

BigNet 2018 Chairs' Welcome

It is our great pleasure to welcome you to the 2018 International Workshop on Learning Representations for Big Networks (BigNet@WWW2018). This is the third edition of the BigNet workshop series, following its inauguration at the 25th ACM International Conference on Information and Knowledge Management (CIKM 2016) and the second edition at the 26th International World Wide Web Conference (WWW 2017).

Recent years have witnessed the emergence of network representation learning research. Different from the feature engineering process in conventional analysis, network representation learning, also known as network embedding, aims to learn the latent low-dimensional representations for objects in networks, such as nodes, links, and groups. Its ultimate objective is to encode networks' structural properties into the latent representations, benefiting all existing network mining tasks, such as node classification, link prediction, community detection, etc. In the BigNet 2018 workshop, we aim to provide a forum for presenting the most recent advances in network representation learning to unearth rich knowledge.

The call for papers attracted submissions from the United States, Europe, and Asia. Each submission was reviewed by at least four reviewers. After a rigorous reviewing process, we were able to accept ten papers (five as regular papers and the other five as non-archived presentations). In addition, the workshop features four keynotes delivered by leading experts in big network analysis from both academia and industry:

- Jon Kleinberg, Cornell University, USA
- Kuansan Wang, Microsoft Research, USA
- Jure Leskovec, Stanford University, USA
- Paul Groth, Elsevier Labs, The Netherlands

We believe that the program provides a good balance between several trending topics in the emerging field of representation learning on networks.

We would like to thank all participants of the workshop for making it happen, as well as The Web Conference 2018 organizers and ACM for their support. We hope that you will find the program attractive and thought-provoking and that the workshop will provide you with a valuable opportunity to share ideas with other researchers and practitioners from institutions around the world. We are looking forward to a very exciting and rewarding workshop.

Jie Tang

*BigNet Co-Chair
Tsinghua University*

Yuxiao Dong

*BigNet Co-Chair
Microsoft Research, Redmond*

Michael Cochez

*BigNet Co-Chair
Fraunhofer Institute for
Applied Information
Technology*

Michalis Vazirgiannis

*BigNet Co-Chair
École Polytechnique*

Fragkiskos D. Malliaros

*BigNet Co-Chair
CentraleSupélec*

Mayank Kejriwal

*BigNet Co-Chair
Information Sciences Institute,
USC*



Achim Rettinger

*BigNet Co-Chair
Karlsruhe Institute of Technology*

BigNet 2018 Organization

Workshop/Track Chairs: Jie Tang (*Tsinghua University, China*)
Michalis Vazirgiannis (*École Polytechnique, France*)
Yuxiao Dong (*Microsoft Research Redmond, USA*)
Fragkiskos D. Malliaros (*CentraleSupélec, France*)
Michael Cochez (*Fraunhofer Institute for Applied Information Technology, Germany*)
Mayank Kejriwal (*University of Southern California, USA*)
Achim Rettinger (*Karlsruhe Institute of Technology, Germany*)

Program Committee: James Foulds (*University of Maryland, Baltimore County, USA*)
William Hamilton (*Stanford University, USA*)
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Apostolos N. Papadopoulos (*Aristotle University of Thessaloniki*)
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Jian Tang (*HEC Montreal & MILA, Canada*)
Jiliang Tang (*Michigan State University, USA*)
Nikolaos Tziortziotis (*École Polytechnique, France*)
Baichuan Zhang (*Facebook, USA*)

