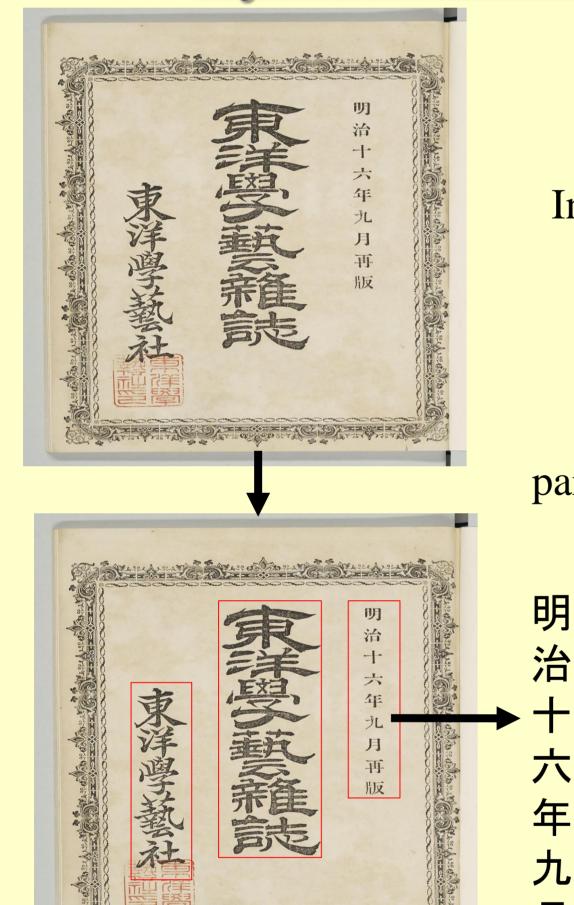
Deep Learning for Recognition of Japanese Historical Documents

LE DUC ANH データ科学研究系 特任助教

Introduction

- **4** CODH has the following missions toward the promotion of data-driven research and formation of the collaborative center in humanities research.
- **4**Employ state-of-the-art technologies in AI and Deep Learning to digitize Japanese historical document
- **4**Construct data platforms for sharing historical document, digitization methods to promote trans-disciplinary participation of people with diverse backgrounds
- Aggregate, process and deliver humanities knowledge from Japan to the world through collaboration across organizations and countries

System Overview

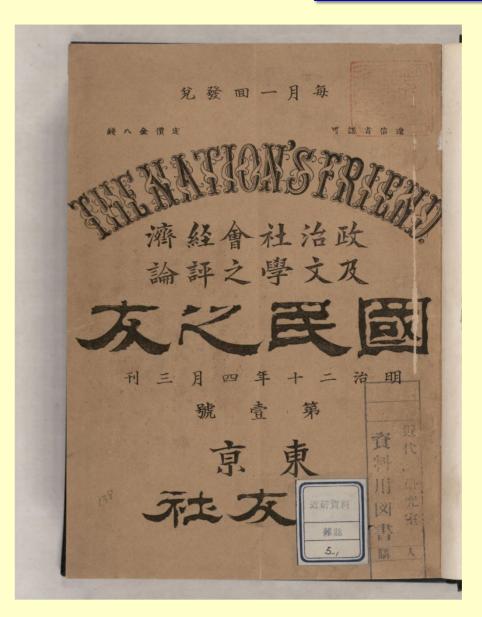


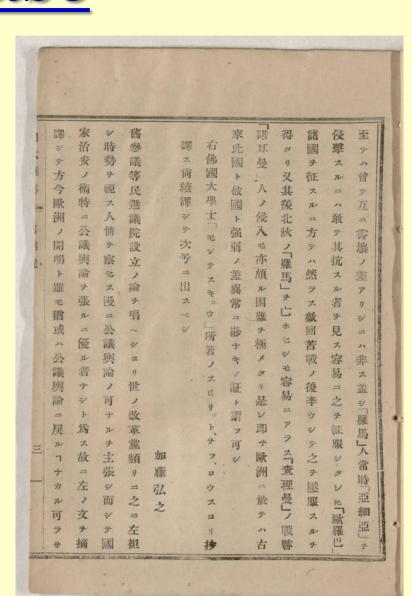
Input image

Layout analysis paragraph, line, word

十 六 Text Recognition 年

Database



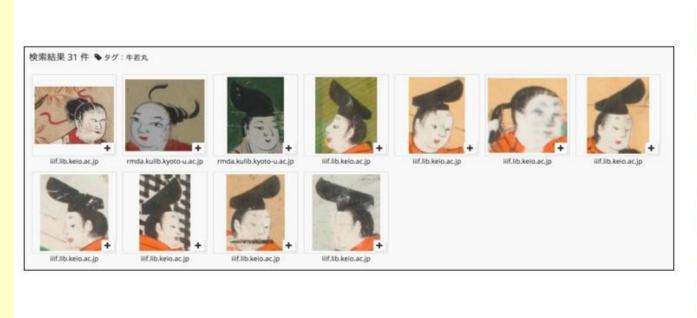


Japanese Modern Magazines (~1900)





Pre-Modern Japanese Text

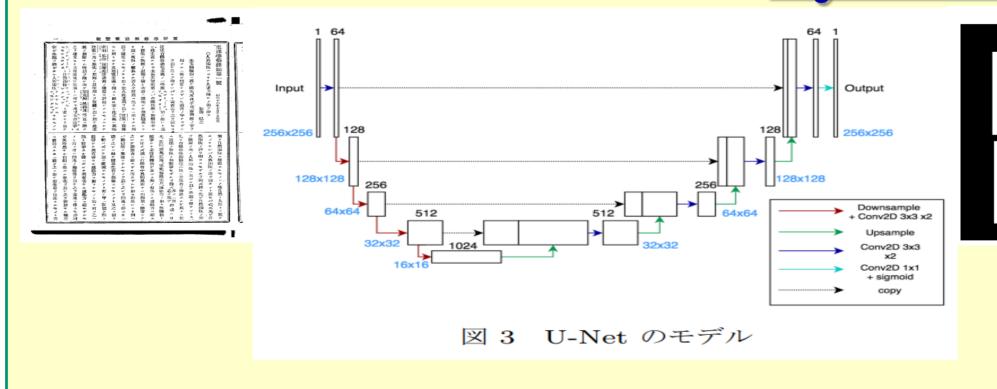






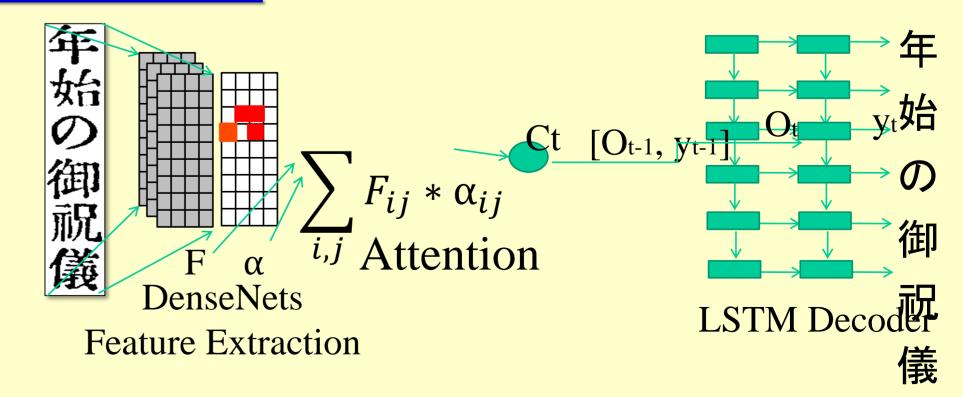
Collection of Facial Expressions from Japanese Emaki

System Architecture



Text Detection

再



Text Recognition