

Accepted Manuscript

DEICTIC: a Compositional and Declarative Gesture Description based on Hidden Markov Models

Alessandro Carcangiu, Lucio Davide Spano, Giorgio Fumera, Fabio Roli

PII: S1071-5819(18)30508-1
DOI: <https://doi.org/10.1016/j.ijhcs.2018.09.001>
Reference: YIJHC 2241



To appear in: *International Journal of Human-Computer Studies*

Received date: 1 June 2017
Revised date: 4 June 2018
Accepted date: 1 September 2018

Please cite this article as: Alessandro Carcangiu, Lucio Davide Spano, Giorgio Fumera, Fabio Roli, DEICTIC: a Compositional and Declarative Gesture Description based on Hidden Markov Models, *International Journal of Human-Computer Studies* (2018), doi: <https://doi.org/10.1016/j.ijhcs.2018.09.001>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Research Highlights

- Declarative composition of HMMs for recognizing stroke gestures.
- Support for sub-gestures identification and prediction.
- Supports the implementation of feedback and feedforward with an effort comparable to heuristic approaches, together with a definition procedure and accuracy comparable to machine learning approaches.
- High accuracy in recognising composite gestures training only the primitives.

Download English Version:

<https://daneshyari.com/en/article/10139248>

Download Persian Version:

<https://daneshyari.com/article/10139248>

[Daneshyari.com](https://daneshyari.com)