**Danh sách tài liệu về Reinforcement Learning**

1. **Tài liệu nhập môn**

1. Reinforcement Learning Documents: <https://drive.google.com/drive/folders/1whxUMWijdCAnMhjS7t-rKhEJMTNy2Ikx?usp=sharing>

2. Sách của: [http://incompleteideas.net/book/the-book-2nd.htm](http://incompleteideas.net/book/the-book-2nd.html)[l](http://incompleteideas.net/book/the-book-2nd.html%7d%7b/underline%7bR),

<https://sites.ualberta.ca/~szepesva/rlbook.html> (more math),

<http://lavalle.pl/planning/> (Planning & robotics),

<http://www.statslab.cam.ac.uk/~james/Markov/> (Markov chains),

và video lectures của*:* [*https://www.davidsilver.uk/teaching/*](https://www.davidsilver.uk/teaching/)

3. Tutorial dành cho người bắt đầu: [https://medium.com/emergent-future/simple-reinforcement-learning-with-tensorflow-part-0-q-learning-with-tables-and-neural-networks-d195264329d0](https://medium.com/emergent-future/simple-reinforcement-learning-with-tensorflow-part-0-q-learning-with-tables-and-neural-networks-d195264329d0?fbclid=IwAR31_s41_1O8E0qCkFQf0w8tNIGK7EnxCw_cJBPl-nfn4rOGAww2XfgFm8g)

1. **Tài liệu tham khảo khác**

1. Xe tự hành (Self-driving cars) : <https://selfdrivingcars.mit.edu> (deepRL for autonomous driving cars)

2. Quản lý tiêu thụ điện (Managing electricity consumption):

[https://environment.google/projects/machine-learning](https://environment.google/projects/machine-learning/%7d%7b/underline%7bGoogle) (<https://sustainability.google/>)

3.Hệ thống gợi ý: <https://arxiv.org/abs/1805.02343> - ví dụ trong quảng cáo: đặt panels sao cho xác suất người dùng click lớn nhất (contextual bandit problems), trong hệ thống newsfeed ta đọc hàng ngày.

4. Hệ thống hỏi đáp (Visual question answering): <http://visualqa.org>,

+ Hệ thống tự sinh hội thoại (deep RL for chatbots, e.g., Google <https://ai.googleblog.com/2018/05/duplex-ai-system-for-natural-conversation.html>),

+ Tóm tắt văn bản <https://www.salesforce.com/products/einstein/ai-research/tl-dr-reinforced-model-abstractive-summarization/>)

5. Vô địch cờ vây (Go world champion): <https://deepmind.com/research/case-studies/alphago-the-story-so-far> và các computer games <https://deepmind.com/research/publications/human-level-control-through-deep-reinforcement-learning>).

6. Tự sinh các mạng neuron để giải quyết các bài toán ML (Using autogenous neural network to solve Machine Learning algorithms)

(<https://ai.googleblog.com/2017/05/using-machine-learning-to-explore.html>), Neural architecture search ([https://github.com/me/enas](https://github.com/melodyguan/enas%7d%7b/underline%7bNAS%7d%7d)%25)) (dẫn đầu bởi Lê Viết Quốc)

7. Tự đặt lệnh mua bán chứng khoán (Automatic stock trades): <https://www.newsmax.com/finance/streettalk/jpmorgan-robots-stock-trades/2017/08/01/id/805123/>