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**Xiaonan Zhu\***, Stevens Hall, Room 309D, UNA Box 5051, Florence, AL 35632. *Recent Developments on Asymmetric Association Measures for Contingency Tables.*

Contingency tables are heavily used in survey research, business intelligence, engineering and scientific research, because they provide a basic picture of the interrelation of variables and describe their interactions. A crucial problem of multivariate statistics is finding the directional dependence structure underlying the variables contained in high-dimensional contingency tables. In this talk, some measures of complete dependence on two-way or three-way contingency tables and their properties are reviewed. Their nonparametric estimators are provided. Simulations two real data sets are used to illustrate the measures. (Received January 10, 2022)