

Modeling and Simulation Body of Knowledge (M&SBOK) - Index

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M&SBOK: Early and Contemporary Studies

Due to its importance and timeliness, several studies on M&SBOK preparation have been under way. Some of them are:

An early study was developed by the Technical Committee on Simulation of the IEEE Computer Society (CS-TCSim-BOK). However, this study did not have an impact on the discipline.

One of the on-going efforts is the establishment of a clearinghouse as well as contribution to the M&SBOK studies by an avid supporter of the M&SBOK studies, i.e., B. Waite (Aegis Docushare). Many Workshops are organized (e.g., Waite and Skinner 2003, Waite 2004).

Fairchild (2002) presented his version of M&SBOK by partitioning it in four areas:

- (1) Simuland: What is simulated,
- (2) Purpose: Why it is simulated,
- (3) Technique: How it is simulated (solution method, execution control, interfacing –inputs and outputs–, classical mathematics, and soft computing),
- (4) Programmatic: How it is controlled (technology and management).

Birta published an M&SBOK (Birta, Birta 2003) which caused Elzas to publish a critique (Elzas).

Studies elaborating on an “ideal simulationist” such as reports (Madewell and Swain 2003, Rogers 1997) and their critiques also contain valuable information.

A section at the references –titled M&SBOK – Early Studies & Other Contributions– is dedicated for this purpose.