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Abstract:

The Tropospheric Emission Spectrometer (TES), scheduled to launch in December 2002, is part of NASA's Earth Observation System (EOS). The science data processing software for TES is required to function on more than one environment, archive data in more than one format, and be capable of adapting to constant revisions of the processing algorithms. An object-oriented applications framework is being developed for this project, based on COTS and GOTS tools, as well as newly developed code. We present our use of UML, design patterns, and Rational Rose in all phases of the development of this framework, from analysis to implementation.