

参 考

刘闯

chuangliu@whu.edu.cn

2020.03.09

参考 blog

1. 从图(Graph)到图卷积(Graph Convolution): 漫谈图神经网络模型 (一): https://www.cnblogs.com/SivilTaram/p/graph_neural_network_2.html
2. 如何通俗易懂地解释卷积? : <https://www.zhihu.com/question/22298352>
3. 如何理解傅里叶变换公式? : <https://www.zhihu.com/question/19714540>
4. 傅立葉分析專題 : <https://ccjou.wordpress.com/>
5. 拉普拉斯矩阵与拉普拉斯算子的关系 : <https://zhuanlan.zhihu.com/p/85287578>
6. 如何理解 Graph Convolutional Network (GCN) ? : <https://www.zhihu.com/question/54504471>
7. 何时能懂你的心——图卷积神经网络 (GCN) : <https://zhuanlan.zhihu.com/p/71200936>
8. 解读三种经典GCN中的Parameter Sharing : <https://zhuanlan.zhihu.com/p/72373094>
9. GRAPH CONVOLUTIONAL NETWORKS: <https://tkipf.github.io/graph-convolutional-networks/>
10. A comprehensive survey on graph neural networks : <https://blog.acolyer.org/2019/02/06/a-comprehensive-survey-on-graph-neural-networks/>

参考 blog

11. How to do Deep Learning on Graphs with Graph Convolutional Networks : <https://towardsdatascience.com/how-to-do-deep-learning-on-graphs-with-graph-convolutional-networks-7d2250723780>
12. Notes about GCN Sampling : <https://yanghan.life/2019/09/08/Notes-about-GCN-Sampling/>
13. 从源头探讨 GCN 的行文思路 : <https://zhuanlan.zhihu.com/p/78466344>
14. GraphSAGE: 我寻思GCN也没我牛逼 : <https://zhuanlan.zhihu.com/p/74242097>
15. FastGCN openreview : <https://openreview.net/forum?id=rytstxWAW>
16. Tutorial on graph neural networks for computer vision: <https://medium.com/@BorisAKnyazev/tutorial-on-graph-neural-networks-for-computer-vision-and-beyond-part-1-3d9fada3b80d>
17. Graph nets, https://github.com/deepmind/graph_nets
18. 图卷积网络 GCN Graph Convolutional Network (谱域GCN) 的理解 : <https://blog.csdn.net/yyl424525/article/details/100058264# 1211>
19. 蒙特卡洛方法与定积分计算 : <https://cosx.org/2010/03/monte-carlo-method-to-compute-integration/>
20. Probability spaces : <https://www.countbayesie.com/blog/2015/8/30/picture-guide-to-probability-spaces>

参考 blog

21. Knowing Your Neighbours: Machine Learning on Graphs : <https://www.kdnuggets.com/2019/08/neighbours-machine-learning-graphs.html>
22. GNN 开卷有益与再谈图卷积: <https://zhuanlan.zhihu.com/p/101310106>
23. 图神经网络的表征能力有多强? <https://swarma.org/?p=16450>
24. GNN 教程: Weisfeiler-Leman 算法 <https://archwalker.github.io/blog/2019/06/22/GNN-Theory-WL.html>
25. 入门图深度学习 : <https://mp.weixin.qq.com/s/hyHUkiEyXGn3v-M0d0igVg>
26. 复杂网络的双曲嵌入 : <https://pattern.swarma.org/path?id=7>
27. 双曲空间模型 : <http://wiki.swarma.net/index.php?title=%E5%8F%8C%E6%9B%B2%E7%A9%BA%E9%97%B4%E6%A8%A1%E5%9E%8B&variant=zh>
28. Poincaré圆盘模型: 一个神奇的双曲世界 : <https://blog.csdn.net/matrix67/article/details/4780218>
29. 《Graph Neural Networks多强大?》阅读笔记 : <https://zhuanlan.zhihu.com/p/62006729>
30. 图系列|图网络学习从入门到进阶: 系列相关优质文章与资料汇总 : <https://zhuanlan.zhihu.com/p/104631376>

参考 blog

- 31. 为什么要进行图嵌入Graph embedding? :
- 32. 图上的预训练任务 : <https://archwalker.github.io/>
- 33. 图表示学习方法的鲁棒性

参考 报告PPT

1. **A BRIEF INTRODUCTION TO GRAPH CONVOLUTION**
Zhizhong LI , Dec 20, 2018
2. **The Laplacian Matrix of a Graph , Chapter**
3. **Advancements in Graph Neural Networks , Jure Leskovec**
4. **Representation Learning on Networks , WWW-18 Tutorial, Jure Leskovec**
5. **CE7454 : Deep Learning for Data Science Lecture 14: Graph Neural Networks , Xavier Bresson, Nanyang Technological University (NTU), Singapore**
6. **Graph Neural Network Review, By Wu Tianlong**
7. **Structured deep models: Deep learning on graphs and beyond, By Thomas Kipf, 25 May 2018**
8. **Graph Neural Networks: Models and Applications, , IBM Research, AAAI 2020**

参考 报告PPT

- 9. Cognitive Graph for Understanding, Reasoning, and Decision, **Tang Jie**, Tsinghua University
- 10. Graph Neural Networks and Applications—A Review, **Tang Jie**, Tsinghua University
- 11. Geometric deep learning on graphs and manifolds, Yann LeCun