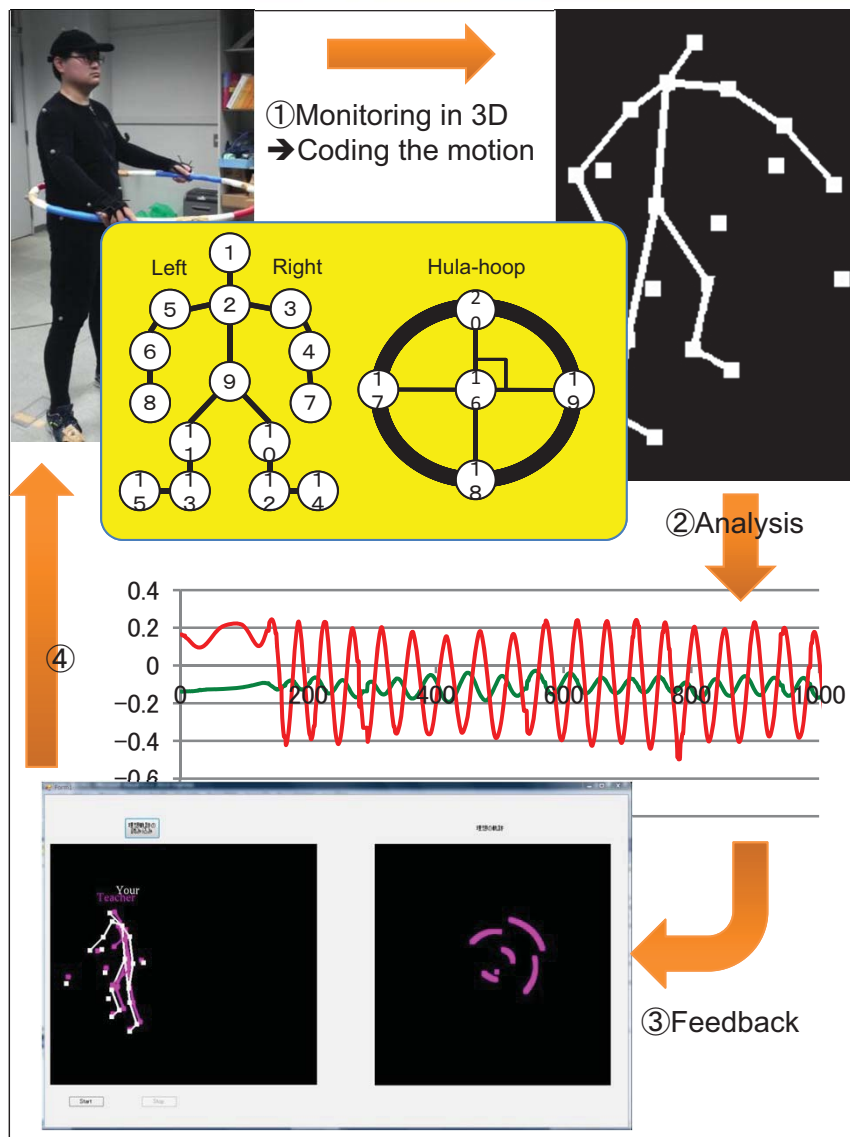


# Research on skill development of repeating motion

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## Content:

The research focuses on a supporting framework that contributes motor-skill learners of repeating motions. The concrete target of repeating motion is “hula-hoop” at beginning. It has several characteristics such as manipulating an object, in room, simple motion.

The supporting process we have in mind is shown as in the left figure. To start, the system monitors the 3D motion and create a series of motion-code. Then, it will automatically analyses the coded motion in a wave form. There several types of wave form based on our initial discussions. After this process, the system makes the feedback model and give the visible feedback image. The learner can identify which point should be arranged from the origin.

In fact, the supporting process described above is associated with the assumption about the human process of motor-skill learning. The process includes cognition, motion selection, actual motion and storing result. We have to discuss the human process deeply and design the framework based on the discussion. We will also implement the total system including the whole process mentioned above.

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