

MSc Thesis Proposal – Navigation control of a multipurpose assistive

robot vehicle the walking-aid robots can be classified in two main groups according to the m
walkers (driven by a servo motor) and passive-type walkers (driven by a servo brake). However, the p
by means of a fixed length and stiffness aluminum stick and cannot be customized depending on the
and environmental conditions. From those researches, a special focus has done in terms to increa
interaction, sensing and control to facilitate the perception of the environment for a better guidance a
support to avoid falling down. However, dynamic physical support, the adaptability to the user/task r
design concept has scarcely studied.

For this purpose, at Karlstad University, a multipurpose human-friendly robot for assisting elderly persons (e.g. walking-

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