PhD Thesis Sheng FANG

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**Title:** Study of social cues exchanged during natural interactions

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**Abstract:** The objective of this thesis is to create a model of interaction between people and to estimate the quality of this latter, as well as its strengths and its weaknesses. This multimodal (speech, face, gestures, posture...), dynamical (changing with time) and hierarchical (different levels of characterization: gestures, facial orientation, engagement, synchrony at different time steps) model should both reflect inter and intra-personal temporality. It will assess both human / machine interactions and exchanges in dyads for the objectification of pathological disorders.