

13. Yoichi Tomiura (*Kyushu U.*):
Information Infrastructure

Constructing a Large Scale Information Infrastructure of Paper-based Historical Materials

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Historians clarify a historical fact based on materials.

It is very difficult to find out such key materials, if they are **paper-based materials**.

If the materials are converted into texts, this difficulty is overcome by full-text search.

We try to construct **information infrastructure** of paper-based materials by

- **developing technologies**
 - robust OCR technology over aging (discoloration and blur) of materials
 - robust search method over OCR errors
- **fostering a community** of researchers that provide image data
- **providing human support** to image data providers and infrastructure users

We are planning to **train information professionals** through constructing and using the infrastructure.