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Multidimensional scaling of ideological landscape on social network sites DEOKJAE LEE, Department of Physics and Astronomy, Seoul National University, KYU S. HAHN, Department of Communication, Seoul National University, JUYONG PARK, Department of Physics, Kyung Hee University — Social network sites (SNSs) are valuable source of information on various subjects in network science. Recently, political activity of SNSs users has increasing attention and is an interesting interdisciplinary subject of physical and social science. In this work, we measure ideological positions of the legislators of U.S. and South Korea (S.K.) evaluated by Twitter users, using the information employed in the bipartite network structure of the legislators and their Twitter followers. We compare the result with ideological positions constructed from roll call record of the legislators. This shows there is a discrepancy between the ideological positions evaluated by Twitter users and actual positions estimated from roll call votes in S.K. We also asses the ideological positions of the Twitter users themselves and analyze the distribution of the positions.

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