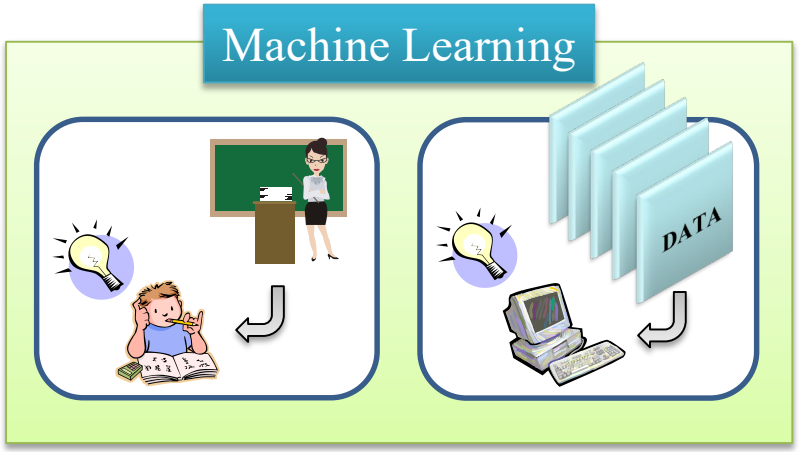
Probabilistic Modeling and Data Science

Professor Muneki Yasuda



We have worked in a type of information science in the field of intelligent information science, in which we approach to problems with fusing **information data science** and **probabilities** together. Mainly, we have studied the followings:

1. Statistical Machine Learning Theory ― development of a framework to find an appropriate probabilistic treatment for real data.
2. Probabilistic Computer Vision Systems ― development of systems to have computers doing complicated digital image processings. The example of digital image inpainting is shown in the middle of the left panel.
3. Probabilistic Inferences on Networks ― development of probabilistic inference systems on large and complex networks. The example of traffic inference is shown in the bottom of the left panel.

We are approaching to problems other than the above using information data science and probability theory.

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Research Interest : Probabilistic Information Processing systems

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