Abstract

Now a days wireless networks and smart devices are getting popularity day by day. With the growing availability of the internet, these facilities have made our life much easier by providing a lot of automated services. Hence to make the user experience much convenient, service providers allow accessing these services through a variety of devices in many ways. Although these technological inventions are blessings to us, client authentication is of the critical issues as intruders may acquire unauthorized access and use their advanced knowledge to impersonate the actual user and steal valuable information. Single factor authentication, e.g. password, being the first authentication approach is no longer considered as secure whereas two factor authentication provides a bit higher protection level by extending a factor. Apart from these, a new concept called multi factor authentication is the most secured approach that requires a combination of two or more different factors. In this paper, a multi factor authentication method is proposed that includes knowledge, possession, location and inherence which can add a new dimension in the security area of user authentication in a hassle free
manner.

References

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**Index Terms**

- Computer Science
- Pattern Recognition

**Keywords**

- Multi-factor authentication
- Biometric
- Trusted Device
- Trusted Location
- GPS