

DSAI - Artificial Intelligence - Course Material

This document provides material for each of the elements of the "Structure Course AI" document.

Lesson	Topic	Format	File	Source	Comments
1	Introduction to AI	slides	Lesson1-WhatisAI.pdf	Russell&Norvig	
2	History of AI	slides	Lesson2-HistoryofAI-slides.pdf	Di Caro	
		reading	Lesson2-HistoryofAI-reading.pdf	BBC	
3	Intelligent agents	slides	Lesson3-Intelligent-Agents.pdf	Russell&Norvig	
4	Intelligent agents	slides	Lesson4-Intelligent-Agents-Search	Russell&Norvig	
5	Decision making	slides	Lesson5-DecisionMaking.pdf	Russell&Norvig	Previously called "Decision tree"
6	Decision making	slides	Lesson6-DecisionMaking.pdf	Russell&Norvig	
	Decision making	reading	Russell&Norvig Chapter 16-18	Russell&Norvig	
	Decision making	assignment	Assignment-DecisionMaking.pdf	Kauchak	
7	Heuristic algorithms	slides	Lesson7-Heuristics.pdf	Russell&Norvig	
8	Predicate logic	slides	Lesson8-Logic.pdf	Russell&Norvig	
9	Inference in Predicate logic	slides	Lesson9-Logic.pdf	Russell&Norvig	
10	Logical agents	slides	Lesson10-LogicalAgents.pdf	Russell&Norvig	Previously called "Unification and resolution"
11	Prolog	slides	Lesson11-Prolog.pdf	Ghaderi&Bacchus	
12	Prolog	slides	Lesson12-Prolog	Ghaderi&Bacchus	
	Prolog	reading	SWI Prolog reference Manual	SWI-Prolog	
	Prolog	assignment	Assignment-Prolog.pdf	Stefanovic	
13	Bayesian networks	slides	Lesson13-Bayesian.pdf	Russell&Norvig	
14	Bayesian networks	slides	Lesson14-Bayesian.pdf	Russell&Norvig	
		reading	Russell&Norvig Chapter 13-14	Russell&Norvig	
	Bayesian networks	assignment	Assignment-Bayesian.pdf	Velikova	
15	Markov decision networks	slides	Lesson15-16-Markov.pptx	Klein&Abbeel	
16	Markov decision networks	slides	Lesson15-16-Markov.pptx	Klein&Abbeel	
17	Temporal reasoning	slides	Lesson17-18-Temporalreasoning.p	Russell&Norvig	
18	Temporal reasoning	slides	Lesson17-18-Temporalreasoning.p	Russell&Norvig	
	Temporal reasoning	reading	Russell&Norvig Chapter 15	Russell&Norvig	
	Temporal reasoning	assignment			
19	Scheduling	slides	Lesson19-Scheduling.pdf	Russell&Norvig	
20	Scheduling	slides	Lesson20-Scheduling.pdf	Russell&Norvig	
	Exam		Example-exam1.pdf	TU Delft	
	Exam		Example-exam2.pdf	Princeton	

Sources

BBC	https://www.bbc.co.uk/teach/ai-15-key-moments-in-the-story-of-artificial-intelligence/zh77cqt
Ghaderi&Bacchus	Hojjat Ghaderi and Fahiem Bacchus, University of Toronto, CSC384: Intro to Artificial Intelligence http://www.cs.toronto.edu/~sheila/384/w11/Prolog/prolog-tutorial-part1.pdf and http://www.cs.toronto.edu/~sheila/384/w11/Prolog/prolog-tutorial-part2.pdf
Di Caro	Gianni A. Di Caro, CMU Qatar, https://web2.qatar.cmu.edu/~gdicaro/15381/additional/short-history-AI.pdf
Klein&Abbeel	Dan Klein and Pieter Abbeel, UC Berkeley CS188 Intro to AI http://ai.berkeley.edu/course_schedule.html
Russell&Norvig	Stuart Russell and Peter Norvig, Artificial Intelligence: A Modern Approach, 3rd edition, 2009
SWI-Prolog	Ulle Endris, An Introduction to Prolog Programming, https://staff.fnwi.uva.nl/u.endriss/teaching/prolog/prolog.pdf
TU Delft	IN4oloTU, https://ch.tudelft.nl/choice2/api/v1/document/exam/1694
Princeton	Rob Schapire, COS 402: Artificial Intelligence, https://www.cs.princeton.edu/courses/archive/fall05/cos402/final/sample.pdf
Velikova	Marina Velik http://cs.ru.nl/~marinav/Teaching/BDMInAI/assign112-13.pdf
Stefanovic	Darko Stefanovic, https://www.cs.unm.edu/~darko/classes/2002s-451/prolog-1.pdf
Kauchak	David Kauchak, CS451-f13, https://cs.pomona.edu/~dkauchak/classes/f13/cs451-f13/assignments/assign2.pdf