



Sichtbarkeit fördern - Persönliche Publikationslisten als hochschulweiter Dienst

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Anforderung

SFB 673 „Alignment in Communication“

- Sichere, effektive und transparente Sammlung und Verbreitung von noch nicht veröffentlichten Forschungsbeiträgen im Rahmen einer Begutachterbegehung

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Adaptive Expressiveness – Virtual Conversational Agents That Can Align to Their Interaction Partner

Authors: Buschmeier, H., Bergmann, K., & Kopp, S.

Organizational Units: B1: Speech-gesture alignment

Abstract: Speakers in dialogue tend to adapt to each other by starting to use similar lexical items, syntactic structures, or gestures. This behaviour, called alignment, may serve important cognitive, communicative and social functions (such as speech facilitation, grounding and rapport). Our aim is to enable and study the effects of these subtle aspects of communication in virtual conversational agents. Building upon a model for autonomous speech and gesture generation, we describe an approach to make the agent's multimodal behaviour adaptive in an interactive manner. This includes (1) an activation-based microplanner that makes linguistic choices based on lexical and syntactic priming, and (2) an empirically grounded gesture generation such that linguistic priming parallels concordant gestural adaptation. First results show that the agent aligns to its interaction partners by picking up their syntactic structures and lexical items in its subsequent utterances. These changes in the agent's verbal behaviour also have a direct influence on gestural expressions.

Fulltext:



[aamas2010-paper-cameraready_FINAL.pdf](#)

Confirmation:



[Confirmation-AAMAS2010-Acceptance-Buschmeier-Bergmann-Kopp.pdf](#)

Suggested Citation: Buschmeier, H., Bergmann, K., & Kopp, S. (in press). Adaptive Expressiveness – Virtual Conversational Agents That Can Align to Their Interaction Partner. In W. van der Hoek, G. Kaminka, Y. Lespérance, M. Luck, & S. Sen, *9th International Conference on Autonomous Agents and Multiagent Systems*.

Publication type: Conference contribution

Document version: Accepted

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Direct Imitation of Human Facial Expressions by a User-Interface Robot

Authors: Tscherepanow, M., Hillebrand, M., Hegel, F., Wrede, B., & Kummert, F.

Organizational Units: C2: Communicating emotions

Abstract: Imitating the facial expressions of another person is a meaningful signal within interpersonal communication. Providing a robot with the capability of imitating the face of an interactant marks a first step towards implementing a communication model of mimicry. In this paper, we present a novel approach to facial expression imitation which does not require observed expressions to be assigned to a set of basic emotional expressions. Rather, arbitrary expressions are directly imitated exclusively based on camera images of the interactant's face. Consequently, the repertoire of displayable expressions is extended significantly and becomes more appropriate for interactions with humans.

Fulltext:



2009_tscherepanow_Humanoids09.pdf

Confirmation:



humanoids09_confirmaton.pdf

Suggested Citation: Tscherepanow, M., Hillebrand, M., Hegel, F., Wrede, B., & Kummert, F. (2009). Direct Imitation of Human Facial Expressions by a User-Interface Robot. *9th IEEE-RAS International Conference on Humanoid Robots (Humanoids 2009)*, 154-160.

Publication type: Conference contribution

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Measuring Morphological Productivity

Authors: Pustynnikov, O., & Schneider-Wiejowski, K.

Organizational Units: A3: Dialogue games and group dynamics
C3: Repairs and reformulations in dialogue

Abstract: The present article addresses the phenomenon of productivity in derivational morphology from the point of view of its quantification. Research in morphological productivity was mainly done for the English language, and there is still a lack for German, although, it is a very interesting subject. We evaluate three quantitative approaches proposed in the literature to measure productivity of German noun suffixes. In addition, we apply a decomposition algorithm used in a multi-agent simulation (Pustynnikov, 2009) to identify productive suffixes. We compare three different types of corpora in German: two newspaper corpora from different periods of time, and one corpus of spontaneous speech. Empirical studies exploring productivity mostly focus on written data, although new word formations are expected to occur to a larger extent in spoken language. In this article, we investigate the differences in results based on spoken and written corpora.

Fulltext:



[PustynnikovSchneider-WiejowskiV4-FINAL.pdf](#)

Suggested Citation: Pustynnikov, O., & Schneider-Wiejowski, K. (2010). Measuring Morphological Productivity. *Issues in quantitative linguistics: 1-9. 5*, [urn:nbn:de:0070-bipr-43703](#).

Publication type: Journal article

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- Verbesserte Außendarstellung fördert Sichtbarkeit spürbar

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