

Call for papers

Social Computing and Data Mining (SCDM)

IEEE ICNC 2024

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<http://www.conf-icnc.org/2024>

Symposium Co-Chairs

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Scope

Social computing focus on analyzing and mining human behavior, topological structure and information diffusion in social networks to illustrate the essential mechanisms of macroscopic phenomena, discover potential public interest, and provide early warnings of collective emergencies. With the development of mobile sensing, computer networks and artificial intelligence in recent years, it is possible to collect an abundance of data from various social multimedia. Also, big data in social networks bring challenges in how to process social data and investigate human behavior. In addition, there are new and complex features in social networks, such as heterogeneous human properties, dynamic network structures and random interpersonal interactions. Therefore, advanced multidisciplinary data collection and data mining methods should be proposed for social computing and developed to study social networks.

The Social Computing and Data Mining (SCDM) focuses on the topics related to all aspects at the intersection of social behavior, computational systems, and data mining. Of special interest to the social computing aspect of SCDM are papers reporting on novel and practical solutions to social networks, mobile social sensing, service quality, trust, online auctions, modeling and analysis, reputation systems, computational social choice, collaborative tagging, and so on. Of special interest to the data mining aspect of SCDM are papers reporting in methodology of network representation and large-scale data mining, knowledge graph, machine learning, information retrieval, artificial intelligence in social contexts, and so on. To ensure complete coverage of the advances in this broad area, the Social Computing and Data Mining Symposium solicits original contributions in, but not limited to, the following topical areas:

- Social Networks
- Social Network Analytics
- Social Media Analytics and Intelligent Social Media
- Social Service Science, Quality, Architecture
- Pattern recognition of behaviors
- Trust and Privacy in Social Contexts
- Social Networks/Media/Service System Design and Architecture
- Mobile Social Sensing
- Social Intelligence
- Social Behavior Modeling and Analysis
- Social Behavior Synthesis
- Opinion Representation and Influence Process Modeling
- Reality Mining

- Big Data Analytics and Storage
- Statistical Data Mining
- Data Mining, Machine Learning, Information Retrieval, or Artificial Intelligence in Social Contexts
- Social Signal Processing System Design and Architectures

Submission Guidelines

Perspective authors should follow the instructions at <http://www.conf-icnc.org/2024/author.htm> to prepare their manuscripts. All papers should be submitted via EDAS. Submission information can be found at <http://www.conf-icnc.org/2024/cfp.htm>.

Short Biographies of Co-Chairs

Burak Kantarci received Ph.D degree in computer engineering in 2009. He is a Full Professor and the Founding Director of Smart Connected Vehicles Innovation Centre (SCVIC), and the Founding Director of the Next Generation Communications and Computing Networks (NEXTCON) Research Lab, University of Ottawa. He has coauthored over 250 publications in established journals and conferences, and 15 book chapters. He is well known for his contributions to the quantification of data trustworthiness in mobile crowd-sensing (MCS) systems, and game theoretic incentives to promote user participation in MCS campaigns with high value data; as well as AI-backed access control, authentication and machine learning-backed intrusion detection solutions in sensing environments. Repeatedly in 2021 and 2022, he was listed among Canada's top-computer scientists by research.com. Besides multiple best paper awards including but not limited to IEEE Globecom 2021 and 48th Wireless World Research Forum 2022, in January 2022, he was awarded a Minister's Award of Excellence in Innovation and Entrepreneurship from Ontario Ministry of Colleges and Universities. He served as the Chair of IEEE Communications Systems Integration and Modeling Technical Committee, and has served as the Technical Program Co-Chair/Symposium Co-chair of more than twenty international conferences/symposia/workshops, including IEEE Global Communications Conference (GLOBECOM)—Communications Systems QoS, Reliability and Modeling (CQRM) symposium. In 2021, he has been elected as the new Secretary of IEEE Social Networks Technical Committee. He is an Editor of the IEEE Communications Surveys & Tutorials, IEEE Internet of Things Journal, Vehicular Communications (Elsevier), and an Associate Editor for IEEE Networking Letters, and Journal of Cybersecurity and Privacy. He is Editor for several IEEE and Elsevier journals. He was an ACM Distinguished Speaker in 2019-2021, currently IEEE Snior Member and ACM Senior Member. He is IEEE Communications Society Distinguished Lecturer and IEEE Systems Council Distinguished Lecturer.

Bin Cao is a professor in the state key laboratory of network and switching technology at Beijing University of Posts and Telecommunications. He received the Ph.D. (Hons.) degree in communication and information systems from the National Key Laboratory of Science and Technology on Communications, University of Electronic Science and Technology of China in 2014. From July 2015 to July 2016, he was a research fellow at the National University of Singapore. He is an Associate Editor of IEEE Transactions on Mobile Computing, a Lead Guest Editor of IEEE Internet of Things Journal for Special Issue on Blockchain-enabled Internet of Things, and a cochair for big data track of IEEE Globecom 2022. He also served as Guest Editor of IEEE Sensors Journal, IEEE Transactions on Industrial Informatics, as well as symposium cochair for IEEE ICNC 2018, blockchain workshop cochair for CyberC 2019, IEEE Blockchain 2020 and TPC member for numerous conferences. He is the Founding Vice Chair of Special Interest Group on Wireless Blockchain Networks in IEEE Cognitive Networks Technical Committee. His research interests include blockchain system and internet of things, and he has extensive publications in IEEE/ACM Transactions on Networking, IEEE Transactions on

Parallel and Distributed Systems, IEEE Transactions on Mobile Computing, IEEE Transactions on Multimedia, IEEE Transactions on Vehicular Technology, IEEE Transactions on Industrial Informatics, IEEE Transactions on Cloud Computing, IEEE Internet of Things Journal, IEEE Sensors Journal, IEEE Communications Magazine, IEEE Wireless Communications, and IEEE Network, and three of them are ESI Hot/Highly Cited Papers.