

# Observation of Communicative Behaviour when Learning a Movement Sequence: Prequel to a Case Study

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**Abstract.** When trying to improve human-machine communication it can be helpful to better understand human thinking and behaviour. In some cases, it is not only feasible, but also helpful to transfer recognised communicative patterns to machine interaction. The benefits of multimodal interfaces have been explored for quite some time, arguably starting with the famous “put that there!” demonstration system [4], leading to a variety of theoretical works and application systems [14]. However, there is still a lot of work to be done before non-verbal elements of communication can challenge the predominant paradigms for human-computer interaction [8, 35]. We have previously worked on multimodal behaviour in specific contexts of interaction [8, 7] and on explanation-aware systems [16] as well as a combination thereof [6]. In order to better understand which aspects of human-to-human communicative behaviour can (at least) be mimicked by computational systems, we perform empirical research with humans in this area. In this paper, we present a pre-study for an experimental setup that looks at human-to-human communicative behaviour during movement sequence learning. This will enable us to better understand the role of different features in explanatory behaviour. In the end, a better understanding of this behaviour will hopefully enable us to optimise human-machine interaction as it pertains to explainable AI and might aid the development of better training systems for learning complex motor skills in high risk environments such as surgery or emergency medicine.

## 1 Research Questions

An increasing number of tasks in all walks of life are being taken on or supported at least partially by technology e.g. learning in high risk environments like surgery, where learning a new complex motor skill can be essential to saving life, but where learning by doing is life threatening [21, 40]. An important aspect here is the notion of co-operative systems, mixed-initiative systems or, more general, the notion of “human-in-the-loop” [34, 42].

For the often implied sharing of tasks between humans and machines to be effective, it is necessary that the exchange of information between human and machine runs smoothly. While it has been (and in some cases still is) common to model humans as information processing systems [6, 19], which means that they perceive signals from sensors through the sensory perception system, process that information through the cognitive processing system and finally act on that information; human information processing is quite distinct from machine data processing. Despite the different capabilities and potentials, however, a better understanding of human communicative

behaviour will perhaps enable us to build systems for better communication between humans and machines [39].

Communication is so much more than spoken or written language. Natural language is inherently multimodal in nature [36]. Because of this, the classic transmitter-receiver model of information processing that is often used in computer science is typically extended to include other modalities depending on the needs of the research [27, 32]. In natural interaction, the progression and the success or failure of the interaction can be shaped by many different factors including behavioural or contextual elements [27, 29].

The underlying research program of which this paper is a part aims to investigate whether the consideration of behavioural and contextual elements can provide insights that can be used for the optimisation of future explanation-aware systems. To this end, an experimental setup was developed in a pre-structured explanatory situation. In this experimental domain, the test subjects’ goal is to learn a behavioural sequence that is indicative of complex motor skill learning, in this instance a Judo technique. The aim is to design the instructional material in such a way that it is relatively self-explanatory, making verbal communication superfluous. Non-verbal behaviours such as gestures, facial expressions and body movement are observed and the communicative behaviour is recorded as accurately and unobtrusively as possible. This allows for the analysis of the timing and potential motivation for additional communication and the consideration of how this might relate to contextual and individual factors.

## 2 Human-Machine Communication

Human-machine communication (HMC) refers to the mutual information exchange between human and machine [41]. This means the “interactive”, natural, and therefore multimodal interaction between people and information processing systems. Early textual chatbots such as Eliza [38] mainly responded to keywords or phrases and answered with canned responses. This was then amended using template-based systems [5].

By now, systems using spoken natural language and learned models have become mainstream. Technologies such as Google Duplex, Alexa (Amazon) and Siri (Apple) respond to questions and answer them appropriately, even mimicking non-task oriented aspects of human communication. For example, Google Duplex uses typical human behaviours like a short pause for reflection between sentences or uttering “hm” [22].

Turning to other modalities than spoken (or written) language, modern sensor technology in principle opens up the potential for

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<sup>†</sup> Interactive is used here in a colloquialistic sense and is not referring to an assumed inherent property.

# Sequence And Pattern In Communicative Behaviour The Social Psychology Of Language

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**Handbook of International and Intercultural Communication** Molefi Kete Asante, William B. Gudykunst, Eileen Newmark, 1989-05 Now in paperback this indispensable volume summarizes the state of the art in international intercultural and developmental communication and sets the agenda for future research It includes an overview of major theoretical and applied issues processes and effects in international and intercultural communication contexts and issues of conducting research on culture language and communication The volume frames the critical issues facing scholars studying language and communication stimulates new theoretical formulations demonstrates the application of diverse methods of research and provides the basis for finding solutions to critical issues facing the modern world

**Choice**, 1985

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