

Title. Homomorphism problems in the infinite context

Abstract. The CSP dichotomy of Bulatov and Zhuk is a celebrated theorem of computer science: it states that given a finite structure  $H$ , deciding whether a structure  $G$  admits a homomorphism to  $G$  is either easy (in  $P$ ) or hard (NP-complete). We will discuss infinitary versions of this problem, in the Borel and choice free contexts, with an emphasis on the former one.