Additive Manufacturing of Metallic Glasses

High-performance parts such as those used in the aerospace industry and spacecraft components require advanced manufacturing of novel materials to push the state-of-the-art. Metallic glasses (MGs), which possess superlative mechanical properties and are processed using rapid solidification, have recently garnered interest for use in additive manufacturing (AM). In this talk, metal AM technologies explored at the NASA Jet Propulsion Laboratory (JPL) will be discussed with emphasis on MGs as the material of choice.

**Biography:** Punnathat Bordeenithikasem is currently a NASA Postdoctoral Program (NPP) fellow working in the Materials Development and Manufacturing Technology group at the NASA Jet Propulsion Laboratory (JPL). He received his Ph.D. in Mechanical Engineering and Materials Science from Yale University in 2017 under the supervision of Prof. Jan Schroers. For his Ph.D., he worked on metallic glass alloy development, processing, and product applications. At JPL, he is utilizing his expertise in metallic glasses towards enhancing spacecraft components by non-traditional metal processing technologies such as additive manufacturing and thermoplastic forming of metallic glasses.

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