

Multimedia Communication Theory and Technology

2 units (selection)

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Target) This class provides the knowledge necessary to understand fundamental technics for multimedia information and communication systems, such as coding method of multimedia data, information security, network security, user authentication, cryptology

Outline) This lecture is focused on multimedia communication theory and technology. Particular, Internet Technology, Computer Networks, Satellite Communications, Information Security and Cryptology, Multimedhia Coding Theory and Its Applications are explained in this lecture.

Style) Lecture

Keyword) *Internet technology, computer networks, satellite communications, information security, multimedia coding theory*

Fundamental Lecture) “**Advanced Exercise on Intelligent Science**”(1.0)

Requirement) 特になし

Goal)

1. fundamental technics for multimedia information and communication systems can be learned
2. Development method for multimedia information and communication systems can be learned

Schedule)

1. Multimedia Communication Theory and Technology
2. Coding Theory for Multimedia data (1)
3. Coding Theory for Multimedia data (2)
4. Coding Theory for Multimedia data (3)
5. Digital data Transmission (1)
6. Digital data Transmission (2)
7. Cryptology (1)
8. Cryptology (2)
9. Cryptology (3)
10. Information Security
11. Network Security (1)
12. Network Security (2)
13. Contents Protection for Maltimedia Data
14. User Authentication

15. Digital Signature

16. Assignment

Evaluation Criteria) Assignments count 100%.

Textbook) Printed synopsises of lecture are distributed.

Reference) To be introduced in the class.

Contents) <http://cms.db.tokushima-u.ac.jp/cgi-bin/toURL?EID=216889>

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

Contact)

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(Office Hour: 月曜日, 火曜日 (16:00-18:00))