Hochschule Ulm University of Applied Scheness

SmartSoft SmartMDSD

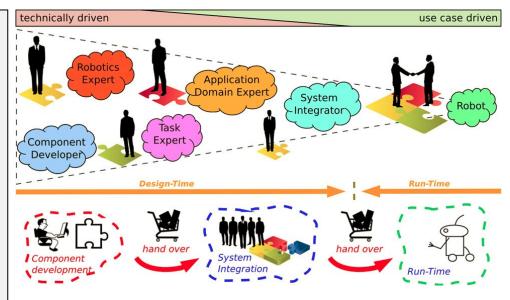
Open Source Integrated Model-Driven Development Environment for Robotics Software

Vision: Create a business ecosystem for robotics software. Customers, lead producers, competitors, and other stakeholders are nodes in networks of relationships and are constantly co-evolving. Participants range from researchers over robotics professionals to system integrators and application domain experts as well as end users.

Approach: Service-oriented software component model and model-driven toolchain to support separation of roles and composability.

Tools: Model-driven tools for component developers, system integrators and professional end users. Automatic generation of component hulls for wrapping your algorithms and ensuring system level composability. Component selection guide for system integrators.

Component Repositories: Navigation, Vision, HMI, Task Coordination, Manipulation, and many more



 A structured approach (separation of roles) to manage software efforts and system complexity in building your real world robotic applications

(The SmartSoft Approach)

- An integrated toolchain (model driven software development) that realizes this approach and supports your system development (The SmartMDSD Toolchain)
- A set of reusable software components for localisation, navigation, mobile manipulation, task coordination, human robot interaction, object recognition and many more for immediate reuse in your applications (Components)

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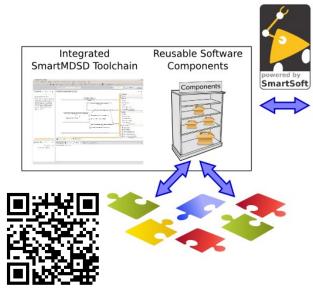
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SmartSoft SmartMDSD

add components.

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