**Tutorials for Heterogeneous Graph**

CIKM 2019 Recent Developments of Deep HIN Analysis

[https://github.com/Jhy1993/Representation-Learning-on-Heterogeneous-Graph](https://link.zhihu.com/?target=https%3A//github.com/Jhy1993/Representation-Learning-on-Heterogeneous-Graph)

**Heterogeneous Graph Embedding**

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4. Sheng Zhou, Jiajun Bu, Xin Wang, Jiawei Chen, Bingbing Hu, Defang Chen, Can Wang. **HAHE: Hierarchical Attentive Heterogeneous Information Network Embedding.** ArXiv 2019. [paper](https://link.zhihu.com/?target=https%3A//arxiv.org/abs/1902.01475)
5. Yuanfu Lu, Chuan Shi, Linmei Hu, Zhiyuan Liu. **Relation Structure-Aware Heterogeneous Information Network Embedding.** AAAI 2019. [paper](https://link.zhihu.com/?target=http%3A//shichuan.org/doc/63.pdf)
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10. Ke Tu, Peng Cui, Xiao Wang, Fei Wang, Wenwu Zhu. **Structural Deep Embedding for Hyper-Networks** AAAI 2018. [paper](https://link.zhihu.com/?target=https%3A//arxiv.org/abs/1711.10146)
11. Rana Hussein, Dingqi Yang, Philippe Cudré-Mauroux. **Are Meta-Paths Necessary? Revisiting Heterogeneous Graph Embeddings.** CIKM 2018. [paper](https://link.zhihu.com/?target=https%3A//dl.acm.org/citation.cfm%3Fid%3D3271777)
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13. Meng Qu, Jian Tang, Jiawei Han. **Curriculum Learning for Heterogeneous Star Network Embedding via Deep Reinforcement Learning.** WSDM 2018.[paper](https://link.zhihu.com/?target=http%3A//hanj.cs.illinois.edu/pdf/wsdm18_mqu.pdf)
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**Heterogeneous Graph Neural Network**

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**Heterogeneous Graph Embedding based Application**

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7. Linmei Hu, Tianchi Yang, Chuan Shi, Houye Ji, Xiaoli Li.**Heterogeneous Graph Attention Networks for Semi-supervised Short Text Classification.** EMNLP 2019. [paper](https://link.zhihu.com/?target=http%3A//shichuan.org/doc/73.pdf)
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12. Yujie Fan, Shifu Hou, Yiming Zhang, Yanfang Ye, Melih Abdulhayoglu **Gotcha - Sly Malware! Scorpion: A Metagraph2vec Based Malware Detection System.** KDD 2018.
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