A Formal Treatment of Bidirectional Typing

Liang-Ting Chen and Hsiang-Shang 'Josh' Ko Institute of Information Science, Academia Sinica, Taiwan



 $\Gamma \vdash t:?$

'This report proves that type checking in F is undecidable ... and that typability [type inference] in F is undecidable'

Typability and type checking in System F are equivalent and undecidable (Wells, 1999)