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Search, browsing, and classification each depend critically on extracting and mining human context. Context awareness is the discipline that brings together technologies for extracting data about the larger human context and reasoning with that data at scale. It seeks to make the benefits of contextualization as pervasive in our lives as technology itself.

Modernizing today’s critical infrastructures and control systems yields better operation efficiency, saves energy, and improves reliability. However, foundational security requirements must be addressed to guarantee that this modernization fulfills its potential and isn’t subject to a variety of attacks. This special issue explores new security mechanisms for guaranteeing operational safety and security in complex cyber-physical systems.

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