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(57) Abstract :

An adaptive cybersecurity framework is disclosed comprising a telemetry acquisition module (101), a normalization engine (102), a behavioral profiling engine (103), a contextual correlation engine (104), a risk synthesis module (105), and a policy mediation controller (106) cooperating with a response orchestration layer (107). Security-relevant records from heterogeneous sources are transformed into standardized behavioral descriptors, compared with entity-specific reference states, and correlated into composite deviation sequences. A dynamic threat index is generated using contextual and sensitivity factors, whereupon proportionate defensive measures are selected and executed with feedback-assisted refinement.

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