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Author: Ahmad Bin Anwar Quang-Cuong Pham

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Research Highlights

- Spatter distribution on AlSi10Mg powder bed was quantified in terms of mass, size and processed images
- Greatest amount of spatter was found nearest to the scanned regions and eventually decreased in -x direction
- Established vision methodology showed moderate positive relationship with quantified mass of spatter
- Spatter mass and size distributions could serve as ground truth validation data for future simulation studies
- ullet Exponential decay in the Stk number with respect to the distance travelled by the spatter particles

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