



Advances in Data and Network Sciences Applied to Computational Social Science

Guest Editor:

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Message from the Guest Editor

Computational social science (CSS) is a research area devoted to the study of social phenomena represented by digital data using computational and statistical methods. CSS emerged after a computational revolution in social sciences caused by two main factors. First, new large-scale datasets allowed the study of human behavior that would not be possible using traditional methodological approaches used by social scientists (e.g., surveys and lab experiments). These datasets come from different sources such as social media, mobile phones, satellites, surveillance cameras, and all sorts of sensors. Second, faster computers and new computational techniques permitted the extraction of information from these huge behavioral datasets. Most of these techniques come from data and network sciences—two research areas in constant evolution and with many open questions. Some examples include complex data modeling, model selection in complex tasks, data biases, fairness, and forecasting. CSS also has many unanswered questions involving predictability, long-term impact, causality, interpretability, privacy, and ethics.





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Message from the Editor-in-Chief

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