Human Postural System with Kinect

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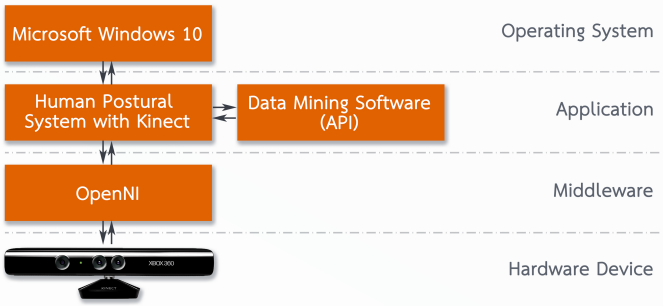
MOTIVATION

- Human activity information apply in many fields such as medicine, sports, marketing etc.
- The process of recognize human activity model is complicated.
- A kinect camera provide more information than a general camera. This information speed up model process and applied in many fields.

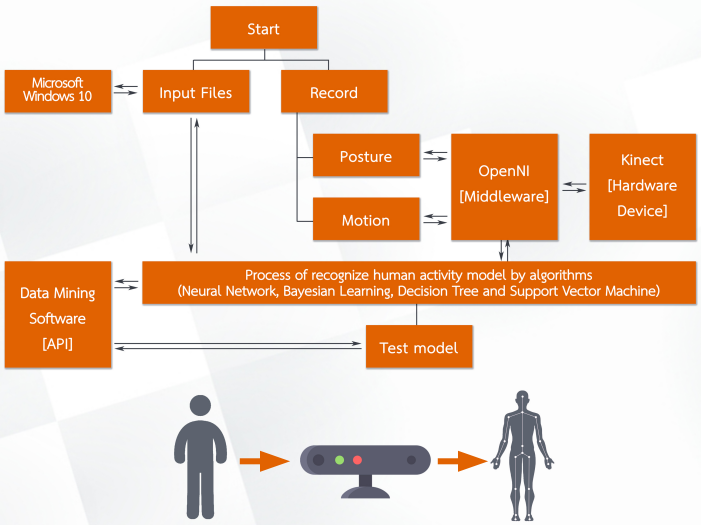
OBJECTIVE

We propose an activity recognition system using kinect devices that quickly and easily create recognized models.

SYSTEM ARCHITECTURE

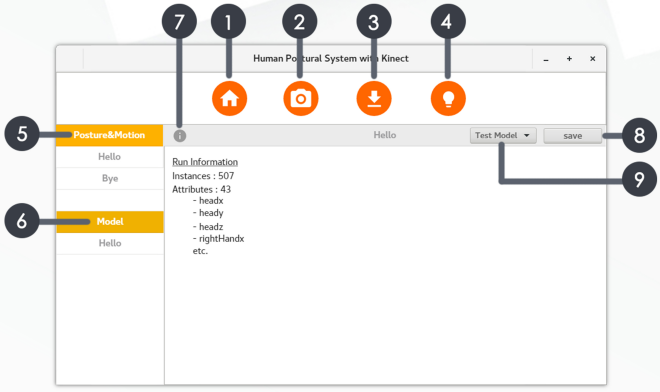


FLOW



ref : http://biomechanical.asmedigitalcollection.asme.org/article.aspx?articleid=2536526

RESULTS



funtion of Human Postural System with Kinect

1. home
2. kinect
3. input files
4. recognized model
5. posture and motion files
6. model files
7. information file
8. test model
9. save model

CONCLUSION

The system create activity recognition models through the user's graphical interface using data mining techniques.The algorithm for modeling has 4 algorithms: artificial neural network Bayesian Learning Decision tree and support vector machine.Users be able to add other APIs to the system ,moreover Users view and test the performance of the algorithm or model through the graphical interface of the system.

REFERENCES

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