

Agent-based Systems for Norm Compliance in Food Supply Chains

Adrian Groza and Ioan Alfred Leția

Abstract. This research proposes a semantic framework for norm compliance in food supply chains. The problem is approached on two levels: i) a conceptual one, in which description logic is used to reason on hazards and ii) a technical level, in which the TraceCore XML standard is exploited to support the hazards-related information flow in the supply chain. We follow the Hazard Analysis at Critical Control Points (HACCP) methodology to assure quality in food supply chains. Agent roles for norm compliance when designing agent-based supply chain architectures are also analysed.

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Adrian Groza

Department of Computer Science
Technical University of Cluj-Napoca
Memorandumului no. 28
Cluj-Napoca
Romania

E-mail: Adrian.Groza@cs.utcluj.ro

Ioan Alfred Leția

Department of Computer Science
Technical University of Cluj-Napoca
Memorandumului no. 28
Cluj-Napoca
Romania
E-mail: letia@cs.utcluj.ro

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