

Instruction

Let us make contributions to the community together! First, you need to log in your GitHub (<https://github.com/>) and find the repository (<https://github.com/XiaoxiaoMa-MQ/Awesome-Deep-Graph-Anomaly-Detection>). Then, it is easy for you to follow the instruction to add your paper into **README.md** of this popular GitHub repository. Your submission will appear on the main page soon, and you will be recognized as a contributor to this repository.

XiaoxiaoMa-MQ / Awesome-Deep-Graph-Anomaly-DetectionPublic

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XiaoxiaoMa-MQ Update README.mdLatest commit 35a8ec4 2 days agoHistory

201 Lines (158 sloc)16.5 KB

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1. Click to Edit Content

Awesome-Deep-Graph-Anomaly-Detection

A collection of papers on deep learning for graph anomaly detection, and published algorithms and datasets.

- Awesome-Deep-Graph-Anomaly-Detection
 - A Timeline of graph anomaly detection
 - Surveys
 - Anomalous Node Detection
 - Anomalous Edge Detection
 - Anomalous Sub-graph Detection
 - Anomalous Graph-Level Detection
 - Other Graph-Mining-Based Anomaly Detection Methods
 - Open-sourced Graph Anomaly Detection Libraries
 - Datasets
 - Mostly-used Benchmark Datasets
 - Citation/Co-authorship Networks
 - Social Networks

Awesome-Deep-Graph-Anomaly-Detection / README.mdin mainCancel changes

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```
49 | A survey on social media anomaly detection[https://dl.acm.org/doi/pdf/10.1145/2980705.2980705] | _SIGKDD_ | 2016 |
50 | Graph-based anomaly detection and description: A survey[https://idp.springer.com/authorize/casa?
  redirect_uri=https://link.springer.com/article/10.1007/s10618-014-0365-y] | _Data Min. Knowl. Discovery_ | 2015 |
51 | Anomaly detection in online social networks[https://www.sciencedirect.com/science/article/pii/S0378873314000331] | _Soc. Networks_ | 2014 |
52 | A survey of outlier detection methods in network anomaly identification[https://academic.oup.com/comjnl/article-pdf/54/4/570/1024761/bxr026.pdf] |
  _Comput. J._ | 2011 |
53 | Anomaly detection: A survey[https://dl.acm.org/doi/pdf/10.1145/1541880.1541882] | _ACM Comput. Surv._ | 2009 |
54
55 -----
56
57 ## Anomalous Node Detection
58
59 | Paper Title | Venue | Year | Model | Code |
60 | ----- | --- | :--- | :--- | :--- |
61 | Anomaly detection on attributed networks via contrastive self-supervised learning[https://ieeexplore.ieee.org/iel7/5962385/6104215/09395172.pdf] |
  _TNWLS_ | 2021 | - | - |
62 | Cross-domain graph anomaly detection[https://ieeexplore.ieee.org/iel7/5962385/6104215/09556511.pdf] | _TNWLS_ | 2021 | <center>--</center> |
  <center>--</center> |
63 | Fraudre: Fraud detection dual-resistant to graph inconsistency and imbalance[https://ieeexplore.ieee.org/document/9679178] | _ICDM_ | 2021 | Fraudre
  |[Code](https://github.com/FraudDetection/FRAUDRE) |
64 | Few-shot network anomaly detection via cross-network meta-learning[https://dl.acm.org/doi/pdf/10.1145/3442381.3449922] | _WWW_ | 2021 | <center>--
  </center> | <center>--</center> |
65 | One-class graph neural networks for anomaly detection in attributed networks[https://idp.springer.com/authorize/casa?
  redirect_uri=https://link.springer.com/article/10.1007/s00521-021-05924-9] | _NCA_ | 2021 | OCGNN |[Code](https://github.com/WangXuhongCN/OCGNN) |
66 | Error-bounded graph anomaly loss for gnnsl[https://dl.acm.org/doi/pdf/10.1145/3340531.3411979] | _CIKM_ | 2021 | - | - |
67 | Decoupling representation learning and classification for gnn-based anomaly detection[https://dl.acm.org/doi/pdf/10.1145/3404835.3462944] | _SIGIR_
  | 2021 | DCI | - |
68 | Resgcn: Attention-based deep residual modeling for anomaly detection on attributed networks[https://link.springer.com/article/10.1007/s10994-021-
  00044-0] | _ML_ | 2021 | Resgcn |[Code](https://bitbucket.org/paulpei/resgcn/src/master/) |
69 | Selective network discovery via deep reinforcement learning on embedded spaces[https://appliednetsci.springeropen.com/articles/10.1007/s41109-021-
  00365-8] | _AWS_ | 2021 | NAC | - |
70 | A deep multi-view framework for anomaly detection on attributed networks[https://ieeexplore.ieee.org/iel7/69/4358933/09162509.pdf] | _TKDE_ | 2020 |
  ALARM | - |
71 | Enhancing graph neural network-based fraud detectors against camouflaged fraudsters[https://dl.acm.org/doi/pdf/10.1145/3340531.3411903] | _CIKM_ |
  2020 | CARE-GNN |[Code](https://github.com/YingtongDou/CARE-GNN) |
72 | Outlier resistant unsupervised deep architectures for attributed network embedding[https://dl.acm.org/doi/pdf/10.1145/3336191.3371788] | _WSDM_ |
```

4. Preview the changes before submission

Preview

Awesome-Deep-Graph-Anomaly-Detection

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 - Social Networks
 - Co-purchasing Networks
 - Transportation Networks
- Tools

Commit changes

added paper: xxxx to readme.md

Add an optional extended description...

☒ Commit directly to the main branch.
☐ Create a new branch for this commit and start a pull request. [Learn more about pull requests.](#)

Commit changesCancel

5. Submit Changes

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).

base repository: XiaoxiaoMa-MQ/Awesome-D...base: mainhead repository: neolyo/Awesome-Deep-Grap...compare: patch-1

✓ Able to merge. These branches can be automatically merged.

Discuss and review the changes in this comparison with others. [Learn about pull requests](#)

Create pull request

1 commit1 file changed1 contributor

Commits on Jun 16, 2022

update readmeVerified70f530e

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

base repository: XiaoxiaoMa-MQ/Awesome-D...base: mainhead repository: neolyo/Awesome-Deep-Grap...compare: patch-1

✓ Able to merge. These branches can be automatically merged.

update readme

WritePreview

H B I

Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

☒ Allow edits by maintainers

7. Finish submission

Create pull request

Remember, contributions to this repository should follow its [contributing guidelines](#).

Contributors

New Contributor