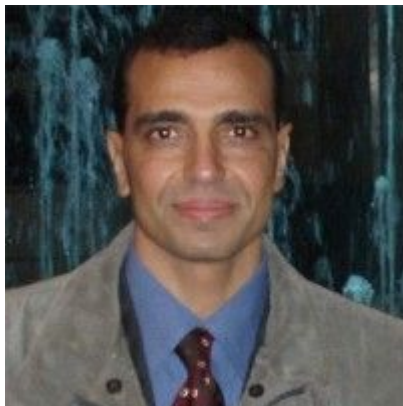


# FU08:

# Automata and Languages

Welcome

# People



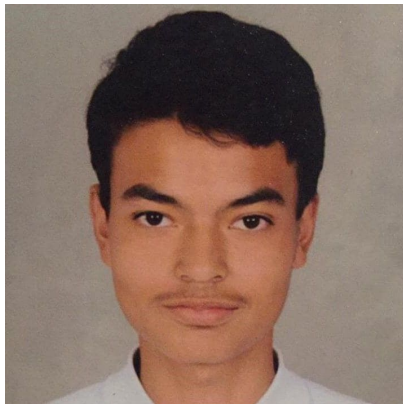
HAMADA Mohamed



NASSANI Alaeddin



THENUWARA Akila



OBATA Youssef

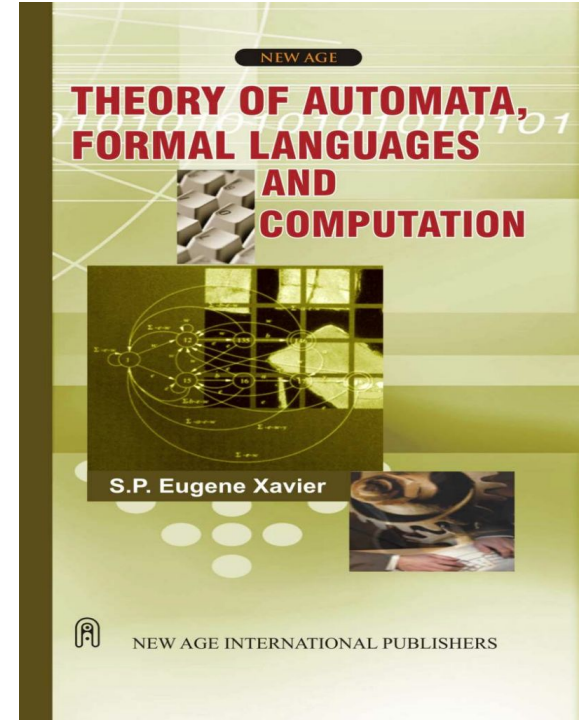
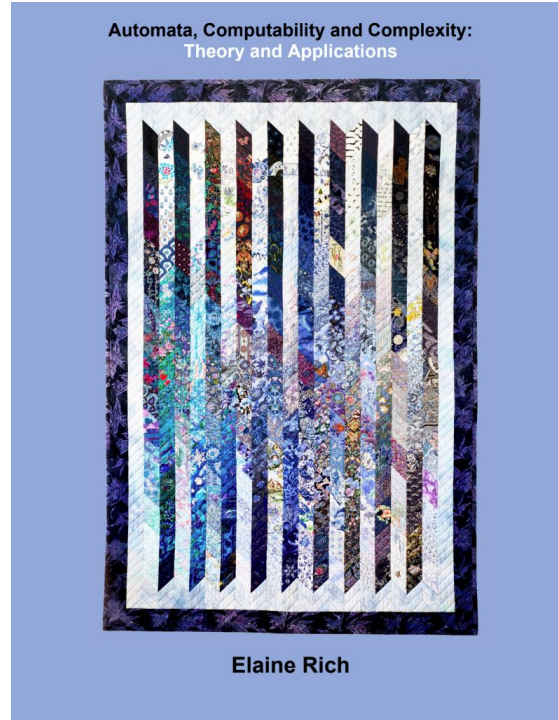
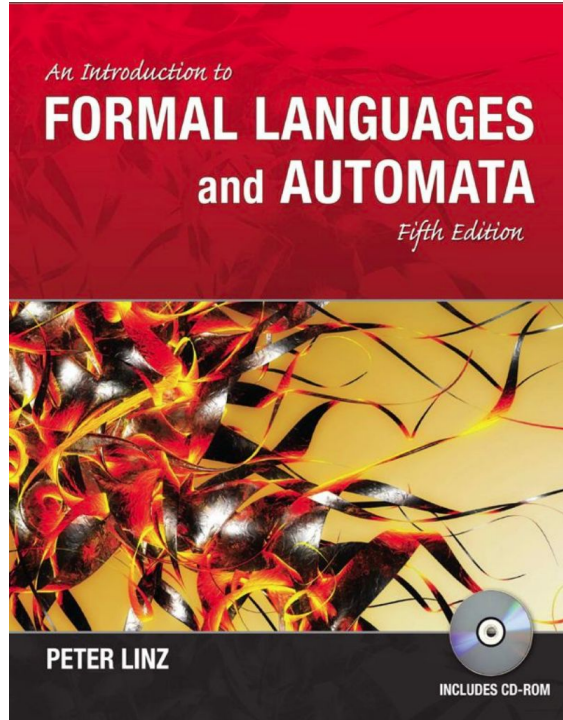


MANAWADU Udaka



UTSUMI Keisuke

# Books



# Schedule

Day	Meeting	Lecture	Excercise
Tue 3 Dec 2024	Meeting 1	Mathematical Background 1	Excercise 1
Fri 6 Dec 2024	Meeting 2	Mathematical Background 2	Excercise 2
Tue 10 Dec 2024	Meeting 3	Introduction to Automata	Excercise 3
Fri 13 Dec 2024	Meeting 4	Regular Expression and NFA	Excercise 4
Tue 17 Dec 2024	Meeting 5	Nondeterministic Finite Automata with empty moves ( $\lambda$ -NFA)	Excercise 5
Fri 20 Dec 2024	Meeting 6	DFA to Regular Expression Conversion	Excercise 6
Tue 24 Dec 2024	winter break		
Fri 27 Dec 2024	winter break		
Tue 31 Dec 2024	winter break		
Fri 3 Jan 2025	winter break		
Tue 7 Jan 2025	Meeting 7	DFA Minimization	Excercise 7
Fri 10 Jan 2025	Meeting 8	Mid-term exam	
Tue 14 Jan 2025	Meeting 9	Grammar	Excercise 8
Fri 17 Jan 2025	no class		
Tue 21 Jan 2025	Meeting 10	Context free grammar and parsing	Excercise 9
Fri 24 Jan 2025	Meeting 11	CFG: Normal Forms	Excercise 10
Tue 28 Jan 2025	Meeting 12	Regular Languages and Pumping Lemma	Excercise 11
Fri 31 Jan 2025	Meeting 13	Context free languages and pushdown automata	Excercise 12
Tue 4 Feb 2025	Meeting 14	Turing machines	
Fri 7 Feb 2025	Final exam?	Final exam	

# Grading

Class activities: 14% (1% per class)

Midterm exam: 20%

Exercises: 26%

Final exam: 40%

# Links

## Moodle

- Lectures

<https://elms.u-aizu.ac.jp/course/view.php?id=6870>

- Exercises

<https://elms.u-aizu.ac.jp/course/view.php?id=6905>

## Syllabus

[https://web-ext.u-aizu.ac.jp/official/curriculum/syllabus/2024\\_1\\_E\\_013.html#SS12396](https://web-ext.u-aizu.ac.jp/official/curriculum/syllabus/2024_1_E_013.html#SS12396)

# Contact

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