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in this paper we explore robust community detection by enhancing network structure with two generic algorithms presented one is named robust community detection via genetic algorithm robustecd ga in which the modularity and the number of clusters are combined in a fitness function to find the optimal structure enhancement scheme the robust structural design nonlinear structural analysis uncertainty processing cluster methods inverse problem decision making 1 problem specification robustness is one of the primary requirements to ensure a structure to operate faultless over a period of time and must thus be incorporated in the design process already reliable representations make a stronger defender unsupervised structure refinement for robust gnn robustness is the ability of a structure to withstand events like fire explosions impact or the consequences of human error without being damaged to an extent disproportionate to the original cause as defined in en 1991 1 7 of the accidental actions eurocode stable or robust what s the difference erica jen paper 02 12 069 exploring the difference between stable and robust touches on essentially every aspect of what we instinctively find interesting about robustness in natural engineering and social systems in this paper we explore robust community detection by enhancing network structure with two generic algorithms presented one is named robust community detection via genetic algorithm robustecd ga in which the modularity and the number of clusters are combined in a fitness function to find the optimal structure enhancement scheme the other graph structure learning for robust graph neural networks authors wei jin yao ma xiaorui liu xianfeng tang suhang wang jiliang tang authors info claims kdd 20 proceedings of the 26th acm sigkdd international conference on knowledge discovery data miningaugust 2020 pages 66 74 doi org 10 1145 3394486 3403049 in the context of codes and standards for structural design the term robustness has been used to indicate the ability of a structural system to resist damage under extreme loads graph structure learning gsl is then introduced for robustification which contains two major parts recovering the optimal graph and fine tuning the gnn parameters on this generated graph for the downstream task to improve the robustness of gnn models many studies have been proposed around the central concept of graph structure learning gsl which aims to jointly learn an optimized graph structure and corresponding representations in this study a macroscopically homogeneous but nanoscopically phase separated polymer matrix was designed as an electrolyte that can withstand a high concentration of lithium salt while retaining good mechanical properties and this study investigated changes in the li solvation structure within the electrolyte and analyzed the reasons for a robust structure is one that exhibits the ability to redistribute load and remain stable after localized but severe damage to key elements robustness can also be described as the ability to resist disproportionate or progressive collapse we propose an anion type water free zn 2 solvation structure electrolyte for developing a zn metal anode the chloride salt with bulky cations unlocks the zn 2 water interactions and a new solvation structure zncl 4 2 is formed without bound water robustness is a desirable property of structural systems which

mitigates their susceptibility to progressive collapse it is defined as the insensitivity of a structure to local failure to examine a structure in terms of its robustness a quantitative description by means of a measure would be useful xu b jiang w li l hrtt a hierarchical roof topology structure for robust building roof reconstruction from point clouds remote sensing 2017 9 4 354 doi org 10 3390 rs9040354 chicago turabian style in the world of investing robust is a characteristic describing a model s test s or system s ability to perform effectively while its variables or assumptions are altered a robust concept dual low rank structure embedding for robust visual information processing sciencedirect knowledge based systems available online 25 april 2024 111821 in press journal pre proof what s this dual low rank structure embedding for robust visual information processing author links open overlay panel jianhang zhou a c d hengmin zhang a the second author of this paper in presented robust design optimization rdo of blast excited reinforced concrete rc framed structure considering all parameters as probabilistic the authors pointed out that a more rational design can be achieved by modelling the uncertainty as interval type this structure is designed to address cloud noise interference more effectively in time series data while simultaneously capturing local and global features by using the multi head attention to globally model the entire time series the te can identify and suppress cloud noise effectively graph structure learning for robust graph neural networks wei jin yao ma xiaorui liu xianfeng tang suhang wang jiliang tang graph neural networks gnns are powerful tools in representation learning for graphs however recent studies show that gnns are vulnerable to carefully crafted perturbations called adversarial attacks

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