| Protocol | Type | Design goal |
|---|---|---|
| Das (2016) | Remote authentication | - Providing a user authentication to resolve the security weaknesses of the scheme . |
| Chang et al. (2016) | Remote authentication | - Providing mutual authentication and perfect forward secrecy. |
| Jiang et al. (2016) | Remote authentication | - Providing mutual authentication, anonymity, and untraceability. |
| Farash et al. (2016) | Remote authentication | - Providing the user authentication with traceability protection and sensor node anonymity. |
| Srinivas et al. (2017) | Remote authentication | - Providing the mutual authentication with anonymity and unlinkability. |