Clustering of Sun Exposure Measurements

In a medically motivated Sun-exposure study, questionnaires concerning Sun-habits were collected from a number of subjects together with UV radiation measurements. This paper focuses on identifying clusters in the heterogeneous set of data for the purpose of understanding possible relations between Sun-habits exposure and eventually assessing the risk of skin cancer. A general probabilistic framework originally developed for text and Web mining is demonstrated to be useful for clustering of behavioral data. The framework combines principal component subspace projection with probabilistic clustering based on the generalizable Gaussian mixture model.

General information
State: Published
Organisations: Department of Informatics and Mathematical Modeling, Cognitive Systems
Authors: Have, A. S. (Intern), Larsen, J. (Intern), Hansen, L. K. (Intern), Philipsen, P. A. (Intern), Thieden, E. (Ekstern), Wulf, H. C. (Ekstern)
Pages: 727-735
Publication date: 2002

Host publication information
Title of host publication: Proceedings of IEEE Workshop on Neural Networks for Signal Processing XII, Matigny, Valais, Switzerland, Sept. 4-6
Publisher: IEEE Press
ISBN (Print): 0-7803-7616-1
Main Research Area: Technical/natural sciences
Conference: 2002 IEEE Workshop on Neural Networks for Signal Processing XII, Matigny, Switzerland, 04/09/2002
Electronic versions:
imm1193.pdf
DOIs: 10.1109/NNSP.2002.1030090

Bibliographical note
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Source: orbit
Source-ID: 58177
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002