Record Nr. UNINA9910459251103321 Formal approaches in categorization / / Emmanuel M. Pothos, Andy J. **Titolo** Wills, Editors [[electronic resource]] Pubbl/distr/stampa Cambridge:,: Cambridge University Press,, 2011 **ISBN** 0-511-86164-8 1-107-21366-5 1-283-00622-7 9786613006226 0-511-92132-2 0-511-85997-X 0-511-86084-6 0-511-85823-X 0-511-85736-5 0-511-85910-4 Descrizione fisica 1 online resource (xii, 336 pages) : digital, PDF file(s) Disciplina 153.2 Categorization (Psychology) Soggetti Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Title from publisher's bibliographic system (viewed on 05 Oct 2015). Note generali Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Machine generated contents note: 1. Introduction Emmanuel M. Pothos and Andy J. Wills; 2. The generalized context model: an exemplar model of classification Robert M. Nosofsky; 3. Prototype models of categorization: basic formulation, predictions, and limitations John Paul Minda and J. David Smith; 4. COVIS F. Gregory Ashby, Erick J. Paul and W. Todd Maddox; 5. Semantics without categorization Timothy T. Rogers and James L. McClelland; 6. Models of attentional learning John K. Kruschke; 7. An elemental model of associative learning and memory Evan Livesey and Ian McLaren; 8. Nonparametric Bayesian models of categorization Thomas L. Griffiths, Adam N. Sanborn, Kevin R. Canini, Daniel J. Navarro and Joshua B. Tenenbaum; 9. The simplicity model of unsupervised categorization Emmanuel M. Pothos, Nick Chater and

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Sommario/riassunto

The process of constructing concepts underpins our capacity to encode information in an efficient and competent manner and also, ultimately, our ability to think in terms of abstract ideas such as justice, love and happiness. But what are the mechanisms which correspond to psychological categorization processes? This book unites many prominent approaches in modelling categorization. Each chapter focuses on a particular formal approach to categorization, presented by the proponent(s) or advocate(s) of that approach, and the authors consider the relation of this approach to other models and the ultimate objectives in their research programmes. The volume evaluates progress that has been made in the field and where it goes from here. This is an essential companion to any scientist interested in the formal description of categorization and, more generally, in formal approaches to cognition. It will be the definitive guide to formal approaches in categorization research for years to come.