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The Space Radiation Intelligence System (SPRINTS) is an ecosystem for streamlined data fusion, access, analysis, and machine learning. SPRINTS enables new forecasting techniques and collaborative R2O-O2R efforts and provides the ability to explore, visualize and analyze large solar imagery and heliophysics datasets thereby increasing the utility of current and space weather data holdings. It has a modern cloud-native deployment model, that easily fits into existing heliophysics data repository IT infrastructures. SPRINTS enabling technologies have been initially focused on data-driven forecasting of solar energetic particles using machine learning. It can, however, be used for a variety of heliophysics and space weather applications such as supporting efficient data analysis and retrieval processes. This talk will highlight SPRINTS architecture, current forecasting applications, and demonstrate its extensible and customizable system components.

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