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## Advances in Additive Manufacturing

Guest Editor:

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Deadline for manuscript  
submissions:

**closed (28 February 2021)**

### Message from the Guest Editor

Dear colleagues,

This Special Issue highlights the current state of the art in understanding sources and causes of process variations in additive manufacturing using a diverse set of tools. Contributions are sought that cover topics of variations in starting materials and their effects on the additive manufacturing process and part properties, including but not limited to powder pedigree and their effects on the additive manufacturing process and part properties; variations in powder delivery and in case of powder-bed additive manufacturing, powder beds and their variations with powder spreading and ramifications on powder bed melting and solidification. Also of interest are variations in energy source characteristics; variations in build chamber gas flows and gas species or other relevant variations of the additive manufacturing process. Modeling and simulation approaches are relevant as well as experimental studies, the use of sensors, and other diagnostic tools.

We invite full length papers with original research contributions, review papers, and communications with significant novel research content.

Prof. Rainer J. Hebert

*Guest Editor*



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# Special Issue



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## Message from the Editor-in-Chief

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