



Work Progress Report

Project Period: 2015/02/16 ~ 2015/08/18

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Title

**Developing an experimental platform for Human Robot
Interaction based on human motions**

1 2015/06/01-2015/06/07

Date	Content	Problems/Remarks
2015/06/01	<ul style="list-style-type: none">• Conference paper discussion and correction• Crated new gestures needed for therapy experiment• Modified the gesture recognition module to support new gestures.	-
2015/06/02	<ul style="list-style-type: none">• Approach behavior modification (test with simulator a dummy walk)• World frame support added in order to find the relative orientation of Nao and human.	
2015/06/03	<ul style="list-style-type: none">• Worked on Approach behavior methodology• Fixed lot of bugs in the behavior program execution• Testing	

Date	Content	Problems/Remarks
2015/06/04	<ul style="list-style-type: none"> • Behavior simple block added • Expressive say with an argument support • Therapy scenario support start 	
2015/06/05	<ul style="list-style-type: none"> • Modified main program execution to support therapy scenario • Fixed the bugs in the "expressive say with arguments" • Performed the experiment for the "Therapy facilitator scenario" 	
2015/06/06	<ul style="list-style-type: none"> • Museum scenario - Choregraphe program added • Approach behavior modification 	
2015/06/07	<ul style="list-style-type: none"> • Approach behavior as a combination of pure rotation and translation motions • Museum scenario experiment 	

2 2015/06/08-2015/06/14

Date	Content	Problems/Remarks
2015/06/08	<ul style="list-style-type: none">• Conference paper update	-
2015/06/09	<ul style="list-style-type: none">• Conference paper update• Speech recognition module integration (Microsoft speech platform). Added speech recognition node.	
2015/06/10	<ul style="list-style-type: none">• Conference paper update and submission	
2015/06/11	<ul style="list-style-type: none">• Behavior description method redesign• Speech recognition Japanese language test	
2015/06/12	<ul style="list-style-type: none">• Thesis documentation	

3 2015/06/15-2015/06/21

Date	Content	Problems/Remarks
2015/06/15	<ul style="list-style-type: none">• Thesis documentation• Changing behavior description	-
2015/06/16	<ul style="list-style-type: none">• Completely changing the way behavior program is defined• Added new run time behavior execution engine and direct code generation from the block description	
2015/06/17	<ul style="list-style-type: none">• (Blockly definition → C# code generation → Dynamic execution) - Implementation and test (ongoing)	

Date	Content	Problems/Remarks
2015/06/18	<ul style="list-style-type: none"> • Speech Trigger implementation and test • Speech response wait function - added new block, implementation and test • Parallel task execution block - added, implemented • Approach behavior migration to new execution engine 	
2015/06/19	<ul style="list-style-type: none"> • Thesis documentation 	

4 2015/06/22-2015/06/28

Date	Content	Problems/Remarks
2015/06/22	<ul style="list-style-type: none">• Thesis documentation• Questionnaire discussion	-
2015/06/23	<ul style="list-style-type: none">• Thesis documentation• First year students : Chore-graphie Lesson	
2015/06/24	<ul style="list-style-type: none">• Thesis documentation	
2015/06/25	<ul style="list-style-type: none">• Implemented asynchronous robot task execution• FSM for execution of tasks in the robot side and the application side• Fixed priority based preemption implementation and test	

Date	Content	Problems/Remarks
2015/06/26	<ul style="list-style-type: none"> • Thesis documentation • Fixed priority preemption test • Parallel task execution test 	
2015/06/27	<ul style="list-style-type: none"> • Software update on GVLab Nao and TagawaLab Nao • Fixed priority preemption test in real robot • Parallel task execution test in real robot 	
2015/06/28	<ul style="list-style-type: none"> • Thesis documentation 	

5 2015/06/29-2015/06/30

Date	Content	Problems/Remarks
2015/06/29	<ul style="list-style-type: none">• Thesis documentation• Questionnaire update• Preparation for user study	-
2015/06/30	<ul style="list-style-type: none">• Thesis documentation• Handout preparation	