IBWS

INVITED LECTURE

CubeSat Breakthroughs in Education and Science Applications

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CubeSats offer excellent opportunities to train students in system engineering skills. It supports combination of theoretical background with practical hands-on activities. The introduction of CubeSats standards is basis for hardware realization at different complexity levels. This contribution sketches at the example of the space-ecosystem in Würzburg the pathway from space technology education to innovative research satellites.

The achieved technology progress and the intensive research exchanges enabled worldwide CubeSat university cooperation, opening perspectives for interesting scientific and commercial CubeSat applications. Here especially distributed, networked multi-satellite systems offer a broad spectrum of innovative applications in space weather, Earth observation and telecommunications.