

# Automata, Languages and Computation

## Academic Year 2023-24

### Course presentation & information

Master Degree in Computer Engineering  
University of Padua  
Lecturer : Giorgio Satta

<https://stem.elearning.unipd.it/course/view.php?id=6403>

## Giorgio Satta

satta@dei.unipd.it

<http://www.dei.unipd.it/~satta/>

## Class hours

Wed 10:30–12:30, **under email appointment**

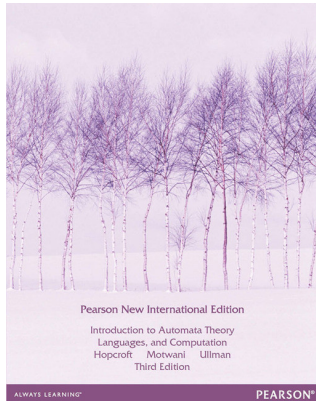
DEI/G, fourth floor

Zoom Meeting <https://unipd.zoom.us/j/99361872422>

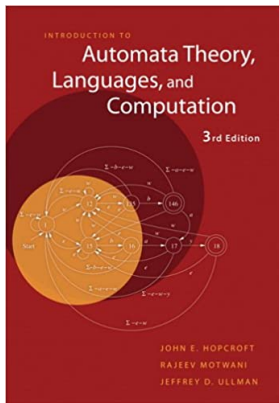
# Schedule

	<b>Tue</b>	<b>Wed</b>	<b>Fri</b>
10:30–11:30		office hours	
11:30–12:30		office hours	
12:30–13:30	room Ae	room Ce	room Ae
13:30–14:30	room Ae	room Ce	room Ae

Introduction to Automata Theory, Languages, and Computation  
John E. Hopcroft, Rajeev Motwani, Jeffrey D. Ullman  
Third edition, Pearson New International Edition (Europe)



Introduction to Automata Theory, Languages, and Computation  
John E. Hopcroft, Rajeev Motwani, Jeffrey D. Ullman  
Third edition, Addison-Wesley Longman Publishing Co. (United States, same content)



Exercise collection with **solutions**, available through class home page



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University of Padua  
Department of Information Engineering  
Master Degree in Computer Engineering

Automata, Languages and Computation

**SELECTED EXERCISES  
WITH SOLUTIONS**

Additional resources, **consultation only**

- Electronic forum for technical discussion
- Introduction to the Theory of Computation  
Michael Sipser  
Thomson Course Technology

Home assignments to be worked out **individually**

**No** use of solutions from previous academic years

**No** use of textbook/class notes during finals



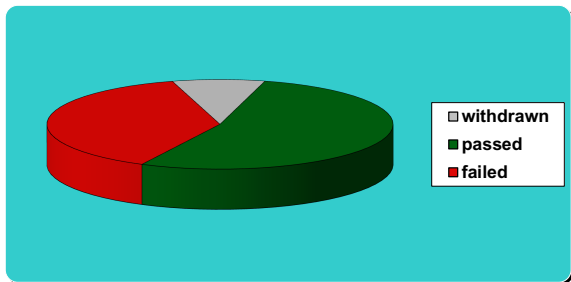
# Content outline

Preliminaries	Chpt 1	02 hours
Regular languages	Chpts 2–4	24 hours
Context-free languages	Chpts 5–7	22 hours
Turing machines	Chpts 8–10	24 hours
		<b>72 hours</b>

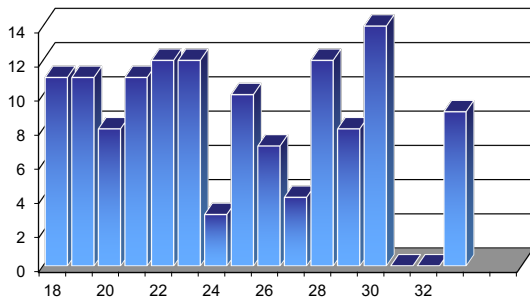
Written test, no oral test

Public correction at the end of final test; students with strongly negative evaluation are kindly requested to withdraw their own test

Academic year 2022-23



Academic year 2022-23



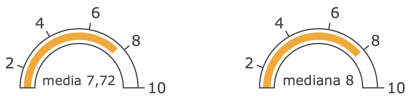
Academic year 2022-23

	<b>w/d</b>	<b>subm</b>	<b>fail</b>	<b>pass</b>	<b>acpt</b>
01/25/2023	14	107	40	67	63%
02/13/2023	04	88	42	46	52%
07/03/2023	01	28	14	14	50%
13/09/2023	05	31	10	21	<b>67%</b>

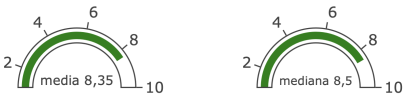
Academic year 2022-23



Satisfaction



Teaching



Course Organization

