

## DISCOVERING A TASTE FOR THE UNUSUAL: EXCEPTIONAL MODELS FOR PREFERENCE MINING

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### ABSTRACT

Exceptional preferences mining (EPM) is a crossover between two subfields of data mining: local pattern mining and preference learning. EPM can be seen as a local pattern mining task that finds subsets of observations where some preference relations between labels significantly deviate from the norm. It is a variant of subgroup discovery, with rankings of labels as the target concept. I will present algorithms for EPM and results on a few datasets, including sushi and movie preferences as well as elections.

### SPEAKER

Carlos Soares is an Associate Professor at the Faculty of Engineering of U. Porto, where he holds the positions of Subdirector of the Dep. of Informatics Engineering, Director of the Ph.D. programme on Informatics Engineering and Adjunct Director of the M.Sc. programme on Data Science and Engineering. Carlos also teaches at the Porto Business School, where he is the co-Director of the executive programme on Business Intelligence & Analytics. Recently, Carlos joined Fraunhofer Portugal AICOS as Innovation Lead and he is a researcher at LIACC and a collaborator at LIAAD-INESC TEC. The focus of his research is on metalearning/autoML but he has a general interest in Data Science. He has participated in 20+ national and international R&ID as well as consulting projects. Carlos regularly collaborates with companies, including Feedzai, Accenture and InovRetail. HE has published/edited several books and 150+ papers in journals and conferences, (90+/125+ indexed by ISI/Scopus) and supervised 10+/50+ Ph.D./M.Sc. thesis. Recent participation in the organization of events, includes ECML PKDD 2015 and IDA 2016, as programme co-chairs and he will be programme co-chair of Discovery Science 2021. In 2009, he was awarded the Scientific Merit and Excellence Award of the Portuguese AI Association.

