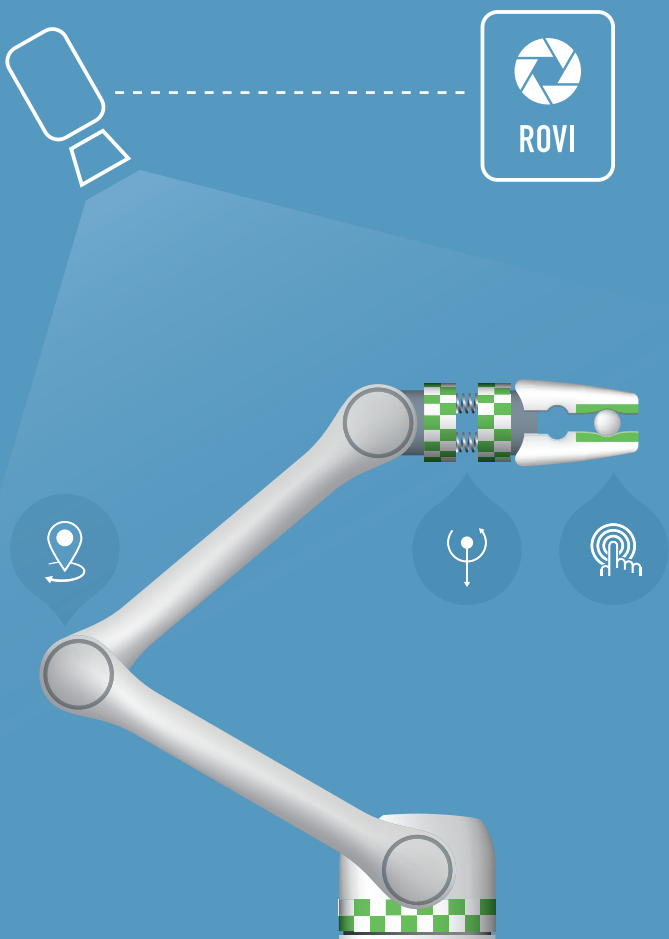




CAMERA-BASED SENSING FOR SMART ROBOTS

EXTERNAL
STANDARD CAMERA

IMAGE ANALYSIS &
CONTROL SOFTWARE




JOINT POSITION &
ROTATION


FORCE &
TORQUE


TACTILE DATA
SENSITIVE GRASPING

TECHNOLOGY



**NO ELECTRONIC
SENSORS NEEDED**



**SOFTWARE REPLACES
HARDWARE**

Our vision is to make intelligent robots available to everyone – to help us with manual work in manufacturing, in the office and at home. This goal necessitates robots with greatly increased sensitivity and perception capabilities, but simplified and cheaper hardware.

ROVI offers an innovative and cost-effective software-based sensor solution to achieve this goal. Our product features rich sensory feedback, providing measurements of joint positions of the robot arm, as well as force, torque and tactile data at the end-effector.

Sensing is performed remotely, using a standard camera connected to our vision software. Complex and costly hardware sensors are replaced by our software, reducing hardware complexity and weight, as well as costs of components, assembly and maintenance.

EXEMPLARY USE CASES



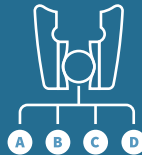
**VERSATILE AND
SENSITIVE GRASPING**



**AUTOMATED INVENTORY
AND PROCESS MONITORING**



**PACKAGING WITH
HIGH FLEXIBILITY**







**COMMISSIONING OF
SMALL PARTS**



SPIN-OFF AT
TECHNICAL UNIVERSITY OF MUNICH

ROVI Robot Vision, c/o TUM
Arcisstr. 21, 80333 Munich, Germany

 www.rovi-robotics.de
 contact@rovi-robotics.de
 @lmtrovi
 lmtrovi

Gefördert durch:



aufgrund eines Beschlusses
des Deutschen Bundestages



Zusammen.
Zukunft.
Gestalten.