Syllabus 2017 Computer and Mathematical Sciences
Design and Analysis of Information Systems

Japanese

■ Basic information

held this year:	yes
instructor(s)	Takeshi Tokuyama, Jinhee Chun
room	GSIS 2F Middle-size lecture room
schedule	The latter period (Monday) 13:00-14:30
begins on:	10/16

■ Objectives and outline

Lecture on mathematical methods focused on theory and analysis of computational complexities. In the academic year of 2015, we study elegant solutions of several typical problems in algorithms, computation and big-data analysis for learning "mathematical thinking" and its application to information science.
Takeshi Tokuyama will give the lectures. The lecture is given by English (but English in Japanese dialect) and Japanese so that both foreign students and Japanese students can follow. Some guest speakers will be invited to give specialized topics.

■ Class plan

We use important problems in theory of computation, and discuss their solutions and background. Students are also given time to consider problems.

■ Evaluation

Evaluation will be based on reports. You need to clearly show the source of references if you quote from WEB or articles.

■ Textbook(s)

The powerpoint slides will be available from the web page of the lecturer.

References: P. Winkler, Mathematical Puzzles, ISBN 1-56881-201-9, 2004
M. Aigner, G. Ziegler, Proofs from THE BOOK, ISBN 3-540-40460-0 (日本語訳あり)

■ Web site

http://www.dais.is.tohoku.ac.jp/~tokuyama/profile.htm
(Japanese page, but I hope you can find what you want)

■ Office hours

anytime by appointment

■ Other information

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