Editorial PIAM February 2022

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Issue 01/2022 for the Progress in Additive Manufacturing Journal provides a diverse range of topics, covering state-of-the-art regarding Material Extrusion processes, such as numerical analysis of melt flow dynamics and use of the Taguchi method for process parameter determination. There are also topics covered in terms of post-processing of metal supports, post-processing treatments for polyvinylidene fluoride (PVDF) structures, and chemical vapor treatment of poly-lactic acid (PLA) parts. In terms of powder-based processes, we published several papers that report their findings regarding the processability and mechanical behavior of Al–Mg–Sc alloys for laser-based Powder Bed Fusion, examining the high- and low-cycle-fatigue properties parts that are manufactured from Selective Laser Melting, understanding the phenomena surrounding powder spreading, densification, and part deformation within the Binder Jetting process, as well as fluence-based parameter scaling of Directed Energy Deposition processes. Lastly, to round this off, we also publish a paper that proposes a STEP-compliant CNC system.

I hope that these papers will be meaningful to your ongoing research, and to inspire new and original contributions to the field of Additive Manufacturing.

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