

Behavior Modeling for Ambient Assistance

Judith Michael, Volodymyr Bolshutkin, Stefan Leitner, Heinrich C. Mayr

Department for Applied Informatics / Application Engineering

Alpen-Adria-Universität Klagenfurt

Klagenfurt, Austria

{judith.michael, stefan.leitner, heinrich.mayr}@aau.at, vboshut@edu.uni-klu.ac.at

Abstract - This paper reports on research within the project **HBMS - Human Behavior Monitoring and Support** - which aims at compensating cognitive deficiencies within the context of **Ambient Assisted Living**. Modeling of human everyday life behavior is crucially dependent on user-involvement, i.e. requests an appropriate easy-to-understand modeling language. The paper introduces such a language, exhibits the meta-model of that language and discusses the concept of a **Human Cognitive Model** from which knowledge units may be derived within a concrete support situation. As a proof of concept a tool prototype will be sketched. As such the paper addresses areas of **Knowledge Management and Ambient Assisted Living**, the latter related to **Healthcare Systems**.

Keywords-component; Healthcare Information System; Elderly in-home assistance; Modeling of Behavior; Meta-Modeling; Model Integration

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