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Full Time, Full Plume: online monitoring of the cold spray process for optimal results**Abstract**

Cold spray (CS) metal deposition process has been recently expanding its application area from simple coatings to other functions, in particular additive manufacturing, repairs and remanufacturing. In these applications, maintaining deposit quality throughout the process duration is of great importance. Online particle monitoring is presented as a solution for monitoring the process quality, with examples and sample results from the extensive development work of the HiWatch CS-Q online sensor.

Biography

Dr. Jussi Larjo has position of Lead Scientist in Oseir Ltd. He has 25+ years of experience in development of particle sensors for spray processes. He is the lead designer of the HiWatch sensor product line. Graduated from Tampere University of Technology in 2000, his previous experience includes laser spectroscopy and imaging measurement technology development.