

SPECIFICATION USING AN ALGEBRAIC APPROACH

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Abstract:

Kinds of specification; explicit and implicit. Why specifications can be clearer than code. Data types and induction; the algebraic approach. Modularity; libraries and specifications, and the need for parameterisation. Independence from the underlying logical language. Implementations; they too should be modular. Some language design efforts attempting to meet these goals.

References:

R.M. Burstall, J.A. Goguen, "Putting Theories Together to make Specifications", Proc. of 5th International Joint Conf. on Artificial Intelligence, 1977.

R.M. Burstall, J.A. Goguen, "An Informal Introduction to Specifications using Clear"; in: The Correctness Problem in Computer Science (eds. R.S. Boyer, J. Moore), Academic Press, 1981.

