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*Programming in Hilbert's Complete Perfect Logic.* Preliminary report.

(Introduced by AMS member R. Daniel Mauldin, Department of Mathematics, University of North Texas) Hilbert's complete perfect (HCP) logic is a type of three valued logic closely related to Hilbert's second problems. In this paper the author investigates the following programming methodology: (1) the design of fuzzy systems in HCP logic, (2) classical problem solving and programming in HCP logic that include object programming and structured programming (3) quantum computing and quantum programming in HCP logic. (Received March 08, 2006)