

DFKI Bremen

Robotics Innovation Center (RIC)

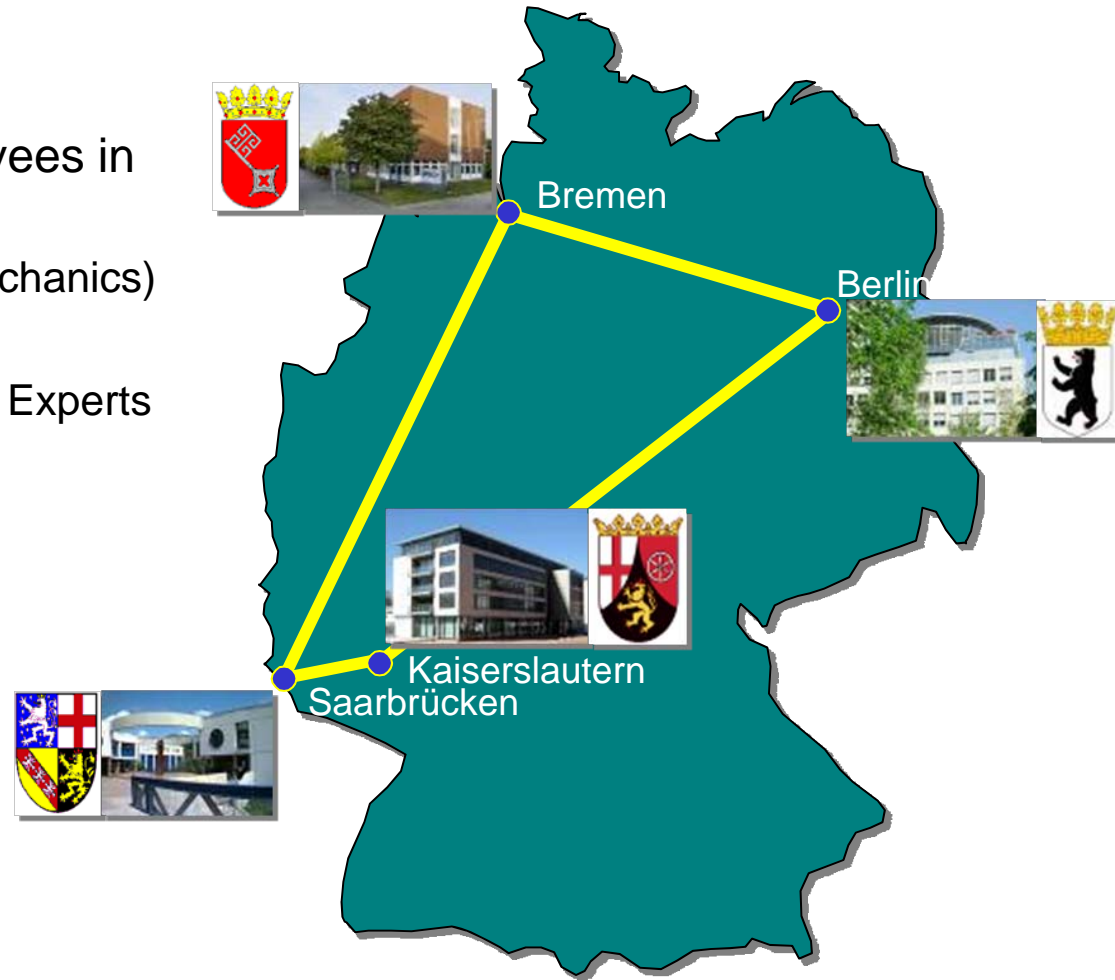
Dipl.-Ing. Jose de Gea Fernández

Prof. Dr. Frank Kirchner
<http://www.dfki.de/robotics>
robotics@dfki.de





- DFKI Bremen
- More than 50 full-time employees in Bremen
 - Engineers (Electronics, Mechanics)
 - Computer Scientists
 - Electronics and Mechanics Experts
 - Technicians
- Labs
 - Underwater Lab
 - Space Robotics Lab
 - Outdoor Test Facilities
 - Simulations-“Cave“
 - Logistics Lab





Cognitive
Robotics



Underwater



Space



Logistics and
Production



Security

SemProM (Logistics&Production Robotics)

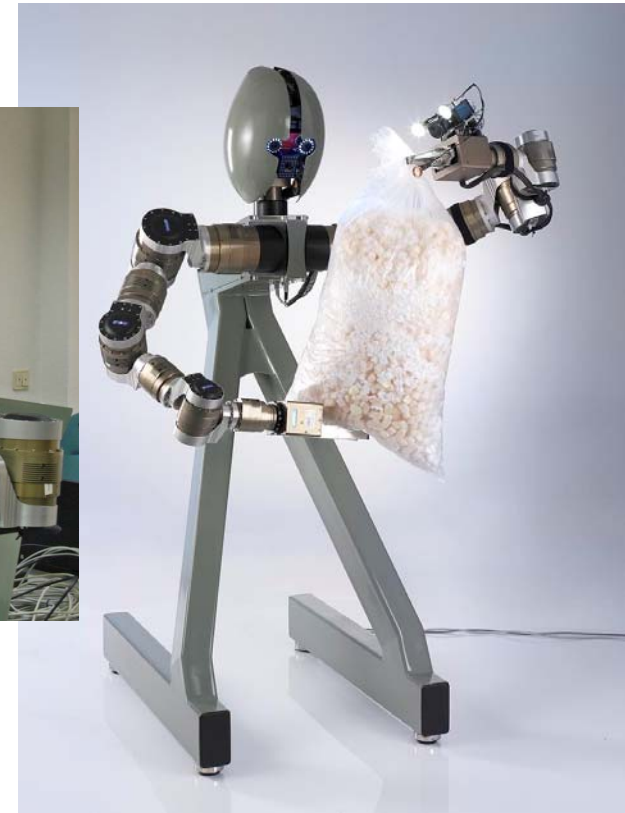
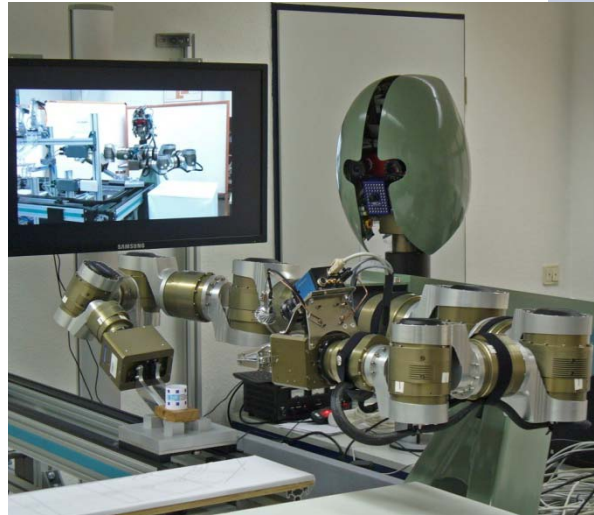


- Flexible mobile dual-arm manipulator design for its deployment in a production scenario

Vision



Current State





- Production: Flexible and adaptive robots for SMEs
 - Smart robots for small-scale production lines
 - Close cooperation of robots with workers
 - Multimodal and intuitive methods for re-programming (e.g. learning by guidance, language, gestures...)
 - Autonomous handling enabled by smart environments (e.g. SmartFactory)
 - ***Project idea: Smart robots in the food industry***
- Logistics: Autonomous handling
 - Autonomous packing and unpacking
 - Handling of non-standard packages (e.g. coffee-sacks)
 - ***Project idea: Autonomous robot for unloading containers***

Contact:

Dr. Thomas Vögele

DFKI Bremen Robotics Innovation Center (RIC)

Robert-Hooke Str. 5

28359 Bremen

+49.421.218-64130

thomas.voegele@dfki.de

Dipl.-Ing. José de Gea Fernández

DFKI Bremen Robotics Innovation Center (RIC)

Robert-Hooke Str. 5

28359 Bremen

+49.421.218-64112

jose.de_gea_fernandez@dfki.de