



A Missing Link in Cybernetics: Logic and Continuity (IFSR International Series on Systems Science and Engineering)

Alex M. Andrew

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In this book I argue that a reason for the limited success of various studies under the general heading of cybernetics is failure to appreciate the importance of continuity, in a simple metrical sense of the term. It is with particular, but certainly not exclusive, reference to the Artificial Intelligence (AI) effort that the shortcomings of established approaches are most easily seen. One reason for the relative failure of attempts to analyse and model intelligence is the customary assumption that the processing of continuous variables and the manipulation of discrete concepts should be considered separately, frequently with the assumption that continuous processing plays no part in thought. There is much evidence to the contrary including the observation that the remarkable ability of people and animals to learn from experience finds similar expression in tasks of both discrete and continuous nature and in tasks that require intimate mixing of the two. Such tasks include everyday voluntary movement while preserving balance and posture, with competitive games and athletics offering extreme examples. Continuous measures enter into many tasks that are usually presented as discrete. In tasks of pattern recognition, for example, there is often a continuous measure of the similarity of an imposed pattern to each of a set of paradigms, of which the most similar is selected. The importance of continuity is also indicated by the fact that adjectives and adverbs in everyday verbal communication have comparative and superlative forms.

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