

Digital Twin for Ocean - Extension of Our Experiences and Experiments

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These days, we have access to an unprecedented amount and variety of data compared to the past. However, this doesn't guarantee that we possess all the data we need. We are just utilizing more data within our observational scope than before. The Digital Twin is the most effective system for efficiently and effectively utilizing observed data. We must understand and analyze observed data, explore potential scenarios, and continually estimate unobserved data to find realistic and programmatic solutions. Our society is currently facing monumental climate and demographic crises that we have never experienced in our history. In a constantly changing internal and external environment, the Digital Twin, which encompasses the entire process of timely understanding the current situation, diagnosing problems, exploring solutions, and executing them, is the digital neocortex that we must have.