

AlphaGo

- ☒ ~~finish methods section of the paper AlphaGo~~
- ☒ ~~alert only current bullet~~
- ☒ ~~pic & screenshots of nets~~
- ☒ ~~show soueces in the footnotes of presentation~~
- ☒ ~~set background color = white~~
- ☒ ~~UpperCase for All Frametitles~~
- ☒ ~~know~~
 - ☒ ~~the sigmoid function~~
 - ☒ ~~internals of neural network~~
- ☒ ~~bring to Spring School~~
 - ☒ ~~Shampoo~~
 - ☒ ~~dee~~
 - ☒ ~~Swimsuit~~
 - ☒ ~~Towel~~
 - ☒ ~~vitaminy~~
 - ☒ ~~Swiss choco~~
 - ☒ ~~jidle / svacinky~~
 - ☒ ~~holeni~~
 - ☒ ~~wireless mouse~~
 - ☒ ~~USB flash~~
 - ☒ ~~Frisbee~~
 - ☒ ~~svihadlo~~
 - ☒ ~~workout sheet~~
 - ☒ ~~poker set~~
 - ☒ ~~poker cap~~
 - ☒ ~~ESFR magazin pro Jirku~~
- ☒ ~~presentation/README~~
 - ☒ ~~copy README.md to README_mtheme.md~~
 - ☒ ~~create custom README.md~~
- ☒ ~~video~~
 - ☒ ~~YT~~

- ☒ ~~YT-agt~~
- ☒ ~~github-agt~~
- ☒ ~~on 3 slideshares~~
- ☒ ~~ha.matfyz.cz~~
 - ☒ ~~video~~
 - ☒ ~~slideshares~~
- ☒ ~~send final ppt and video~~
 - ☒ ~~spring~~
 - ☒ ~~Michal Pokorny~~
 - ☒ ~~Tomas Valla~~
 - ☒ ~~Tomas Svab~~
 - ☒ ~~Milan Hladik~~
 - ☒ ~~Jiri Vyskocil~~
 - ☒ ~~GERN Deep Learning~~
 - ☒ ~~Petr Vyhlas~~
 - ☒ ~~Singularity~~
 - ☒ ~~WS but why~~
- ☒ ~~intro (title slide)~~
 - ☒ ~~my mum heard the news, even though she's neither a scientist nor an engineer~~
 - ☒ ~~no spoilers for people who read news or handouts in advance~~
 - ☒ ~~final scores against humans~~
- ☒ ~~cool AI apps~~
 - ☒ ~~spam-email~~
 - ☒ ~~text completion on Smartphone~~
 - ☒ ~~painting AI~~
 - ☒ ~~bibtex source in the footer~~
 - ☒ ~~recommender systems~~
 - ☒ ~~recognizers: Shazam, Soundhound~~
 - ☒ ~~source code generation~~
 - ☒ ~~music generation~~
 - ☒ ~~<https://twitter.com/deepdrumpf> by [author] from MIT~~
 - ☒ ~~\cite-url~~
 - ☒ ~~ATARI game player~~

- ☒ url to Public lect by DS
- ☒ ~~xkcd comics: man vs. AI in games~~
- ☒ ~~poker: limit texas holdem solved~~
- ☒ supervised learning
 - ☒ training
 - ☒ regression
 - ☒ E. Watson
 - ☒ overfitting
 - ☒ ~~mention KGS as the data set~~
 - ☒ MSE
- ☒ reinforcement learning
 - ☒ picture / scheme by DS
- ☒ MCTS
 - ☒ ~~tree search~~
 - ☒ size of tree
 - ☒ ~~googol times more nodes than chess~~
 - ☒ ~~tackled by heuristics~~
 - ☒ ~~← neural nets ~ human expertise / knowledge~~
 - ☒ MCTS
 - ☒ MCTS rollout = ?
- ☒ neural nets
 - ☒ ~~← optimize (in general non-convex) function~~
 - ☒ general (1st slide)
 - ☒ (stochastic) gradient descent
 - ☒ quote: You learn by mistakes!
 - ☒ DNN
 - ☒ ~~hierarchy of reading letters (Kurzweil)~~
 - ☒ ~~coined the "deep" in "Deep learning"~~
 - ☒ CNN
 - ☒ DCNN
 - ☒ use df from the paper: They use many layers of neurons, ...
- ☒ rules of Go
 - ☒ psychology

- ☒ Backgammon: man vs. chance (dice)
- ☒ Chess: man vs. man (tactics)
- ☒ Go: man vs. himself (strategy & positioning)
 - ☒ cite Robert Samal vs Karel Kral
- ☒ two rules
 - ☒ include diagrams
- ☒ komi(dashi)
- ☒ scoring
- ☒ Go ranks
 - ☒ kyu / dan ~ karate, jiu jitsu
 - ☒ ELO rating ~ chess, TopCoder
- ☒ choco break??
- ☒ AlphaGo: inside out
 - ☒ dreaming: Figure 5 when explaining
 - ☒ rollout policy
 - ☒ 2 us insted of 3ms for SL
 - ☒ SL policy net
 - ☒ 13 layer
 - ☒ 30 million positions (dataset from KGS Go Server)
 - ☒ Search
 - ☒ Figure 3
 - ☒ (CPU and GPU)
 - ☒ strong in...
 - ☒ plots: figure 2
- ☒ results
 - ☒ Figure 2 → strength
 - ☒ tournament
 - ☒ mention <http://pachi.or.cz/>
 - ☒ vs Fan Hui
 - ☒ vs LS
 - ☒ different from Fan Hui: LS would beat FH in 97/100 games
 - ☒ Lee Sedol's quote: "I'm sure..."
- ☒ conclusion

- ☒ ~~nothing in the alg is specific to Go → solve general problems~~
- ☒ ~~Thank you! Questions without pause~~
- ☒ ~~Robert vs Karel picture~~
- ☒ ~~backup slides~~
 - ☒ ~~diagrams of games between A vs. Fan Hui~~
 - ☒ ~~diagrams of games between A vs. Lee Sedol~~
 - ☒ ~~further reading~~
 - ☒ ~~AI~~
 - ☒ ~~AI w8 but why~~
 - ☒ ~~<https://youtu.be/hPKJBXkyTKM>~~
 - ☒ ~~Singularity is Near~~
 - ☒ ~~RL~~
 - ☒ ~~<http://reinforcementlearning.ai-depot.com/>~~
 - ☒ ~~Machine Learning~~
 - ☒ ~~2-min papers~~
 - ☒ ~~Neuroscience~~
 - ☒ ~~<http://www.brainfacts.org/>~~
 - ☒ ~~Comb Game Theory~~
 - ☒ ~~Deep Learning~~
 - ☒ ~~DeepMind~~
 - ☒ ~~Atari Player~~
 - ☒ ~~Deep Q Learning~~
 - ☒ ~~Neural Turing Machine~~
 - ☒ ~~AlphaGo~~
 - ☒ ~~<http://googleresearch.blogspot.cz/2016/01/alphago-mastering-ancient-game-of-go.html>~~
 - ☒ ~~<http://www.nature.com/news/google-ai-algorithm-masters-ancient-game-of-go-1.19234>~~
 - ☒ ~~https://www.reddit.com/r/baduk/comments/49y17z/the_true_strength_of_alphago/~~
 - ☒ ~~references~~
 - ☒ ~~AlphaGo @opt seminar~~
 - ☒ ~~omez. podminky @Hladik~~
 - ☒ ~~handout @Hladik?~~

- ☒ ~~couch surfing Jiri Vyskocil~~
- ☒ ~~event on Fb~~
- ☒ ~~dl Atari video~~
 - ☒ ~~http://www.clipconverter.cc/convert/_0GtrilG/~~
- ☒ ~~test \printbibliography (does it show extra?)~~
- ☒ ~~remove~~
 - ☒ ~~autoreply~~
 - ☒ ~~baby names~~
 - ☒ ~~deephear~~
 - ☒ ~~1-frame Gepheus~~
 - ☒ ~~deep networks~~
 - ☒ ~~NNs' board evals → backup slides~~
- ☒ ~~add~~
 - ☒ ~~Why GNN?~~
 - ☒ ~~Ke Jie~~
 - ☒ ~~Artist AI 3~~
 - ☒ ~~Opt Seminar, 20th April 2016~~
 - ☒ ~~<https://youtu.be/NJarxpYyoFI>~~
 - ☒ ~~Martin Mueller's Dissertation~~
 - ☒ ~~<https://youtu.be/qWefiPi9gUU>~~
 - ☒ ~~SL vs UL: better explanation: pics?~~
 - ☒ ~~Lee Sedol vs AlphaGo (YouTube)~~
 - ☒ ~~Game of Thrones Generated~~
- ☒ ~~say~~
 - ☒ ~~Overfitting~~
 - ☒ ~~From time to time it might work. One such example is prof. Loeb, where you have chances of passing exams by simply memorizing everything.~~
 - ☒ ~~If you tried the same trick with my supervisor, Milan Hladik, you would fail. Terribly.~~
 - ☒ ~~Samal vs Kral~~
 - ☒ ~~two strongest players of Spring~~
 - ☒ ~~perhaps because they were the only players there~~
 - ☒ ~~Hladik~~
 - ☒ ~~1-dan Aikido~~

- ☒ good handshake
- ☒ professional or amateur dan
- ☒ bring
 - ☒ choco
 - ☒ articles
 - ☒ mouse
 - ☒ USB with pdfs
 - ☒ tricks
 - ☒ kefile
 - ☒ raven beer
 - ☒ contact lenses
- ☒ @T. Svab BIRTHDAY!!!
- ☒ @P. Vyhlas
- ☒ backup slides
 - ☒ YT vs Lee Sedol
- ☒ git commit all
- ☒ upload SlideShare
- ☒ href on
 - ☒ ha.matfyz.cz
 - ☒ CV @ ShareLaTeX
- ☒ send to Spring et al.
- ☒ handout
 - ☒ AlphaGo
 - ☒ include overview picture
 - ☒ put σ et other labels of nets
 - ☒ Thm: superhuman lvl
 - ☒ proof: see section Results in the presentation
- ☒ AlphaGo @DISCO ETHZ
 - ☒ reduce to 15 min
 - ☒ Gephelus
 - ☒ 3 pauses
 - ☒ move slide 15: Eval Accuracy → Backup Slides

- ☒ ~~www.goratings.org~~
 - ☒ ~~update~~
- ☒ ~~bring to Zurich~~
 - ☒ ~~el. konverter~~
 - ☒ ~~laptop, nabijecka~~
 - ☒ ~~mobil, nabijecka~~
 - ☒ ~~USB drive~~
 - ☒ ~~check AlphaGo for the last time~~
- ☒ ~~bring from Zurich~~
 - ☒ ~~checco from Spruengli~~
- ☒ ~~Thank you slide~~
 - ☒ ~~ABBA background~~
 - ☒ ~~I'm happy to be welcomed in your DISCO group...~~
 - ☒ ~~... and thank you for the music of your ideas~~