

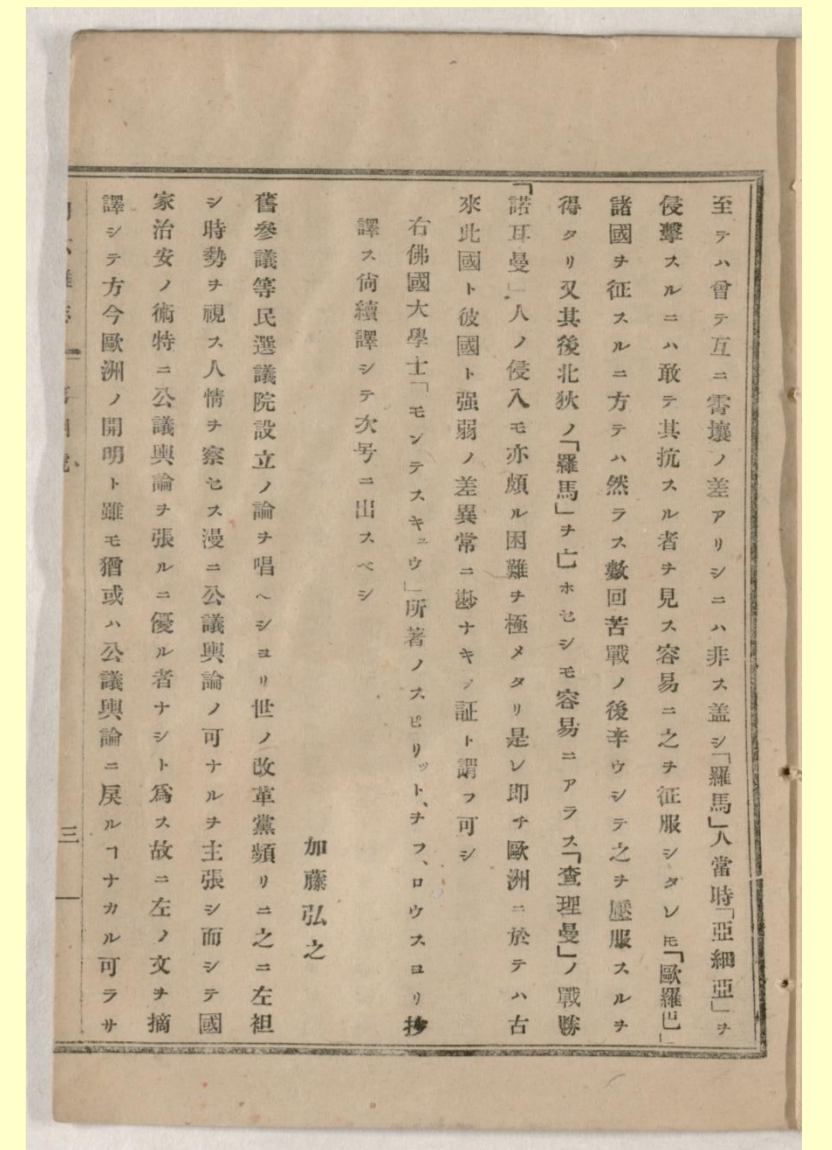
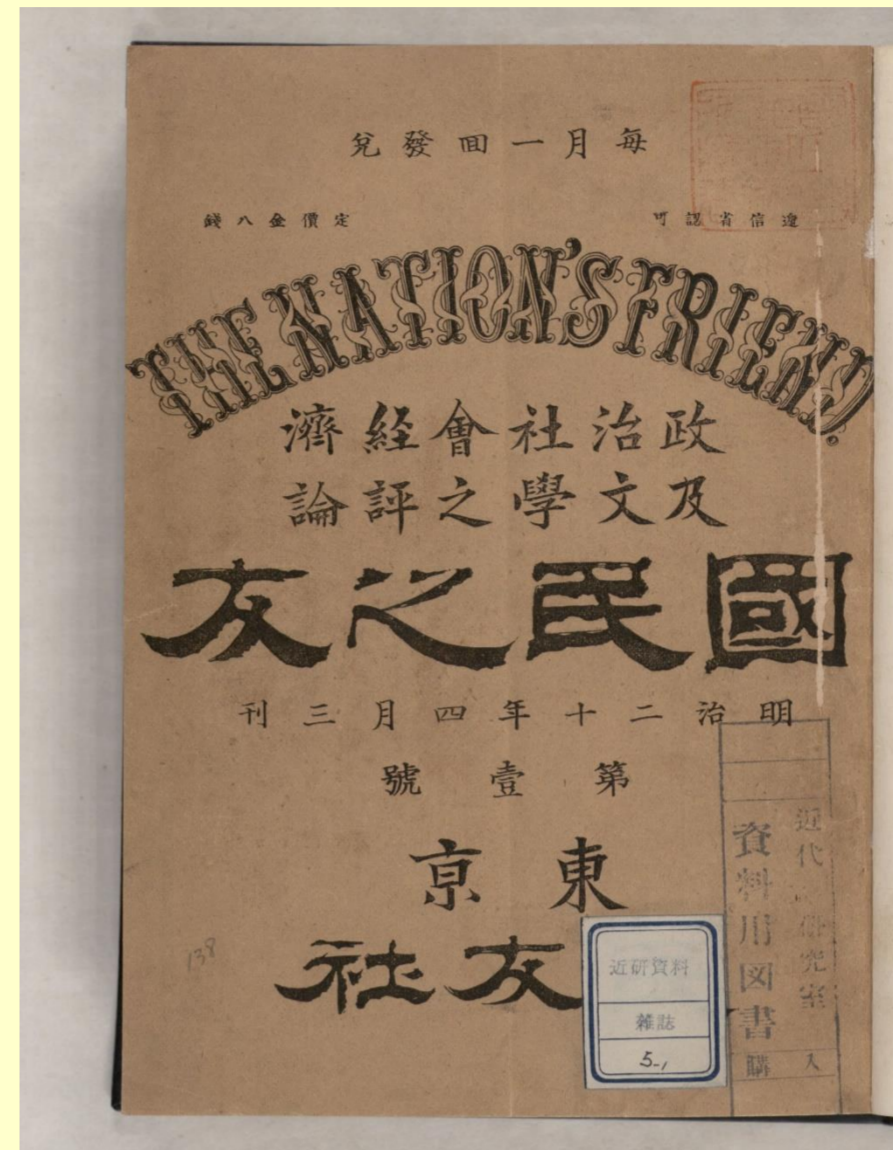
Deep Learning for Recognition of Japanese Historical Documents

LE DUC ANH データ科学研究系 特任助教

Introduction

- CODH has the following missions toward the promotion of data-driven research and formation of the collaborative center in humanities research.
- Employ state-of-the-art technologies in AI and Deep Learning to digitize Japanese historical document
- Construct data platforms for sharing historical document, digitization methods to promote trans-disciplinary participation of people with diverse backgrounds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

Database



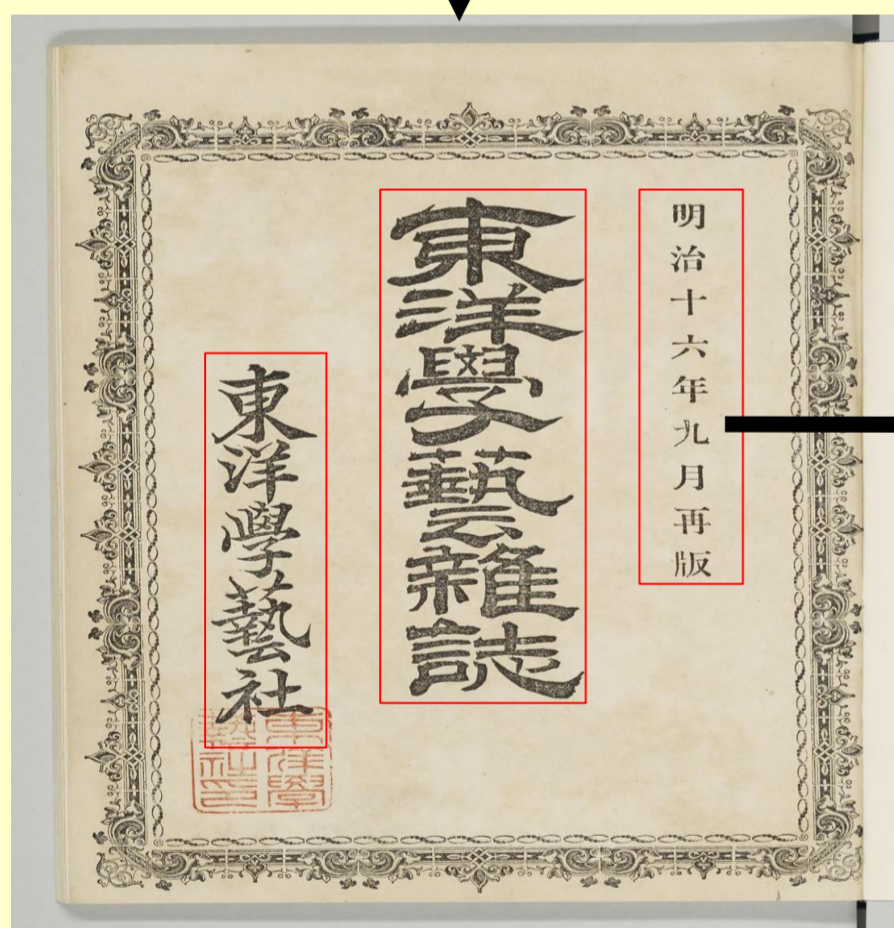
Japanese Modern Magazines (~1900)

System Overview



Input image

Layout analysis
paragraph, line, word

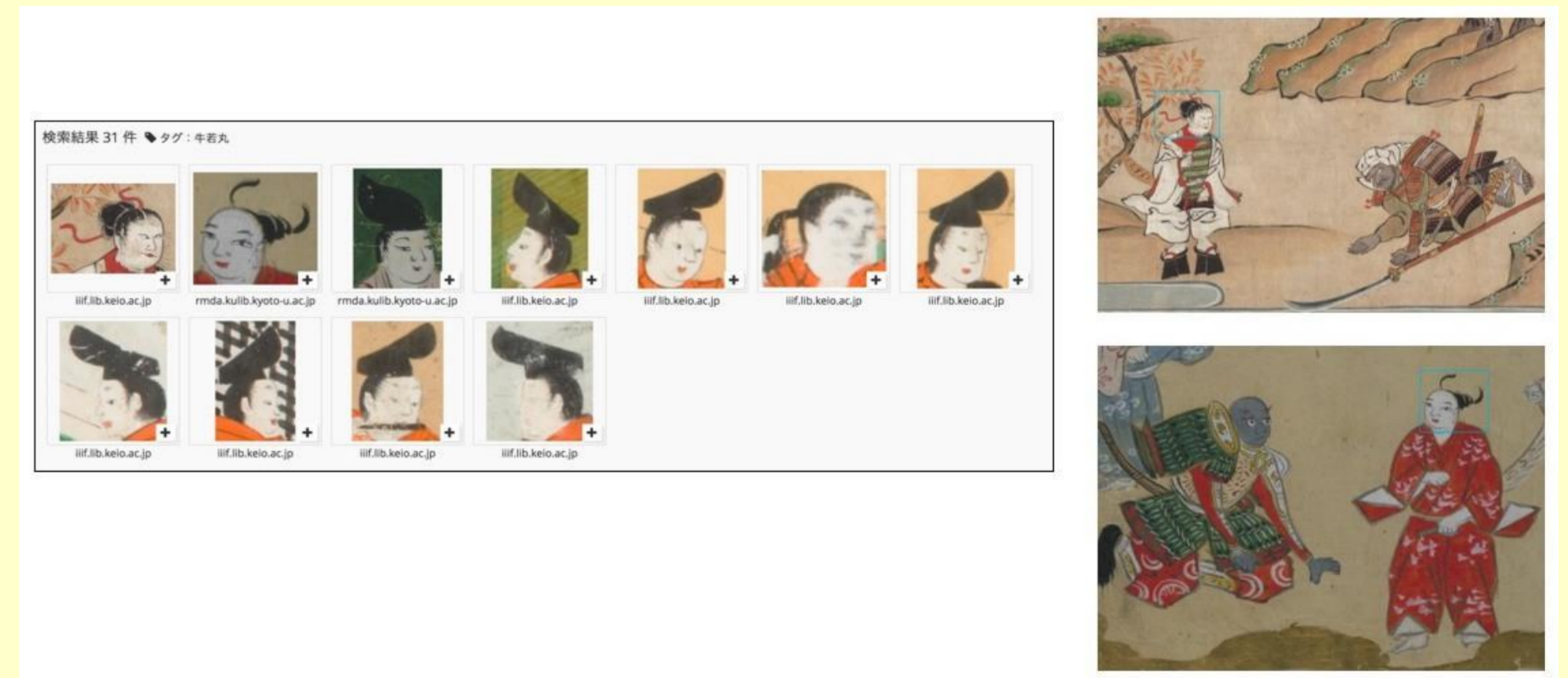


Text Recognition

明治十六年九月再版

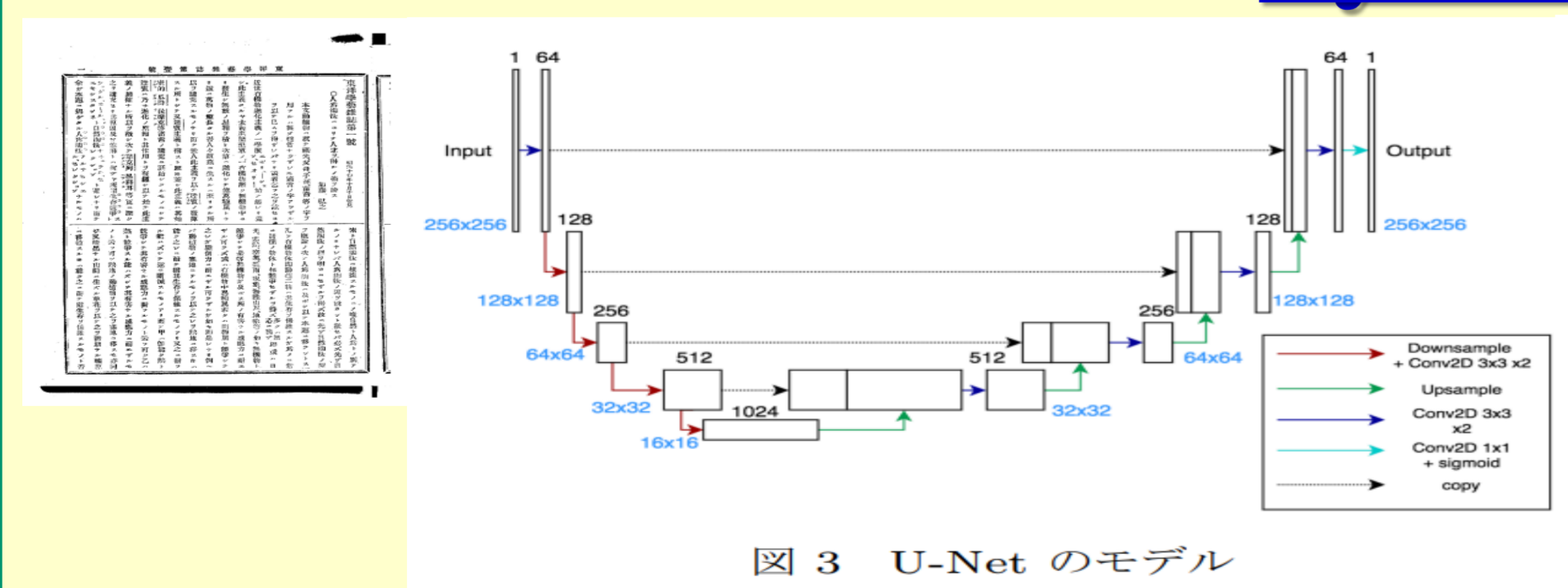


Pre-Modern Japanese Text

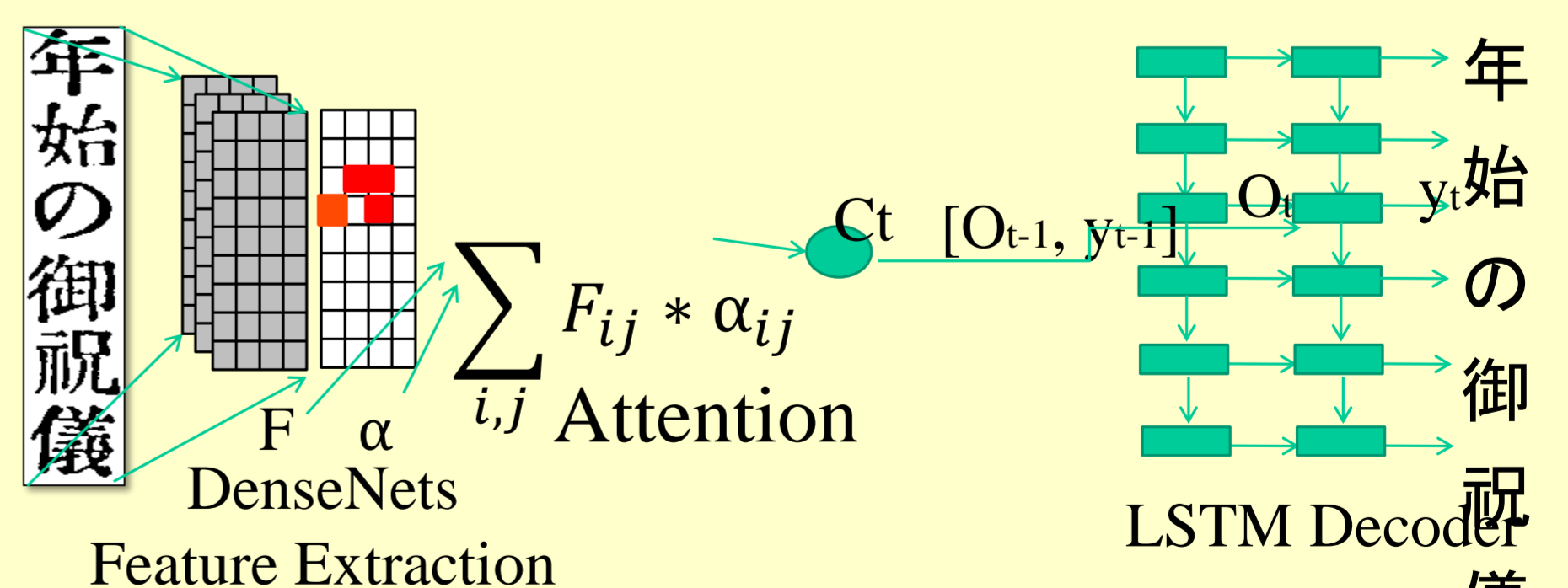


Collection of Facial Expressions from Japanese Emaki

System Architecture



Text Detection



Text Recognition