|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Graph** | **Nodes** | **Edges** | **Description** | **Source** |
| 01\_dolphins | 62 | 159 | This dataset features an undirected social network representing frequent interactions among 62 dolphins inhabiting Doubtful Sound, New Zealand. | Lusseau D, Schneider K, Boisseau OJ, Haase P, Slooten E, Dawson SM. The bottlenose dolphin community of Doubtful Sound features a large proportion of long-lasting associations. Behav Ecol Sociobiol. 2003;54:396-405. |
| 02\_contiguous\_usa | 49 | 111 | This dataset represents the contiguous United States and the District of Columbia, consisting of 48 states and DC, excluding Alaska and Hawaii, with edges denoting shared borders between states. | Knuth DE. The Art of Computer Programming, Volume 4, Fascicle 0: Introduction to Combinatorial and Boolean Functions. Addison-Wesley; 2008. |
| 03\_moreno\_zebra | 28 | 118 | The undirected network depicts interactions among 28 Grévy's zebras in Kenya, with nodes representing individual zebras and edges signifying observed interactions during the study. | Sundaresan SR, Fischhoff IR, Dushoff J, Rubenstein DI. Network Metrics Reveal Differences in Social Organization Between Two Fission--Fusion Species, Grevy's Zebra and Onager. Oecologia. 2007;151(1):140-149. |
| 04\_simulated\_BlockModelGraph\_50Nodes | 50 | 319 | This dataset originates from the 2017 Streaming Partition Challenge, containing data streams with known truth partitions for evaluating community detection algorithms. | Samsi S, Gadepally V, Hurley M, Jones M, Kao E, Mohindra S, et al. Static graph challenge: Subgraph isomorphism. In: 2017 IEEE High Performance Extreme Computing Conference (HPEC); 2017 Sep; pp. 1-6. |
| 05\_simulated\_BlockModelGraph\_100Nodes | 100 | 778 | This dataset originates from the 2017 Streaming Partition Challenge, containing data streams with known truth partitions for evaluating community detection algorithms. | Samsi S, Gadepally V, Hurley M, Jones M, Kao E, Mohindra S, et al. Static graph challenge: Subgraph isomorphism. In: 2017 IEEE High Performance Extreme Computing Conference (HPEC); 2017 Sep; pp. 1-6. |
| 06\_football | 115 | 613 | This dataset features the network of Division IA college American football games that took place during the Fall 2000 regular season. | Girvan M, Newman MEJ. Community structure in social and biological networks. Proc Natl Acad Sci USA. 2002;99:7821-7826. |
| 07\_karate | 34 | 78 | This dataset presents the network of friendships among 34 members of a karate club at a US university. | Zachary WW. An information flow model for conflict and fission in small groups. J Anthropol Res. 1977;33:452-473. |
| 08\_lesmis | 77 | 254 | This dataset contains a weighted network of character coappearances in Victor Hugo's "Les Misérables," with nodes representing characters and edges connecting those who appear together in a chapter. | Knuth DE. The Stanford GraphBase: A Platform for Combinatorial Computing. Addison-Wesley; Reading, MA; 1993. |
| 09\_celegansneural | 297 | 2148 | This dataset represents a weighted, directed network depicting the neural network of C. Elegans. | Watts DJ, Strogatz SH. Collective dynamics of 'small-world' networks. Nature. 1998;393:440-442. |
| 10\_USAirLines | 332 | 2126 | This dataset consists of undirected weighted graphs representing US air flights between various airports. | Batagelj V, Mrvar A. Pajek datasets. Web page. 2006. Available from: http://vlado.fmf.uni-lj.si/pub/networks/data |