

## Human Sensing

2 units (selection)

Minoru Fukumi · PROFESSOR / INFORMATION SCIENCE, INFORMATION SCIENCE AND INTELLIGENT SYSTEMS, SYSTEMS INNOVATION ENGINEERING

**Target** This lecture aims to understand the latest topics in a field of Intelligent systems, and to obtain advanced knowledge and technologies.

**Outline** This lecture teaches the advanced topics in intelligent systems. The main items in this lecture are softcomputing and human sensing, including face information processing and its computer practice and biological signal processing.

**Style** Lecture and exercise

**Keyword** *soft computing, human sensing, human information processing*

**Goal**

1. To understand the latest topics on Intelligent systems.
2. To learn the trend of a domestic and foreign research on related topics.

**Schedule**

1. Topics in Advanced Intelligent Systems
2. Topics in Advanced Intelligent Human Sensing
3. Topics in Brain Information Processing
4. Topics in Advanced Softcomputing techniques
5. Psychological Knowledge and Neural Network Model
6. Topics in Advanced Face Information Processing
7. Topics in Advanced Biosignal Processing
8. Topics on applications in Advanced Softcomputing techniques
9. Statistical Learning Algorithms
10. Topics in Eye Tracking and Its Applications
11. Topics in OpenCV applications
12. Topics in EMG and EEG researches
13. Exercise in Advanced Intelligent Systems
14. Exercise in Softcomputing
15. Exercise in Human Information Processing
16. Discussion

**Evaluation Criteria** Attendance (30%), practice(10%), report (60%)

**Textbook** no special book

**Reference** 講義・演習中に指定する.

**Contents** <http://cms.db.tokushima-u.ac.jp/cgi-bin/toURL?EID=216854>

**Student** Able to be taken by only specified class(es)

**Contact**

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(Office Hour: 金曜日,15~18時)

**Note**

- ◇ ゲストスピーカーを招聘して講義・演習を行う場合がある.
- ◇ 授業目的の達成度は最終レポートにより評価する.