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(54) Title: ENHANCED HUMAN-COMPUTER INTERACTION SYSTEMS

(57) Abstract: Improved human-computer interaction methods, systems and displays are provided for integrating, displaying, manipulating and studying complex multiparameter information about chemical and biochemical compounds, including physical, chemical and biological properties. Systems and displays are provided in which compounds are visualized as points in a multiparametric display space according to their similarity and/or differences from other compounds. Methods for calculating distance metrics based on diverse properties are provided. Further provided are methods for displaying information on individually selected compounds in a universe of compounds in the display space. VR implementations are provided that enhance visualization of relations between compounds. The methods, systems and displays are useful for many purposes including drug discovery and development.



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