

Logic as a Theory of Intelligent Interaction

Johan van Benthem, Amsterdam University & Stanford University

We will present a new conception of logic as the study of information-driven rational agency between many actors, of which reasoning is just one component. We show how the events that drive rational agency (inference, perception, belief revision, communication, questioning, and even acts of evaluation) can be represented uniformly in systems of dynamic-epistemic logic that satisfy classical mathematical standards of elegance and precision.

Lit.:

J. van Benthem, *Logical Dynamics of Information and Interaction*, Cambridge University Press, Cambridge, 2010.