Johnson, Jennifer M.; Kollár, János
Arc spaces of $cA$-type singularities. (English) [Zbl 1293.32037]

Summary: We study the space of arcs on a singularity of the form $xy = f(z_1, ..., z_n)$ and prove 2 main results. (i) The number of irreducible components equals the multiplicity of $f$ minus 1. (ii) If $n > 1$ and the leading homogeneous term of $f$ is not a perfect square then the Nash map from the set of irreducible components to the set of essential divisors is not surjective.

MSC:

32S70 Other operations on complex singularities
14B05 Singularities in algebraic geometry

Keywords:
space of arcs; Nash map

Full Text: DOI arXiv