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RESEARCH INTERESTS

Blockchains, Data Analysis, Social Computing, Machine Learning.

EDUCATION

PhD., Computer Science   Saarbrücken, DE

Max Planck Institute for Software Systems - MPI-SWS   August, 2018 - present
Networked Systems Research group

- My research (supervised by Dr. Krishna P. Gummadi) focuses on transaction commit times on proof-of-work blockchains.

M.Sc., Computer Science   Belo Horizonte, BR

Universidade Federal de Minas Gerais - UFMG   March, 2015 - June, 2017
Laboratório de Computação Social - LoCuS

- Two-year program. My research was supervised by Dr. Fabrício Benevenuto.
- Thesis: Characterizing Interconnections and Linguistic Patterns in Twitter.

B.Sc., Exchange Program   Budapest, HU

Eötvös Loránd University - ELTE   July, 2013 - September, 2014

- Granted with a scholarship from the Brazilian Scientific Exchange Program (Science without Borders - CAPES) in Budapest, Hungary, spending fourteen months studying in an European University.

B.Sc., Computer Science   Ouro Preto, BR

Universidade Federal de Ouro Preto - UFOP   March, 2009 - December, 2014

- Four-year program, Total Grade: 8/10.
- Thesis: Framework Para Sistemas de Navegação de Veículos Aéreos Não Tripulados.

PRESS

Some of my scientific efforts have been covered by news media and specialized blogs, including The New York Times, The Huffington Post, MIT Tech Review, BBC Brasil, Nexo, and Folha de São Paulo.

Journal

1. Kulshrestha, J., Eslami, M., **Messias, J.**, Zafar, M.B., Ghosh, S., Gummadi, K.P. and Karahalios, K., 2019. Search bias quantification: investigating political bias in social media and web search. Information Retrieval Journal, 22(1-2), pp.188-227.

2. Mondal, M., **Messias, J.**, Ghosh, S., Gummadi, K.P. and Kate, A., 2017. Managing longitudinal exposure of socially shared data on the Twitter social media. International Journal of Advances in Engineering Sciences and Applied Mathematics, 9(4), pp.238-257.

3. **Messias, J.**, Diniz, J.P., Soares, E., Ferreira, M., Araújo, M., Bastos, L., Miranda, M. and Benevenuto, F., 2017. An evaluation of sentiment analysis for mobile devices. Social Network Analysis and Mining, 7(1), p.20.

4. Mondal, M., **Messias, J.**, Ghosh, S., Gummadi, K. and Kate, A., 2017. Longitudinal Privacy Management in Social Media: The Need for Better Controls. IEEE Internet Computing.

5. **Messias, J.**, Schmidt, L., Oliveira, R. and Benevenuto, F., 2013. You followed my bot! Transforming robots into influential users in Twitter.

Conference

1. Resende, G., Melo, P., Sousa, H., **Messias, J.**, Vasconcelos, M., Almeida, J. and Benevenuto, F., 2019, May. (Mis) Information Dissemination in WhatsApp: Gathering, Analyzing and Countermeasures. In The World Wide Web Conference (pp. 818-828). ACM.

2. Melo, P., **Messias, J.**, Resende, G., Garimella, K., Almeida, J. and Benevenuto, F., 2019, July. WhatsApp Monitor: A Fact-Checking System for WhatsApp. In Proceedings of the International AAAI Conference on Web and Social Media (Vol. 13, No. 01, pp. 676-677).

3. Ribeiro, F.N., Saha, K., Babaei, M., Henrique, L., **Messias, J.**, Benevenuto, F., Goga, O., Gummadi, K.P. and Redmiles, E.M., 2019, January. On microtargeting socially divisive ads: A case study of russia-linked ad campaigns on facebook. In Proceedings of the Conference on Fairness, Accountability, and Transparency (pp. 140-149). ACM.

4. Resende, G., **Messias, J.**, Silva, M., Almeida, J., Vasconcelos, M. and Benevenuto, F., 2018, October. A System for Monitoring Public Political Groups in WhatsApp. In Proceedings of the 24th Brazilian Symposium on Multimedia and the Web (pp. 387-390). ACM.

5. **Messias, J.**, Vikatos, P. and Benevenuto, F., 2017, August. White, man, and highly followed: Gender and race inequalities in Twitter. In Proceedings of the International Conference on Web Intelligence (pp. 266-274). ACM.

6. Reis, J., Kwak, H., An, J., **Messias, J.** and Benevenuto, F., 2017, July. Demographics of news sharing in the us twittersphere. In Proceedings of the 28th ACM Conference on Hypertext and Social Media (pp. 195-204). ACM.

7. Vikatos, P., **Messias, J.**, Miranda, M. and Benevenuto, F., 2017, July. Linguistic diversities of demographic groups in Twitter. In Proceedings of the 28th ACM Conference on Hypertext and Social Media (pp. 275-284). ACM.

8. Chakraborty, A., **Messias, J.**, Benevenuto, F., Ghosh, S., Ganguly, N. and Gummadi, K.P., 2017, May. Who makes trends? understanding demographic biases in crowdsourced recommendations. In Eleventh International AAAI Conference on Web and Social Media.

9. Kulshrestha, J., Eslami, M., **Messias, J.**, Zafar, M.B., Ghosh, S., Gummadi, K.P. and Karahalios, K., 2017, February. Quantifying search bias: Investigating sources of bias for political searches in social media. In Proceedings of the 2017 ACM Conference on Computer Supported Cooperative Work and Social Computing (pp. 417-432). ACM.

10. **Messias, J.**, Benevenuto, F., Weber, I. and Zagheni, E., 2016, August. From migration corridors to clusters: The value of Google+ data for migration studies. In Proceedings of the 2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (pp. 421-428). IEEE Press.

11. **Messias, J.**, Diniz, J.P., Soares, E., Ferreira, M., Araujo, M., Bastos, L., Miranda, M. and Benevenuto, F., 2016, August. Towards sentiment analysis for mobile devices. In 2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM) (pp. 1390-1391). IEEE.

12. Mondal, M., **Messias, J.**, Ghosh, S., Gummadi, K.P. and Kate, A., 2016. Forgetting in social media: Understanding and controlling longitudinal exposure of socially shared data. In Twelfth Symposium on Usable Privacy and Security (SOUPS 2016) (pp. 287-299).

13. Silva, L. A. A., Messias, J., Moro, M. M., Melo, P. O. S. V., Benevenuto F., 2015, June. Algoritmos de Aprendizado de Máquina para Predição de Resultados de Lutas de MMA. SBBD (Short Papers) (pp. 21-26).

14. **Messias, J.**, Magno, G., Benevenuto, F., Veloso, A. and Almeida, V., 2015, October. Brazil Around the World: Characterizing and Detecting Brazilian Emigrants Using Google+. In Proceedings of the 21st Brazilian Symposium on Multimedia and the Web (pp. 85-91). ACM.

15. Gonçalves, P., Dalip, D.H., Reis, J.C., **Messias, J.**, Ribeiro, F. and Melo, P., 2015. Bazinga! caracterizando e detectando sarcasmo e ironia no twitter. In In Proceedings of the Proceedings of the Brazilian Workshop on Social Network Analysis and Mining (BraSNAM) (p. 3).

16. **Messias, J.**, Benevenuto, F. and Oliveira, R., 2018. Bots Sociais: Como robôs podem se tornar pessoas influentes no Twitter?. Revista Eletrônica de Iniciação Científica em Computação, 16(1).

17. **Messias, J.**, Schmidt, L., Oliveira, R. and Benevenuto, F., 2012. Sigam-me os bons! Transformando robôs em pessoas influentes no Twitter. BraSNAM, Curitiba, PR, Brazil.

Other

1. **Messias, J.**, 2017. Characterizing Interconnections and Linguistic Patterns in Twitter. M.Sc. Thesis, Universidade Federal de Minas Gerais - UFMG.

2. **Messias, J.**, 2014. Framework Para Sistemas de Navegação de Veículos Aéreos Não Tripulados. B.Sc. Thesis, Universidade Federal de Ouro Preto - UFOP.