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Patterns of clinical information systems sophistication: An empirical taxonomy of European hospitals

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Several empirical evidences revealed that a growing number of healthcare organizations are adopting Clinical Information Systems (CIS) to improve their performance. But the outcomes associated with the use of CIS depend, among other things, on the level of their sophistication. Drawing on data from 1000 European hospitals, we conducted an exploratory study to empirically derived patterns of CIS sophistication, combining hierarchical and non-hierarchical cluster analysis algorithms. Our study reveals four different clusters or patterns. We also investigate the extent to which contextual factors such as hospital size influence the level of CIS sophistication.

Biography

Placide Poba-Nzaou is an Assistant Professor of Information Systems and Human Resource. His research interests include the adoption and implementation of IT in organizations, the impact of IT in healthcare organizations and open source software. The results of his research has been published in internationals refereed journals such as *Journal of Information Technology*, *Information & Management*, *Information Systems Frontiers*, *Information, Systems Management*, *International Journal of Operations & Production Management*, *International Journal of Health Informatics*; as well as international conferences such as HICSS, AMCIS, ECIS. He has an extensive experience as a consultant in the fields of IT and Organizational Development.

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