World Academy of Science, Engineering and Technology
International Journal of Computer and Information Engineering
Vol:8, No:03, 2014

A User Identification Technique to Access Big Data Using Cloud Services

Authors : A. R. Manu, V. K. Agrawal, K. N. Balasubramanya Murthy

Abstract : Authentication is required in stored database systems so that only authorized users can access the data and related cloud infrastructures. This paper proposes an authentication technique using multi-factor and multi-dimensional authentication system with multi-level security. The proposed technique is likely to be more robust as the probability of breaking the password is extremely low. This framework uses a multi-modal biometric approach and SMS to enforce additional security measures with the conventional Login/password system. The robustness of the technique is demonstrated mathematically using a statistical analysis. This work presents the authentication system along with the user authentication architecture diagram, activity diagrams, data flow diagrams, sequence diagrams, and algorithms.