Special Topics in Mechano-Informatics II

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**1. How do you apply your study to materials informatics (possibly?)**

I would apply deep learning models for blood test. We can tell a lot of useful information about health by blood test. Now it costs much because we have to go to hospital to do that. However, we can do blood test by introducing small device to detect blood. The device sends information to smartphone, and we can analyze heath condition by deep learning `automatically from complexed features`. It could be a problem on introducing devices.

**2. Thoughts on interdisciplinary studies**

Interdisciplinary study is important, especially between traditional disciplines and new disciplines, such as deep learning. Deep learning has caused break through because the algorithm can deal with intelligent processing automatically by extract features from big and complex data. However, experienced researchers in such traditional fields often lack knowledge in such specialized fields, and enough data to analyze through machine learning don’t exist. The young researchers who are familiar with machine learning arts, such as deep learning, don’t have enough domain knowledge in specialized field. There exists `gap` between traditional disciplines and new disciplines. Therefore, the importance of interdisciplinary study have been increasing to overcome this `gap`, rather than learning toward either field.