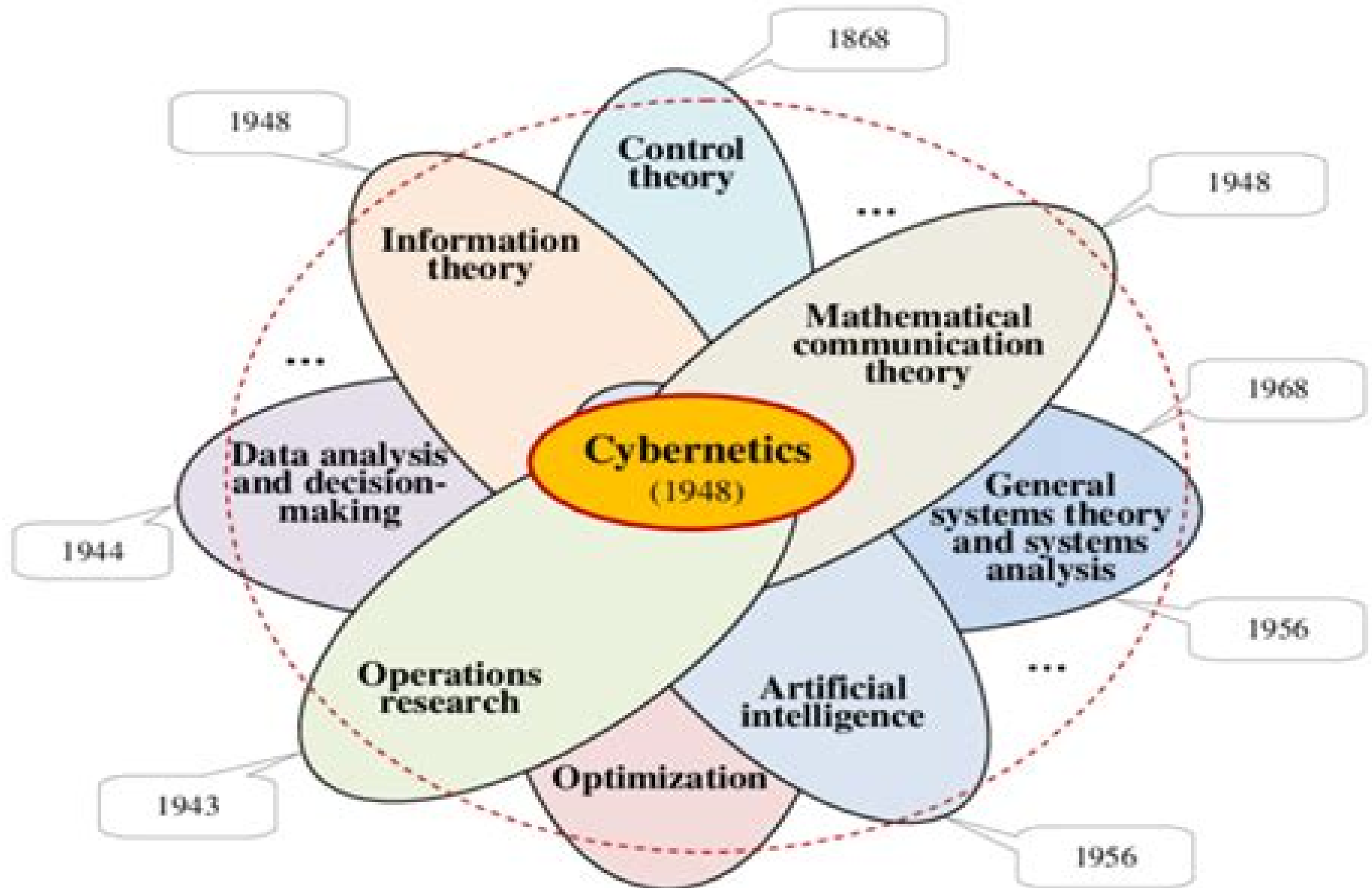


CYBERNETICS



The composition and structure of cybernetics

The Measurement Of Verval Information In Psychology And Education Communications And Cybernetics Series

T. Kohonen



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The Measurement of Verbal Information in Psychology and Education Klaus Weltner, 2013-06-29 Information theory and cybernetics have developed along somewhat different lines in Europe and in the U S A This book is to be seen as a contribution towards bridging the gap Anyone who seeks to apply information theory in the fields of education and psychology very soon comes up against a central difficulty in the form in which it was developed by Shannon information theory excludes the semantic aspect This problem is fundamental for in education as in psychology the semantic aspect is the very heart of the matter Thus while Attneave Miller and Quastler among others successfully employed the concepts and units of measurement of information theory in the interpretation of the findings of experimental psychology they were obliged to restrict their work to its syntactic and statistical aspects Before we can make use of the methods and results of information we have to solve the central problem How can theory in actual teaching we measure the semantic information of a verbal message The only way to do this is by extending the theory A special concept has been developed for this purpose subjective information In place of an objectively measurable quantity frequency of sign sequences we set an empirically determined one the subjective probability with which the recipient expects a certain sign sequence *The Encyclopaedia of Educational*

Media Communications & Technology NA NA, 2015-12-25 **The Encyclopaedia of Educational Media**

Communications and Technology Derick Unwin, Ray McAleese, 1978 *International Yearbook of Educational and Instructional Technology* Association for Programmed Learning and Educational Technology, 1976 **Books in Series**, 1985 Vols for 1980 issued in three parts Series Authors and Titles *Medical and Health Care Books and Serials in Print*, 1986

Associative Memory T. Kohonen, 2012-12-06 About the Scope of This Text This book contains two types of material first the many divergent and often diffuse meanings given to the concepts of association associative memory and associative recall are expounded A review of this kind was felt necessary because there apparently does not exist any single monograph which could serve as a reference to these topics But the presentation of the main body of this text is motivated by quite other reasons in recent years plenty of interesting mathematical and system theoretical material has been published which makes it possible to gain a view of associative memory which is different from the conventional abstract and computationally oriented approaches It seems that the basic operation of associative memory the storage of information together with the relations or links between the data items and the selective recall of stored information relative to a piece of key or cue information presented is not restricted to certain computer technological implementations but can also be reflected in more general mathematically describable processes in certain physical or other systems especially in their adaptive state changes It further seems that some generally known forms of associative memory namely certain computer technological artifacts or abstract systems of concepts or data are in fact special representations of a class of processes characterized as associative memory **Syntactic Pattern Recognition, Applications** K.S. Fu, 2012-12-06 The many different mathematical

techniques used to solve pattern recognition problems may be grouped into two general approaches the decision theoretic or discriminant approach and the syntactic or structural approach In the decision theoretic approach a set of characteristic measurements called features are extracted from the patterns Each pattern is represented by a feature vector and the recognition of each pattern is usually made by partitioning the feature space Applications of decision theoretic approach include character recognition medical diagnosis remote sensing reliability and socio economics A relatively new approach is the syntactic approach In the syntactic approach each pattern is expressed in terms of a composition of its components The recognition of a pattern is usually made by analyzing the pattern structure according to a given set of rules Earlier applications of the syntactic approach include chromosome classification English character recognition and identification of bubble and spark chamber events The purpose of this monograph is to provide a summary of the major recent applications of syntactic pattern recognition After a brief introduction of syntactic pattern recognition in Chapter 1 the nine main chapters Chapters 2-10 can be divided into three parts The first three chapters concern with the analysis of waveforms using syntactic methods Specific application examples include peak detection and interpretation of electro cardiograms and the recognition of speech patterns The next five chapters deal with the syntactic recognition of two dimensional pictorial patterns *To Mean, to Understand* Hans Hörmann, 1981 *Signalübertragung* H.D. Lüke, 2013-03-09

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