



EUROPEAN
COMMISSION

Community Research



Université Montpellier 1

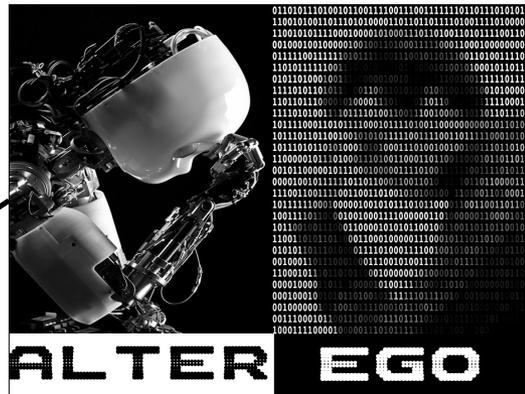


ALTER



ENHANCING SOCIAL INTERACTION WITH AN ALTEREGO ARTIFICIAL AGENT

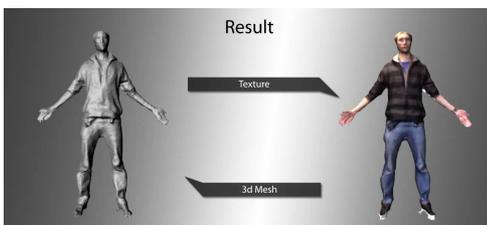
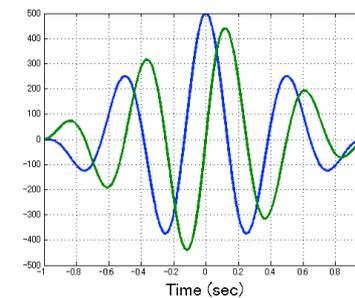
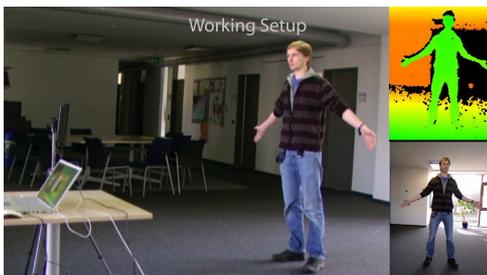
SIMILARITY



Morphological

Behavioural

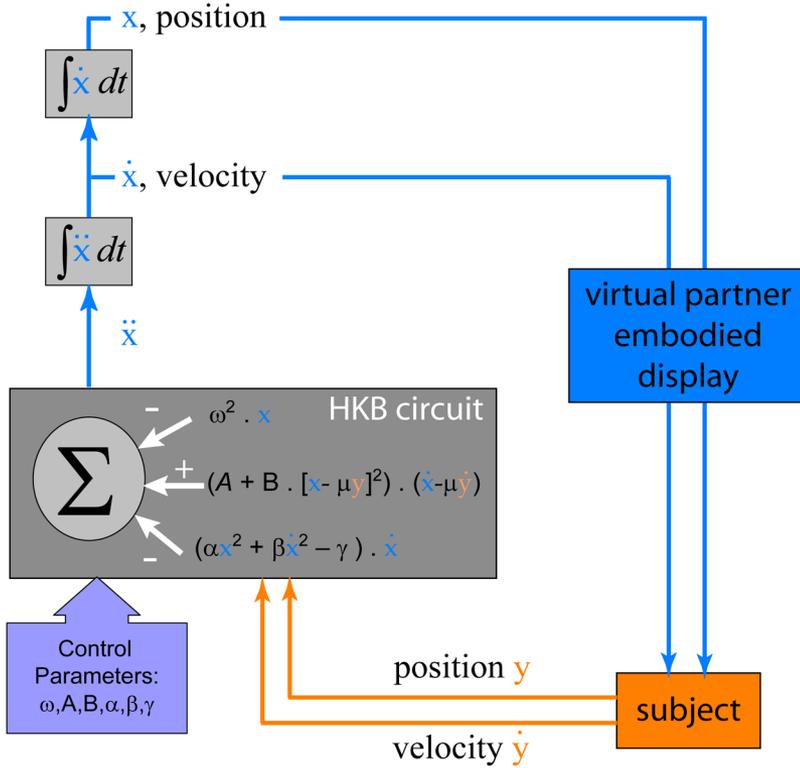
Temporal



Key Frames	Super-Resolution	Rigid Align	Non-Rigid Align	Poisson	All
36	28 sec	110 sec	620 sec	68 sec	826 sec (13.77 min)
Neck to Hip Length 2.1cm	Shoulder Width 1.8cm	Arm Length 2.3cm	Leg Length 3.1cm	Waist Girth 3.3cm	Hip Girth 2.6cm



MODELLING MOVEMENT COORDINATION FOR REHABILITATION OF PATIENTS SUFFERING FROM SOCIAL DISORDERS



$$\dot{x}_{alr} = (x_{alr} + y_{alr} - f_1^{alr}(x_{alr}) + I_{alr} + I_{alr}^P),$$

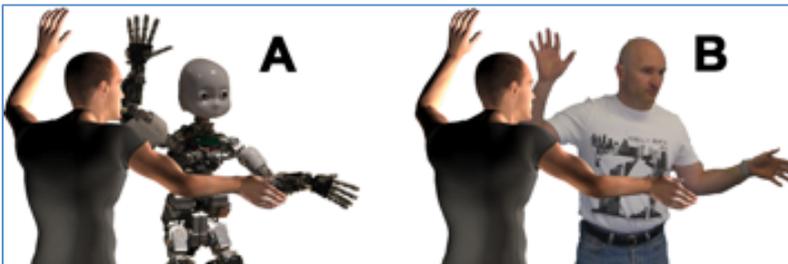
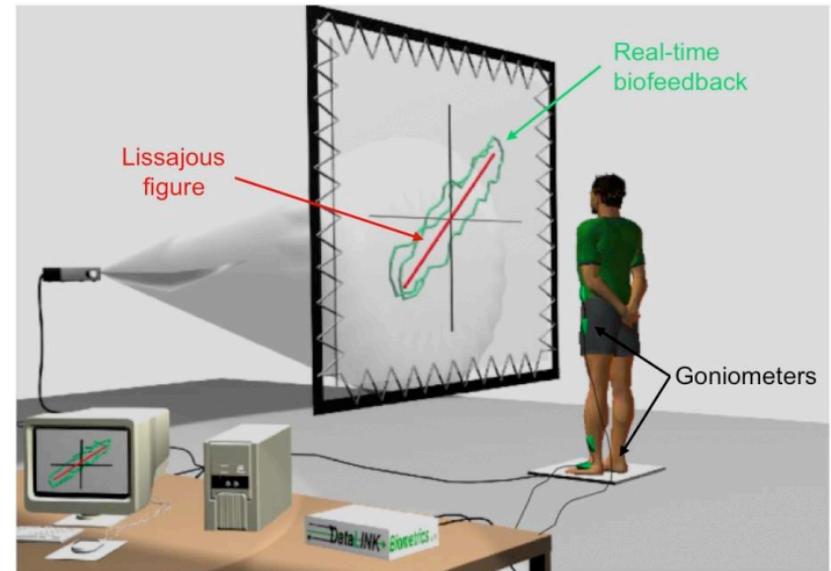
$$\dot{y}_{alr} = -\varepsilon_{alr}(x_{alr} + f_2^{alr}(x_{alr}, y_{alr})),$$

$$\dot{x}_p = (x_p + y_p - f_1^p(x_p) + I_p + I_p^{alr}),$$

$$\dot{y}_p = -\varepsilon_p(x_p + f_2^p(x_p, y_p)),$$

$$x_{alr(p)\tau} = x_{alr(p)}(t - \tau_x),$$

$$y_{alr(p)\tau} = y_{alr(p)}(t - \tau_y),$$



The mirror game as a paradigm for studying the dynamics of two people improvising motion together

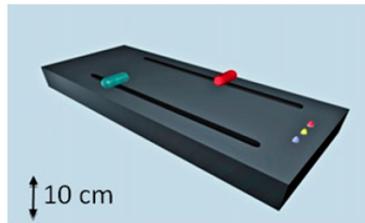
Lior Noy^{a,b}, Erez Dekel^a, and Uri Alon^{a,1}

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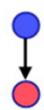
Joint improvisation is the creative action of two or more people without a script or designated leader. Examples include improvisa-
proceeded with two types of rounds: In leader–follower (LF) rounds, one player was leading and the other was following. In

A



“Imitate each other, create synchronized and interesting motions, and enjoy playing together”

B



Leader-Follower (LF)
Red follows the motion of Blue

C



Joint Improvisation (JI)
Both players create the motion together, without a designated leader or follower

