

Onur VAROL

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Faculty of Engineering and Natural Sciences
Sabanci University, Istanbul Turkey

RESEARCH INTERESTS

My research focuses on developing techniques to analyze **online behaviors** to improve **individual well-being** and address **societal problems** using online data. I leverage online and offline data to gain insight on human behaviors, analyze technological systems to mitigate threats against online conversations by developing techniques in **machine learning**, **network science**, and **computational social sciences**.

APPOINTMENTS

Sabanci University, Istanbul, Turkey
Assistant Professor, Faculty of Engineering and Natural Sciences, Computer Science and Engineering (January 2021, —)
Faculty Member, Center of Excellence in Data Analytics (January 2021, —)
Northeastern University, Boston, Massachusetts, USA
Postdoctoral Researcher, **Center for Complex Network Research** (July 2017, July 2020)
NSF I-Corps Site Fellow, Center for Entrepreneurship Education (January 2019, May 2019)
Indiana University, Bloomington, Indiana, USA
Teaching Assistant (December 2017, May 2017)
Research Assistant (August 2012, December 2017)

EDUCATION

Indiana University, Bloomington, Indiana, USA
Ph.D., Informatics, Complex Systems Track and minor in Statistics, (June 2017)
Dissertation: Analyzing Social Big Data to Study Online Discourse and its Manipulation
Awarded for University Distinguished Ph.D. Dissertation Award for 2018 in the Social Sciences
Committee: Filippo Menczer, Alessandro Flammini, Yong-Yeol Ahn, Christine Ogan, Weihua An
Koç University, Istanbul, Turkey
M.Sc., Computer Science and Engineering, (July 2012)
Thesis: Modal analysis of Myosin II and Identification of Functionally Important Sites
Advisors: Deniz Yuret, Alkan Kabakçioğlu
Istanbul Technical University, Istanbul, Turkey
B.Sc., Electronics Engineering, (June 2010)
B.Sc., Physics Engineering, (June 2012)

WORK EXPERIENCE

Data science consultant

I worked on various data science projects to support business intelligence, predictive analytics, and knowledge discovery by building machine learning pipelines, developing web platforms, and providing descriptive analysis and KPI reports. I was also a NSF I-Corps Site Fellow of the program organized by Center for Entrepreneurship Education at Northeastern University to receive training on transferring lab-based research to industry.

Microsoft Research, Redmond WA, USA

Research Intern (June 2015 - September 2015): I worked in the CLUES group at MSR. I studied social media timelines of individuals to detect experiential activities and analyzed outcomes of those actions. This project involved analyzing search query logs and social media timelines.

Microsoft Research, Redmond WA, USA

Research Intern (June 2014 - September 2014): I worked in the CLUES group at MSR. I studied how individuals in social networks adopt their behaviors to match with their inner intents. I carried out experiments on Amazon Mechanical Turk platform to justify our hypothesis at the micro level and analyzed Twitter data to validate effects at the macro level.

Stonefish Software Consultant, Istanbul, Turkey

Software Developer (August 2009 - March 2010): I worked on an enterprise web application development using C#, ASP.NET, and MSSQL.

GRANTS AND FUNDING

Active Research Grants

- CHIST-ERA, “2023-2026 CON-NET: Integrating CONTENT and NETWORK structure for detecting, understanding, and mitigating online misbehaviour” (2023-2026)
- TUBITAK 2247-D, “Developing systems for coordination and automated behavior detection on online social networks” (2022-2025)
- Sabanci University President’s Office Fund, “Observatory of Online Conversations and Belief Modeling” (2022-2025)

Completed Research Grants

- TUBITAK 1002, “Causal analysis of daylight saving time and quantifying its impact on wellbeing” (2021-2022)
- Sabanci University Integration Grant, “Collecting Social Media Data Streams and Experimentation of Online Networks” (2021-2023)

HONORS AND AWARDS

METU Parlar Foundation, Research Incentive Award (2023)
 The Turkish Science Academy **BAGEP** Young Scientist Award (2022)
 University Distinguished Ph.D. Dissertation Award for Indiana University 2018 in the Social Sciences
 Invited to attend and received travel support (800€) for the 7th Heidelberg Laureate Forum
 Invited to attend and full travel support for the Microsoft Research AI Breakthroughs event, 2018
 Fragile Families Challenge top scoring submission for progress prize
 Best paper award at Web Science Conference, 2014
 Best poster award at Conference on Complex Systems, 2015
 Research Assistantship Indiana University (2012-2016)
 Scholarship from TUBITAK (equivalent of NSF in Turkey) (2010-2012)
 Graduate scholarship from Koç University (2010-2012)
 Chamber of Electrical Engineers (EMO) Undergraduate Project Competition 1st place (2010)
 Bosch Scholarship for Undergraduate Education (2009)
 Istanbul Technical University Student Council Vice President (2009)
 Travel grants: SIGWEB for WebSci’16 (750\$), ICWSM’16 (350\$), ACM for COSN’14 (1,500\$), IU RKCISI for INFORMS’16 (500\$)

PUBLICATIONS

GOOGLE SCHOLAR
 CITATIONS: 8,690
 H-INDEX: 26
 I10-INDEX: 30

Journal Articles

- J.22 O.C. Seckin, **O. Varol** “**Academic Support Network Reflects Doctoral Experience and Productivity**”, EPJ Data Sci. 11, 57, 2022
- J.21 O. Bas, C. Ogan, **O. Varol** “**The Role of Legacy Media and Social Media in Increasing Public Engagement About Violence Against Women in Turkey**”, Appl Netw Sci 7, 54, 2022
- J.20 Wang, X., **Varol, O.**, Eliassi-Rad, T. “**Information Access Equality on Network Generative Models**” Applied Network Science 7, 54, 2022
- J.19 Singh, K., Lima, G., Cha, M., Cha, C., Kulshrestha, J., Ahn, Y. Y., **Varol, O.** “**Misinformation, Believability, and Vaccine Acceptance Over 40 Countries: Takeaways From the Initial Phase of The COVID-19 Infodemic**” Plos One, 17(2), e0263381, 2022
- J.18 Gysi D., Do Valle I., Zitnik M., Ameli A., Gan X., **Varol O.**, Sanchez H., Baron R., Ghiassian D., Loscalzo J., Barabasi AL. “**Network Medicine Framework for Identifying Drug Repurposing Opportunities for COVID-19**” *Proceedings of the National Academy of Sciences*, 118 (19) e2025581118, 2021
- J.17 Cha, M., Cha, C., Singh, K., Lima, G., Ahn, Y. Y., Kulshrestha, J., **Varol, O.** “**COVID-19 Infodemic Prevalence over 35 Countries**”. *JMIR Human Factors*, 2020
- J.16 Pasquetto, I, Swire-Thompson, B., Amazeen, M., Benevenuto, F., Brashier, N.M., Bond, R.M., Bozarth, L.C., Budak, C., Ecker, U.KH., Fazio, L.K., Ferrara, E., Flanagan, A.J., Flammini, A., Freelon, D., Grinberg, N., Hertwig, R., Jamieson, K.H., Joseph, K., Jones, J.J., Garrett, R.K., Kreiss, D., McGregor, S., McNealy, J., Margolin, D., Marwick, A., Menczer, F., Metzger, M.J., Nah, S., Lewandowsky, S., Lorenz-Spreen, P., Ortellado, P., Pennycook, G., Porter, E., Rand, D.G., Robertson, R., Tripodi, F., Vosoughi, S., Vargo, C., **Varol, O.**, Weeks, B.E., Wihbey, J., Wood, T.J., Yang, K.C. “**Tackling misinformation: What researchers could do with social media data**” *Harvard Kennedy School (HKS) Misinformation Review*, 1(8)., 2020
- J.15 Fragile Families Challenge Team “**Measuring the predictability of life outcomes with**

- a scientific mass collaboration” *Proceedings of the National Academy of Sciences*, 117.15: 8398-8403, 2020
- J.14 Gates A.J., Ke Q., **Varol O.**, Barabasi A.L. “Nature’s reach: narrow work has broad impact”, *Nature* (2019): 32-34.
- J.13 **O. Varol**, I. Uluturk “Journalists on Twitter: Self-branding, Audiences, and Involvement of Bots” *Journal of Computational Social Science*, 1-19, 2019
- J.12 X. Wang, B. Yucesoy, **O. Varol**, T. Eliassi-Rad, A.L. Barabasi “Success in Books: Predicting Book Sales Before Publication” *EPJ Data Science* 8.1: 31, 2019
- J.11 Yang K., **Varol O.**, Davis C., Ferrara E., Flammini A., Menczer F. “Arming the public with AI to counter social bots” *Human Behavior and Emerging Technologies*, 1(1), 48-61, 2019
- J.10 R. Fan, **O. Varol**, A. Varamesh, A. Barron, I. Leemput, M. Scheffer, J. Bollen “The minute-scale dynamics of online emotions reveal the effects of affect labeling”, *Nature Human Behavior*, 3.1: 92, 2019
- J.9 C. Shao, GL Ciampaglia, **O. Varol**, K. Yang, A. Flammini, F. Menczer “The spread of low-credibility content by social bots”, *Nature Communications* 9:4787, 2018
- J.8 **O. Varol**, I. Uluturk, “Deception Strategies and Threats for Online Discussions” *First Monday* 22(5), 2018
- J.7 **O Varol**, E Ferrara, F Menczer, A Flammini. “Early Detection of Promoted Campaigns on Social Media”. *EPJ Data Science* 6(13), 2017
- J.6 C. Ogan, **O. Varol** “What is gained and what is left to be done when content analysis is added to network analysis in the study of a social movement: Twitter use during Gezi Park”, *Information, Communication and Society* 20(8):1220-1238, 2017
- J.5 E Ferrara, **O Varol**, C Davis, F Menczer, A Flammini “The Rise of Social Bots”, *Communications of the ACM* 59(7):96-104, 2016
- J.4 Davis CA, Ciampaglia GL, Aiello LM, Chung K, Conover MD, Ferrara E, Flammini A, Fox GC, Gao X, Gonçalves B, Grabowicz PA, Hong K, Hui P, McCauley S, McKelvey K, Meiss MR, Patil S, Peli Kankanamalage C, Pentchev V, Qiu J, Ratkiewicz J, Rudnick A, Serrette B, Shiralkar P, **Varol O**, Weng L, Wu T, Younge AJ, Menczer F. “OSoMe: The IUNI observatory on social media”, *PeerJ Computer Science* 2: e87, 2016
- J.3 V.S. Subrahmanian, A. Azaria, S. Durst, V. Kagan, A. Galstyan, K. Lerman, L. Zhu, E. Ferrara, A. Flammini, F. Menczer, R. Waltzman, A. Stevens, A. Dekhtyar, S. Gao, T. Hogg, F. Kooti, Y. Liu, **O. Varol**, P. Shiralkar, V. Vydiswaran, Q. Mei, T. Huang. “The DARPA Twitter Bot Challenge”, *IEEE Computer* 49(6), 2016
- J.2 M JafariAsbagh, E Ferrara, **O Varol**, F Menczer, A Flammini “Clustering memes in social media streams”, *Social Network Analysis and Mining* 4(237):1-13, 2014
- J.1 **O. Varol**, D. Yuret, B. Erman, A. Kabakçioğlu “Mode coupling points to functionally important residues in Myosin II”, *PROTEINS: Structure, Function, and Bioinformatics* 82(9):1777-86, 2014

Refereed Conference Proceedings

Conferences are a main venue of research dissemination in computer science. Conference proceedings are peer-reviewed and acceptance rates for top-tier conferences range from 10-15%.

- C.15 M. Sayyadiharikandeh, **O. Varol**, K. Yang, A. Flammini, F. Menczer “Detection of Novel Social Bots by Ensembles of Specialized Classifiers”, CIKM’20
- C.14 Yang K., **Varol O.**, Hui P., Menczer F. “Scalable and Generalizable Social Bot Detection through Data Selection”, AAAI’20
- C.13 **Varol O.**, Davis C., Ferrara E., Menczer F., Flammini A. “Online Human-Bot Interactions: Detection, Estimation, and Characterization”, ICWSM’17
- C.12 Olteanu, A., **Varol, O.**, Kiciman, E. “What Does Social Media Say about the Outcomes of Personal Experiences”, CSCW’17
- C.11 Ferrara E., Wang W., **Varol O.**, Flammini A., Galstyan A. “Predicting online extremism, content adopters, and interaction reciprocity”, SocInfo’16
- C.10 **O Varol**, “Spatiotemporal Analysis of Censored Content on Twitter”. WebScience’16
- C.9 A Das, S Gollapudi, E Kiciman, **O Varol**, “Information Dissemination in Heterogeneous-Intent Networks”. WebScience’16

- C.8 E. Ferrara, **O Varol**, F Menczer, and A Flammini. “**Detection of Promoted Social Media Campaigns**”. ICWSM’16
- C.7 A Olteanu, **O Varol**, E Kiciman. “**Towards an Open-Domain Framework for Distilling the Outcomes of Personal Experiences from Social Media Timelines**”. ICWSM’16
- C.6 C Davis[†], **O Varol**[†], E Ferrara, A Flammini, F Menczer “**BotOrNot: A System to Evaluate Social Bots**”. WWW’16 Developers Day
- C.5 **O Varol**, E Ferrara, C Ogan, F Menczer, and A Flammini. “**Evolution of online user behavior during a social upheaval**”. WebScience’14 (Best paper award)
- C.4 **O Varol** and F Menczer. “**Connecting Dream Networks Across Cultures**”. WWW 2014 workshop on “Connecting Online & Offline Life” (COOL)
- C.3 Ferrara, E., **Varol, O.**, Menczer, F. & Flammini, A. “**Traveling Trends: Social Butterflies or Frequent Fliers?**”, ACM Conference on Online Social Networks (COSN 2013)
- C.2 E Ferrara, M JafariAsbagh, **O Varol**, V Qazvinian, F Menczer, A Flammini “**Clustering Memes in Social Media**”, ASONAM 2013
- C.1 Yasemin Alban; Tuba Ayhan; **Onur Varol**; Müştak Erhan Yalçın “**A Feature Filtering Method for EEG Data Classification**”, Signal Processing and Communications Applications (SIU), IEEE 19th Conference, Antalya, April 20-22 2011.

Book chapter

- B.1 **Varol O.**, Davis C., Menczer, F., Flammini, A. “**Feature Engineering for Social Bot Detection**”, Feature Engineering for Machine Learning and Data Analytics (2018): 311.

Patent

- P.2 “**Network Medicine Framework for Identifying Drug Repurposing Opportunities**” Deisy Morselli Gysi, Albert-Lszl Barabasi, Italo Faria Do Valle, **Onur Varol**, Xiao Gan, Asher Ameli, Joseph Loscalzo, Marinka Zitnik (2022). U.S. Patent Application No. 17/456,519.
- P.1 “**Peak sale and one year sale prediction for hardcover first releases**” Yucesoy, B., Wang, X., Barabasi, A. L., **Varol, O.**, Ruppert, P., Eliassi-Rad, T. (2019). U.S. Patent Application No. 16/012,181.

Preprints & Under review

- U.2 **O. Varol** “**Should we agree to disagree about Twitter’s bot problem?**”, ArXiv:2209.10006
- U.1 X. Wang, **O. Varol**, T. Eliassi-Rad “**L2P: Learning to Place for Estimating Heavy-Tailed Outcomes**”, ArXiv:1908.04628

CONDUCTED RESEARCH AND ACADEMIC EXPERIENCE

Teaching Experience

Sabanci University, Istanbul, Turkey

Machine Learning (Lecturer, Spring 2022, Fall 2023)
 Introduction to Data Science (Lecturer, Spring 2023)
 Network Science (Lecturer, Spring 2021 and Spring 2022)

Northeastern University, Boston MA, USA

Algorithms that Affect Lives (Guest Lecturer, Fall 2021)
 Algorithms that Affect Lives (Guest Lecturer, Fall 2020)
 Unsupervised Machine Learning and Data Mining (Guest Lecturer, Fall 2019)
 Data Mining Techniques (Guest Lecturer, Spring 2019 and Fall 2018)

Indiana University, Bloomington IN, USA

Topics in Informatics: Performance Analytics (Teaching Assistant, Spring 2017)

Koç University, Istanbul, Turkey

Machine Learning (Teaching Assistant, Spring 2012)
 Microprocessors (Teaching Assistant, Fall 2011)
 Probability and Random Variables (Teaching Assistant, Spring 2011)
 Discrete Mathematics (Teaching Assistant, Fall 2010)

Mentoring

Sabanci University, Istanbul, Turkey

Current members of the VRL Lab. Full list available on group website.

Nihat Mugurtay (Postdoctoral researcher, [Spring 2022, -])
 Yasser Zouzou (Data Science MSc student, [Spring 2022, -])
 Ali Najafi (Computer Science MSc student, [Spring 2022, -])
 Serhat Demirkiran (Data Science MSc student, [Spring 2022, -])
 Umut Duygu (Political Science MA student, [Spring 2021, -])
 Furkan Okuyucu (Data Science MSc student, [Spring 2021, -])
 Mutlu Soruklu (Data Science MSc student, [Spring 2021, -])
 Baris Temel (Data Science MSc student, [Spring 2021, Fall 2023])
 Ozgun Yargi (Data Science MSc student, [Spring 2021, Fall 2023])
 Ozgur Can Seckin (Data Science MSc student, [Spring 2021, Spring 2022])
 Mert Ozturk (Data Science MSc student, [Spring 2021, Spring 2022])
 Davut Bayik (Data Science MSc student, [Spring 2021, Spring 2022])

Northeastern University, Boston MA, USA

Xindi Wang (NetSI Phd student, [Spring 2017, Summer 2020])
 Sarthak Kothari (Data science MSc. student, [Summer 2019, Spring 2020])
 Omair Ahmed (Data science MSc. student, [Fall 2019, Spring 2020])

Indiana University, Bloomington IN, USA

Mohsen Sayyadi (Computer Science PhD student, [Spring 2018, Summer 2020])
 Kaicheng Yang (Informatics PhD student, [Spring 2017, Spring 2020])
 Zoher Kachwala (Computer Science MSc student, Spring 2018)
 Shradha Baranwal (Computer Science MSc student, Spring 2018)

TALKS AND
EVENTS

Organized Workshops or Tutorials

- Identifying Networks of Social Bots on Twitter Conversations, Summer Institute of Computational Social Science (SICSS) [youtube.com/watch?v=7mlVxf6VIVY](https://www.youtube.com/watch?v=7mlVxf6VIVY) (Teleconference, 2020/06/19)
- Workshop on *Misinformation and Social Bots* at the 7th Heidelberg Laureate Forum (2019/09/23)

Invited Talks

- Panelist for “Fact Checking, Fake News and Bot Detection” session, Global Politics in the Age of Computational Propaganda Online Conference (Online, 2021/05/06)
- Modeling individual and group behavior in complex interactive systems, GESIS (Online, 2021/01/19)
- Modeling individual and group behavior in complex interactive systems, Center for Research on Globalization, Peace and Democratic Governance (Online, 2021/01/05)
- Modeling individual and group behavior in complex interactive systems, The University of Edinburgh, Scotland (Online, 2020/03/30)
- Modeling individual and group behavior in complex interactive systems, Aalto University, Finland (Online, 2020/03/16)
- Modeling individual and group behavior in complex interactive systems, Vanderbilt University, USA (2020/02/12)
- Modeling individual and group behavior in complex interactive systems, Bilkent University, Turkey (2019/10/08)
- Modeling individual and group behavior in complex interactive systems, Sabanci University, Turkey (2019/10/03)
- Modeling individual and group behavior in complex interactive systems, Kadir Has University, Turkey (2019/10/02)
- Modeling individual and group behavior in complex interactive systems, Koc University, Turkey (2019/10/01)
- Modeling individual and group behavior in complex interactive systems, University of Pittsburgh School of Computing and Information (2019/04/17)
- Detecting Social Bots and Modeling Online Behavior, Microsoft Research AI Breakthroughs, Redmond, USA (2018/09/17)
- Observatory of Social Media, Exploring Media Ecosystems Conference at MIT Media Lab (2017/03/06)
- Predicting adolescence academic performance through panel survey data, Fragile Families Challenge Scientific Workshop at Princeton University (2017/11/17)
- Observatory on Social Media: Investigating Bots and Disinformation, Digital Disinformation Forum Stanford (2017/06/26)

- The Impact of Censorship on Tweeting Behaviors, Indiana University Conference on Big Data and Network Science (2017/03/23)
- Studying Individuals and Groups using Online Data, Northeastern University Network Science Institute (2017/03/09)
- Analysis of Online Discourse and Information Diffusion, INFORMS Meeting Nashville (2016/11/15)
- Detection of Online Manipulation, UND Big Data Summit Event (2016/04/07)
- Twitter Applications: Industry Panel Speaker, UND Big Data Summit Event (2016/04/07)
- Campaign and Social Bots Detection on Social Networks, Workshop in Network Science (WINS) Indiana University (2016/02/18)
- Evolution of online user behavior during a social upheaval, Indiana University Turkish Flagship Center (2015/01/21)
- Studying Social Dynamics Through Social Media, Istanbul Technical University Physics Department Colloquia (2014/04/28)

Conference Presentations

- Journalists on Twitter: Self-branding, Audiences, and Involvement of Bots, Politics and Computational Social Science, Washington, DC. USA (2019-08-28)
- Detection, Estimation, and Characterization of Bot Nodes in Social Networks, Network Science Conference, Indianapolis USA (2017-06-21)
- Distilling the Outcomes of Personal Experiences from Social Media Timelines, International Conference on Computational Social Science, Evanston Illinois USA (2016-06-25)
- Information Dissemination in Heterogeneous-Intent Networks, Web Science Conference, Hannover Germany (2016-05-24)
- Evolution of Online User Behavior During Social Upheaval, Conference on Complex Systems (CCS), Tempe Arizona USA (2015-09-27)
- Connecting Dream Networks Across Cultures, COOL Workshop at World Wide Web (WWW) Conference, Seoul Korea (2014-04-08)

Turkish Outreach

- Seçim manipölasyonlari tespit edilebilir mi?, MedyaScope youtube.com/watch?v=130mHP5_ZTc (2022-10-20)
- Zararli Sosyal Medya Kampanyalari, Twitter Botlari ve Sosyal Riskleri Önleme Algoritmalar? breaker.audio/veri-tezgahi/e/76727081 (2020-10-23)
- Hesaplamali Sosyal Bilimler, Data Science Summer School at Sabanci University youtube.com/watch?v=H7iPfHNNHyo4 (2020-09-24)
- Sosyal Medyanin Problemleri, epiSTEM Türkiye Youtube Live youtube.com/watch?v=Mzj7r6F5mQ (2020-05-03)

COMPUTER AND LANGUAGE SKILLS

Programming Languages and Skills:

Frequent user of Python for data analysis using Matplotlib, NetworkX, Pandas, Scikit-learn, etc.
Experience in \LaTeX , C / C++, C#, Java, MATLAB, R, OpenBUGS
Familiar with HTML, CSS, JS for frontend, Flask, Django, and ASP.NET for larger applications
Used MySQL, NoSQL (CouchDB and Riak), Map-Reduce
View projects on Github: github.com/onurvarol

Languages: English (fluent), German (beginner), Turkish (native)

COMMUNITY SERVICE

Grant panels and ad-hoc reviews: Scientific and Technological Research Council of Türkiye (TUBITAK), ERC Starting Grant (2020), Bar Ilan Cyber Security Center (2019)

Editorial boards: Plos One (2022-); Area Editor for Online Social Networks and Media (2021-); Technical committee member for Online Social Networks and Media (2017-2020); Editorial board member of Human Behavior & Emerging Technologies (HBET);

Guest editor: Applied Network Science Special Issue on Epidemics, Dynamics & Control on Networks; Frontiers Special Research Topic on Identifying, Tracking, and Fact-Checking Misinformation

Conference organizing committee: IC2S2'20 Publication Chair

Satellite/Workshop co-organizer: Quantifying Success (Networks'20); Quantifying Success (NetSci'20); Open Science for an Open Society (CCS'16)

Journal reviewer: PNAS; Nature Scientific Reports; Nature Machine Intelligence; Communications of the ACM; EPJ Data Science; PLoS One; Network Science; Social Networks; Social Network Analysis and Mining; Communications Physics; Journal of Computational Social Sciences; Information, Communication and Society; PeerJ-CS; ACM Transactions on Social Computing; ACM Transactions on the Web; IEEE Transactions on Knowledge and Data Engineering; IEEE Access; IEEE Intelligent Systems; IEEE Communications Magazine; Big Data; First Monday; Journal of Medical Internet Research; Journal of the Royal Society Interface; Patterns; Computers in Human Behavior; Data Mining and Knowledge Discovery; Information; Online Information Review; Social Science Research; Social Science Computer Review; Online Social Networks and Media; Applied Network Science; International Journal of Information Management; International Journal of Public Opinion Research

Journal subreviewer: Science Advances; Nature Communications

Conference Senior PC member: HyperText'18; ICWSM'20/'21/'22

Conference PC member: WEB'17-'21; WSDM'19/'20/'21; ICWSM'17-'20; KDD'19; SDM'19; AAAI'21; WebSci'18/'19/'20; CHI'18; CSCW'18/'19; CompleNet'18-'22; NetSci'17-'20; NetSciX'20; SocInfo'17-'20; IC2S2'17-'21; ICCS'20; HyperText'17/'18/'19; DSAA'17/'18/'19

Workshop PC member: IEEE BigData'17/'18; SIGIR Demo'18;

Conference subreviewer: ICWSM'15; IC2S2'15; ASONAM'15; WebScience'14

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