

Informatics for materials science and engineering : data-driven discovery for accelerated experimentation and application / edited by Krishna Rajan

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Abstrak

Materials informatics: a "hot topic" area in materials science, aims to combine traditionally bio-led informatics with computational methodologies, supporting more efficient research by identifying strategies for time- and cost-effective analysis.

The discovery and maturation of new materials has been outpaced by the thickets of data created by new combinatorial and high throughput analytical techniques. The elaboration of this "quantitative avalanche", and the resulting complex, multi-factor analyses required to understand it, means that interest, investment, and research are revisiting informatics approaches as a solution.

This work, from Krishna Rajan, the leading expert of the informatics approach to materials, seeks to break down the barriers between data management, quality standards, data mining, exchange, and storage and analysis, as a means of accelerating scientific research in materials science.