

Automation Laboratory University of Mannheim, Germany

Areas of expertise:

- Medical and rehabilitation engineering
- Autonomous systems
- Process control and dependability
- Decision support

Prof. Dr. Badreddin

Email: badreddin@ti.uni-mannheim.de

Phone: +49 (0) 621 181 2740



Ambient Assisted Living for the Ageing Society, 31/01/06

Prof. Badreddin – badreddin@ti.uni-mannheim.de

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Suggestion for proposal: AMIVITAL

Strategic goal:

Mobility enhancement and cognitive support for elderly individuals through centralised / decentralised intelligent devices

Our approach is based on the:

- a) Development of an ambient assistance system composed of central and decentral intelligent devices.
- b) Development of a wheelchair with user-intention estimation as well as safety functions, environmental mapping, navigation, and activity planning capabilities.
- c) Development of a context-aware adaptive user interaction.

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Intelligent Central Video Assistance



Intelligent “Aibo”

Communicate, Monitor, Entertain, ...



Health Monitoring, Mobility-Aid

