
LIST OF FIGURES

2.1	Zero Knowledge Concept using Schnorr Scheme.....	6
2.2	Keccak Hash Function [5]	7
2.3	State on Keccak [5].....	8
2.4	Illustration of theta process applied into single bit [5].....	9
2.5	Illustration of rho process [5]	9
2.6	Illustration of pi process applied into single slice [5].....	10
2.7	Illustration of chi process applied into single row [5].....	10
2.8	Impersonation attack scheme.....	11
2.9	Man-in-the-middle attack ideology schematic [18]	12
2.10	Li-Takagi's scheme	15
2.11	Undeniability on Li-Takagi's scheme.....	16
2.12	MITM attack on Li-Takagi's scheme.....	17
2.13	Impersonation attack on Li-Takagi's scheme	18
3.1	Proposed Scheme.....	22
4.1	Time complexity on Li-Takagi's scheme	32
4.2	Time complexity on the proposed scheme	33
4.3	An Impersonation attack on the proposed scheme	34
4.4	An MITM attack on the proposed scheme	35