

Contents

Preface	v
Contributors	ix
Part I General Outlook and Possibilities	
Literature-Based Discovery? The Very Idea	3
D.R. Swanson	
The Place of Literature-Based Discovery in Contemporary Scientific Practice	13
Neil R. Smalheiser and Vetle I. Torvik	
The Tip of the Iceberg: The Quest for Innovation at the Base of the Pyramid	23
M.D. Gordon and N.F. Awad	
The ‘Open Discovery’ Challenge	39
Jonathan D. Wren	
Where is the Discovery in Literature-Based Discovery?	57
R.N. Kostoff	
Part II Methodology and Applications	
Analyzing LBD Methods using a General Framework	75
A.K. Sehgal, X.Y. Qiu, and P. Srinivasan	
Evaluation of Literature-Based Discovery Systems	101
M. Yetisgen-Yildiz and W. Pratt	

Factor Analytic Approach to Transitive Text Mining using Medline Descriptors	115
J. Stegmann and G. Grohmann	
Literature-Based Knowledge Discovery using Natural Language Processing	133
D. Hristovski, C. Friedman, T.C. Rindflesch, and B. Peterlin	
Information Retrieval in Literature-Based Discovery	153
W. Hersh	
Biomedical Application of Knowledge Discovery	173
A. Koike	
Index	193

Literature-based Discovery
Bruza, P.; Weeber, M. (Eds.)
2008, XII, 198 p. 25 illus.,
ISBN: 978-3-540-68690-3