## Some compact-type and Lindelöf-type relative versions of star-covering properties

Fortunato Maesano<sup>\*1</sup>, Maddalena Bonanzinga

fomaesano@unime.it, mbonanzinga@unime.it

Given a topological space X, a subset A and an open cover  $\mathcal{U}$  of it, the star of A with respect to  $\mathcal{U}$  is defined by the set  $st(A,\mathcal{U}) = \bigcup \{U \in \mathcal{U} : U \cap A \neq \emptyset\}$ . In last decades, many ways to cover a set with stars were discovered and studied. Recently, new classes of star covering properties, defined as relative versions of known ones, were introduced by Kočinac, Konca and Singh (see [1] and [2]). We study some of these compact-type and Lindelöf-type properties.

- L. KOČINAC, S. KONCA, AND S. SINGH, Set star-menger and set strongly star-menger spaces, Math. Slovaka, 72 (2022), pp. 185–196.
- [2] L. KOČINAC AND S. SINGH, On the set version of selectively star-CCC spaces, J. Math., (2020), pp. Article ID 9274503, 7 pages.

 $<sup>^1\</sup>mathrm{The}$  presenting author gracefully a knowledges the financial support of University of Palermo.

