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ESL design approach of Hw/Sw wireless devices based on a Virtual Platform/Network co-simulation environment

Abstract: In this work we focus on a simulation-based approach for the validation of both the architecture of a communicating object and its embedded software, interacting with other objects within a networked distributed system. This approach is based on co-simulation connecting the SystemC-TLM-based virtual prototyping tool Virtualizer from Synopsys and the network simulator OMNET++.

Example of advanced sensor network/IoT system