LUCIANA GARBAYO, Dependence logic & medical guidelines disagreement: an informational (in)dependence analysis.

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Medical guidelines disagreement is a more general problem in medical decision science whereas medical experts hold true distinct guidelines for diagnostic and/or treatment for same patient profiles. Such state of affairs is associated with disagreement in the interpretation of the body of science that supports guidelines for diagnostic and/or treatment decisions by different accredited medical societies. In order to better support medical decision making and augment clinical decision support, a formal semantics of such disagreement has been first suggested with a path to reason with partially contradictory information using natural language processing techniques, while distinguishing formally disagreement from contradictions with propositional calculus and lattice theory (1). This account has been further developed with sheaves, to provide a computational topological treatment for the representation of multiple sources of information and data transformation with mappings (2). In order to enrich this logical notion of disagreement with informational (in)dependence (43), plural states S are considered for multiple forms of interactions between agents, dependent and independent variables and guidelines statements, while a team semantics is explored, within a dependence logic platform.

