CS7637: Optional Reading List (Fall 2015)

Reading Title	Location	File Type
What is AI anyway?	T-Square Resources (AI-GoelDavies- Week1.pdf)	PDF
Russell & Norvig, Ch. 1 Section 1	T-Square Resources (Russel+and+Norvig+Ch+1-1.pdf)	PDF
The Cognitive Systems Paradigm	T-Square Resources (Langley-paradigm - Week2.pdf)	PDF
Four views of intelligence	http://www.pbs.org/wgbh/nova/body/what-is-intelligence.html	HTML
The Knowledge Level	http://www.aaai.org/ojs/index.php/aimagazine/article/download/99/98	PDF
An Alternative to the Turing Test	http://arxiv.org/pdf/1410.6142v1.pdf	PDF
Putting Online Learning and Learning Sciences Together	https://www.youtube.com/watch?v=N56ghCGmWWQ	Video
Understanding the Natural and Artificial Worlds	http://courses.washington.edu/thesisd/documents/Kun_Herbert%20Simon_Sciences_of_the_Artificial.pdf	PDF
Winston Chapter 2, pp. 16-32	http://courses.csail.mit.edu/6.034f/ai3/rest.pdf	PDF
Winston Chapter 3, pp. 47-50	http://courses.csail.mit.edu/6.034f/ai3/rest.pdf	PDF
Winston Chapter 3, pp. 50-60	http://courses.csail.mit.edu/6.034f/ai3/rest.pdf	PDF
A Gentle Introduction to SOAR	T-Square Resources (GentleIntroductionToSOAR-ExtraReading_Rules_.pdf)	PDF
Winston Chapter 7, pages 119-137	http://courses.csail.mit.edu/6.034f/ai3/rest.pdf	PDF
Winston Chapter 8, 163-171	http://courses.csail.mit.edu/6.034f/ai3/rest.pdf	PDF
Winston Chapter 9, pages 179-182, 202-206	http://courses.csail.mit.edu/6.034f/ai3/rest.pdf	PDF
Winston Chapter 19	http://courses.csail.mit.edu/6.034f/ai3/rest.pdf	PDF
These Robots Learn How to Cook by Watching YouTube	http://www.techtimes.com/articles/24407/20150103/these-robots-learn-how-to-cook-by-watching-youtube-forget-m	HTML
The wonderful and terrifying implications of computers that can learn	http://www.ted.com/talks/jeremy_howard_the_wonderful_and_terrifying_implications_of_computers_that_can_lear	Video
Design, innovation, and case-based reasoning	T-Square Resources (Casse Based Reasoning 3.pdf)	PDF
Case-Based Reasoning: An Overview	T-Square Resources (case_based_reasoning_an_overview _1_.pdf)	PDF
Kolodner, Introduction to Case-Based Reading	T-Square Resources (Case Based Reasoning 1.pdf)	PDF
Case-Cased Reasoning: A Love Story	https://www.youtube.com/watch?v=UMJyZnfqwYQ	Video
Winston Chapter 16, pages 349-358	http://courses.csail.mit.edu/6.034f/ai3/rest.pdf	PDF
Stefik, Chapter 7, Part 1	T-Square Resources (Stefik- Classification Part1 _Pgs 543-556_.pdf)	PDF
Stefik, Chapter 7, Part 2	T-Square Resources (Stefik Classification Part 2_Pgs 588-596_.pdf)	PDF
Winston Chapter 13	http://courses.csail.mit.edu/6.034f/ai3/rest.pdf	PDF
Winston Chapter 15, pages 323-336;	http://courses.csail.mit.edu/6.034f/ai3/rest.pdf	PDF
Russell & Norvig Chapter 11, Section 3	Russell Norvig Section 11.3.pdf	PDF
Winston Chapter 10, pages 209-220	http://courses.csail.mit.edu/6.034f/ai3/rest.pdf	PDF
Winston Chapter 10, pages 221-228	http://courses.csail.mit.edu/6.034f/ai3/rest.pdf	PDF
Schank & Abelson, Scripts, Plans and Knowledge	http://www.psychedout.org/uploads/2/7/9/7/27978279/schank_abelson_scripts_1975.pdf	PDF
Winston Chapter 17	http://courses.csail.mit.edu/6.034f/ai3/rest.pdf	PDF
The Structure-Mapping Engine: Algorithm and Examples	T-Square Resources (Analogical Reasoning 1.pdf)	PDF
Use of design patterns in analogy-based design	T-Square Resources (Analogical Reasoning 2.pdf)	PDF
Winston Chapter 20	http://courses.csail.mit.edu/6.034f/ai3/rest.pdf	PDF
Winston Chapter 12, pages 249-266	http://courses.csail.mit.edu/6.034f/ai3/rest.pdf	PDF

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Stefik, Chapter 8 Parts 1	T-Square Resources (Stefik Configuration Part 1_Pgs 608-621_.pdf)	PDF
Stefik, Chapter 8, Part 2	T-Square Resources (Stefik Configuration Part 2_Pgs 656-666_.pdf)	PDF
Stefik, Chapter 9	T-Square Resources (Stefik Diagnosis _Pgs 670-690_.pdf)	PDF
Winston Chapter 18	http://courses.csail.mit.edu/6.034f/ai3/rest.pdf	PDF
Metacognition in Computation: A selected research review	T-Square Resources (Meta Reasoning 2.pdf)	PDF
Meta-case-based reasoning: self-improvement through self-understandin	T-Square Resources (Meta Reasoning 3.pdf)	PDF
A Knowledge-Based Selection Mechanism for Control with Application in	T-Square Resources (Maeta Reasoning 1.pdf)	PDF
Metacognitive Tutoring for Inquiry-Driven Modeling	http://www.davidjoyner.net/blog/wp-content/uploads/2015/02/Joyner-Metacognitive-Tutoring-for-Inquiry-Driven-Mo	PDF
Reasoning about Space	T-Square Resources (STEFIK Visuospatial reasoning _Pgs 432-442_.pdf)	PDF
The Painting Fool: Stories from Building an Automated Painter	T-Square Resources (Computational Creativity 1.pdf)	PDF
An Illustrated Conversation in Autism, Art and Creativity	https://www.youtube.com/watch?v=yGUyid94DYg	Video
The Ethics of Artificial Intelligence	T-Square Resources (AIEthics.pdf)	PDF
If machines are capable of doing almost any work humans can do, what	T-Square Resources (AI Ethics - 2.html)	HTML
OIL: Ontology Infrastructure to Enable the Semantic Web	T-Square Resources (Semantic Web - 3.pdf)	PDF
The Semantic Web	T-Square Resources (p01_theSemanticWeb.pdf)	PDF
Semantic Web Services	T-Square Resources (Semantic Web - 2.pdf)	PDF
Knowledge Representation	http://www.cogsci.northwestern.edu/courses/cg207-2004/Readings/Markman_chapter_1.pdf	PDF
Prometheus Viral Clip #1 (TED Talk 2023)	https://www.youtube.com/watch?v=jb7gspHxZiI&index=2&list=PL2295F7EB6A2BA479	Video
David's Birth	https://www.youtube.com/watch?v=cWmbqH_z7jM&index=3&list=PL2295F7EB6A2BA479	Video
Learning about Representational Modality: Design and Programming Proj	http://www.aaai.org/ocs/index.php/EAAI/EAAI13/paper/viewFile/6414/6413	PDF
The AI Revolution: The Road to Superintelligence	http://waitbutwhy.com/2015/01/artificial-intelligence-revolution-1.html	HTML
Geometry, Drawings, Visual Thinking, and Imagery: Towards a Visual Tur	http://dilab.gatech.edu/test/wp-content/uploads/2015/04/Goel-AAAI2015-VisualTuringTest-PubInfo.pdf	PDF
Confident Reasoning on Raven's Progressive Matrices Tests	http://dilab.gatech.edu/test/wp-content/uploads/2014/11/ConfidentReasoningRavensAAAI2014Final.pdf	PDF
Visual problem solving in autism, psychometrics, and AI: the case of the	https://smartech.gatech.edu/bitstream/handle/1853/47639/kunda_maithilee_201305_phd.pdf	PDF
Analogical mapping and inference with binary spatter codes and sparse d	http://pure.ltu.se/portal/files/43047876/BlerimEmruli_2013b.pdf	PDF
A Bayesian model of rule induction in Raven's progressive matrices	https://cocosci.berkeley.edu/tom/papers/Little_WMCRavens.pdf	PDF
Reasoning on the Raven's advanced progressive matrices test with iconic	https://mindmodeling.org/cogsci2012/papers/0321/paper0321.pdf	PDF
Modeling multiple strategies for solving geometric analogy problems	http://www.andrewlovett.net/Papers/CogSci12_GeoAnalogy_Final.pdf	PDF
Solving geometric proportional analogies with the analogy model HDTP	http://cogsci.uni-osnabrueck.de/~krumnack/publications/COGSCI-2009.pdf	PDF
Raven Progressive Matrices	T-Square Resources (Raven-RavenProgressiveMatrices.pdf)	