

Title: DANTE: a dynamic video-based monitoring and annotation platform for autism intervention

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DANTE (Dynamic annotation system for smart environments) is being employed within Michelangelo, which is an EU funded Project, to provide video-based monitoring and data annotation tools as an aid for autism intervention. The Michelangelo Project aims to provide personalised therapies for children with autism based on data collected through QEEG, audio, video and other pervasive sensors. A challenge within the Project exists in understanding and describing the QEEG captured. Central to DANTE are a set of bespoke annotation tools that can be used to efficiently review captured footage and to label significant events. Within Michelangelo, the DANTE annotation tools are being used to describe patterns captured from the QEEG and the other environmental sensors. This presentation presents the rationale for the system, introduces its flexible architecture, outlines its previous application with smart environments and describes, in detail, its planned application with the Michelangelo Project.