

## Accepted Manuscript

Adding sensor-free intention-based affective support to an Intelligent Tutoring System

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**Highlights**

- A sensor-free affect-aware intelligent tutoring system (ITS) is presented
- The ITS is able to adapt feedback to positively affect pleasure, arousal or dominance
- The system does not use a specific emotion detection system during operation
- Results show that the level of scaffolding influences the subject's affective state
- An experiment in a real educational setting led to statistically significant results

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