



UNIFIED ROBOTICS FRAMEWORK

INTRODUCTION

In every robot developed in ASoRo lab, it is powered by the Unified Robotics Framework (UROF). UROF is a lightweight configurable operating system that coordinates the workings of robots & intelligent systems.

FEATURES

- + **Business logic and module coordination can be modeled in XML scripting language**
 - + **Enhancement of intelligence through plug-ins:** Algorithm can be packaged as plug-in for higher intelligence
 - + **Configurable GUI:** New module and its monitoring interface can be configured in a XML setting file
 - + **Scalable:** Easy configuration for different complexities, such as from a single robot to multi-robots with tight relationships
 - + **Flexible:** Control and coordination can be implemented in XML script, or by high efficient plug-ins
 - + **Ease of use:** Easy installation/configuration/scripting & no any other software/lib needed
 - + **Process Manager:** To monitor, log and recover software and hardware errors
- Platform Independent (Windows, Linux, Mac,...)

POTENTIAL APPLICATIONS

Advance Robotic Applications (e.g. Receptionist Robot)
Multiple Robots (e.g. Robot soccer team)
Smart Home/Office that needs robots and intelligent devices