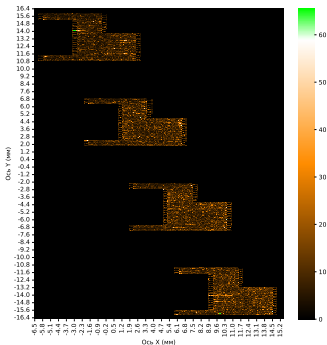


# One-slide talk

The use of additive manufacturing in industry is currently limited due to the unknown in advance and unreliable quality of parts.



**Main task:** detect anomalous situations in AM processes on-line.  
**Specifics:** given a sequence of meltpool frames, predict if laser will stumble across an obstacle at a certain point in time.

**Figure:** Coordinate distribution of the error function for the ConvLSTMAE model.

**Tags:** Additive manufacturing · Laser Powder Bed Fusion · Online monitoring · Flaw detection · Porosity prediction · Spatial-temporal Modeling