

Knowledge Engineering and Machine Learning group(KEMLg)

Miquel Sànchez-Marrè

miquel@lsi.upc.edu

Universitat Politècnica de Catalunya

- **Application field:** neurorehabilitation in traumatic brain injury
- **Collaborator Institution:** Institut Guttmann, hospital de neurorehabilitació
- **Main targeted goal:** find profiles of response to the treatment
- **Methodological subfield:** clustering
- **Methodological contribution:** Clustering based on rules, includes prior knowledge into process; guarantee interpretability of clusters. Traffic lights panel: visual interpretation support tool
- **Links:**<http://dl.acm.org/citation.cfm?id=1566924>,
<http://www.scopemed.org/mnstemps/6/6-1300614927.pdf>
- **Impact in domain field:** types of responses were identified. Differential characteristics among groups found. A group of partial response, who did not restore executive functions was identified. The hospital designed a specific neurorehabilitation treatment oriented to executive functions for this persons.
- **Contact person for this particular application:** Karina Gibert (karina.gibert@upc.edu)