Selected Relations Between Obfuscation Notions



Implication: ____ Separation: ____

Obfuscation Security Notions

iO – indistinguishability obfuscation
diO – differing-inputs obfuscation
VGB – Virtual-Grey Box obfuscation
AIPO – auxiliary input point-function obfuscation
MB-AIPO – multi-bit (output) AIPO
spO – special-purpose obfuscation
IND – indistinguishability of point-function obf.:
X^{cup} – computationally unpred. target points
X¹ – a single target point

Other Security Notions

AI-DHI – auxiliary input DH inversion UCE – Universal Computational Extractors, standard-model assumption for random-oracle instantiation (mUCE is in multi-key setting): S^{cup} – computationally unpred. sources

S^{splt} – split sources, leak on inp./out. separately

S^{n,1} – source uses n keys, one query per key **PRIV1** – single-key security of deterministic PKE for multiple users (with auxiliary information) **OWF** – multi-key sec. of inj. OWF with aux. inf. **KM-LR-SE** – key-message leakage-resilient symmetric encryption