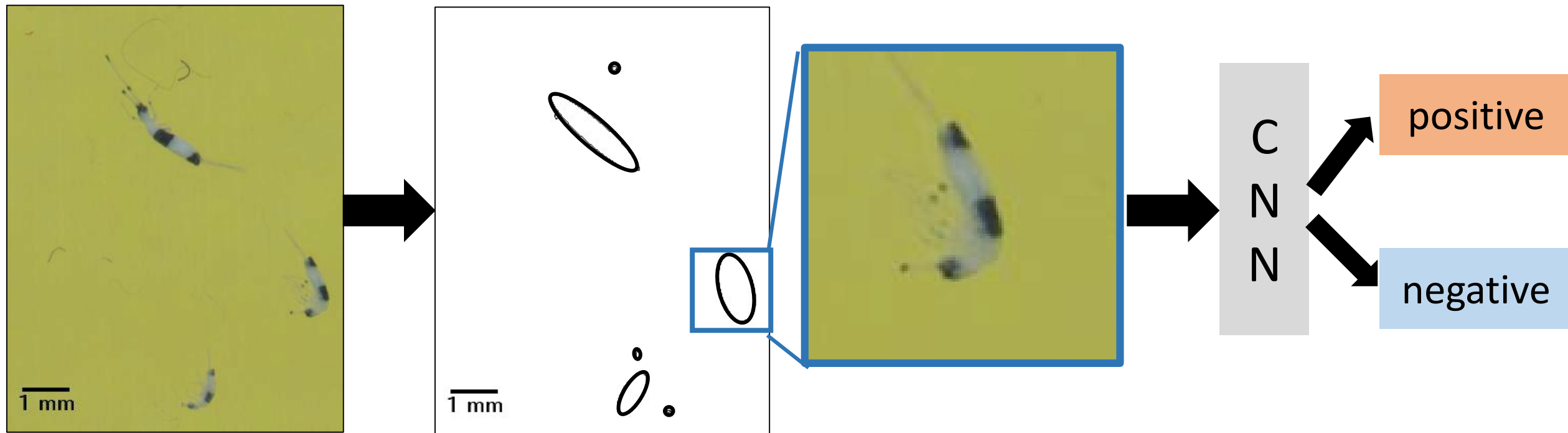


Automatic counting system for collembola

- The counting system was realized using image processing and deep learning(CNN).
- Develop environment:python2,ImageJ,Chainer



Processing flow

Automatic counting system for collembola

- Thy system accuracy is 84%.

counting results

| Number of individuals | output | accuracy |
|-----------------------|--------|-------------|
| 148 | 153 | 0.95 |
| 586 | 522 | 0.85 |
| 845 | 741 | 0.84 |

- In hackathon, I improved and hand over the system.