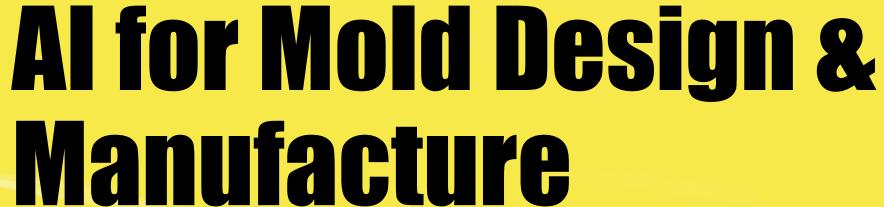
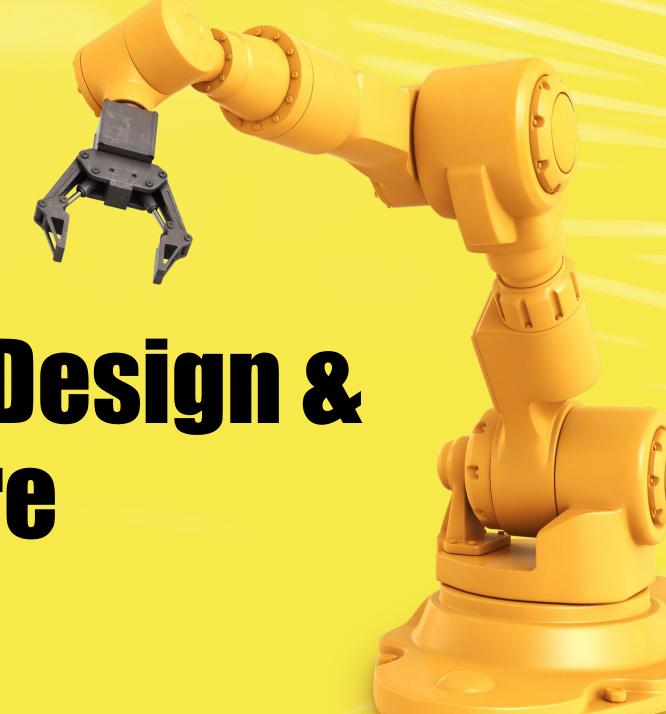
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Atomic Industries

Lou Young Jr.
Co-Founder



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CBINSIGHTS: AI 100: The most promising artificial intelligence startups of 2024







Atomic Industries Overview

Generative Al Algorithms and Optimization

 What specific generative AI algorithms are most effective for optimizing injection mold designs?

 How do these algorithms balance trade-offs between factors such as mold complexity, cycle time, and part quality?

Data Requirements and Training

What types of data are essential for training generative
 Al models to design injection molds effectively?

 How do variations in input data, such as part geometry, material properties, and manufacturing constraints, impact the performance of AI-generated designs?

Human-in-the-Loop Design

 To what extent should human expertise be incorporated into the generative AI-driven design process for injection molds?

 How can designers collaborate with AI systems to leverage domain knowledge and ensure that generated designs meet specific functional and aesthetic requirements?

Validation and Verification

 How can the accuracy and reliability of generative Algenerated mold designs be validated and verified before manufacturing?

 What methodologies and tools are available for simulating mold performance, detecting potential defects, and optimizing designs iteratively?

Ethical and Regulatory Considerations

 What ethical considerations arise from the use of generative AI in injection mold design, particularly concerning intellectual property rights, safety standards, and compliance with industry regulations?

 How can organizations ensure transparency, accountability, and responsible use of AI technologies in this context?



