The Role of Credibility Assessment
In Verification, Validation and Accreditation

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ABSTRACT: NASA’s Modeling and Simulation Standard requires a credibility assessment for critical engineering data produced by models and simulations. Credibility assessment is thus a “qualifying factor” in reporting results from simulation-based analysis. The Constellation Program’s Verification, Validation and Accreditation process for models and simulations accordingly contains a credibility assessment as one of the factors supporting an accreditation decision for a specific use. This paper will explore the dimensions and criteria of credibility assessment and its relationship to the more traditional Accreditation Criteria. The role of credibility assessment in a typical end-to-end integrated analysis process will be described.