

SNS

{sch1992, skadkdla, terrrt90, enh1535, jdlee731, jhpark1}@seoultech.ac.kr

A Study on Implementation Methods of the Right to be Forgotten in SNS Environments

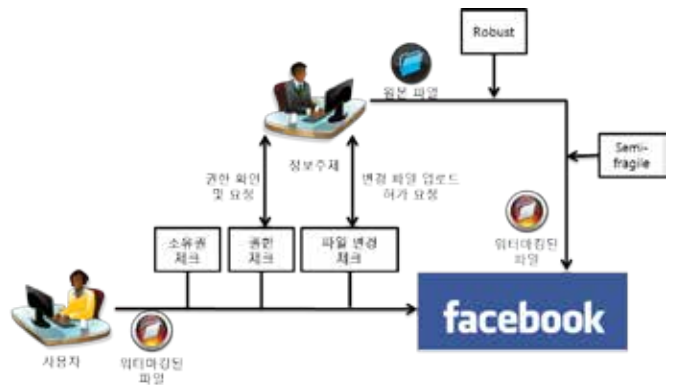
Cheol Ho Sin, Nam A Kim, Byeong Woo Go, Kim Seong Min, Jae Dong Lee, Jong Hyuk Park
Department of Computer Science and Engineering,
Seoul Nation University of Science and Technology, Korea

SNS, 2 SNS SNS UPP, Dual Watermarking Scheme, FaceCloak

1. SNS Social Network Sites(SNS) : SNS가 가 SNS 가 SNS 가 SNS [1, 2]. 2012 1 25 가 EU 가 , IP , 가 정정·삭 가 SNS 3 가 [3, 4]. Social Network Sites(SNS) Facebook, MySpace 가 , [5]. SNS 가 widget XSS SNS [1]. SNS

2. 2.1 Social Network Sites (SNS) [2] SNS 2.2 SNS

- 정·삭제가 가
- 3 : 3 이용을 가
- : 보관되어야
- XSS, SQL



2 Dual watermarking scheme Architecture

3. SNS

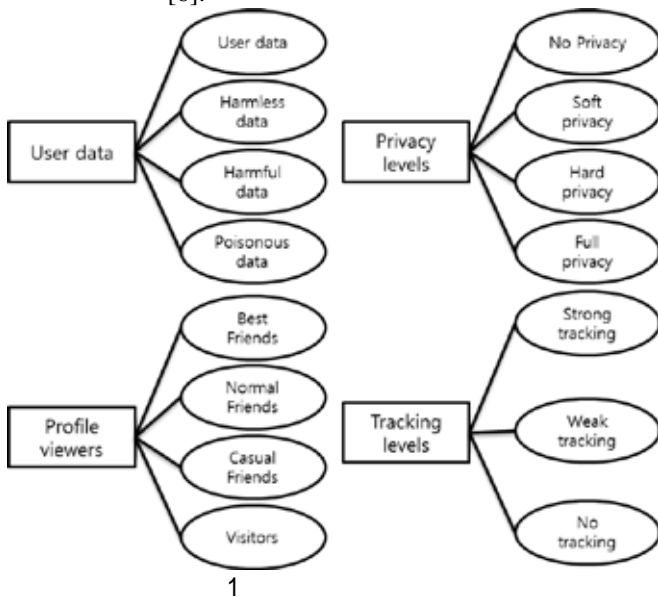
User Privacy Policy(UPP), Dual watermarking scheme, FaceCloak SNS

• User Privacy Policy(UPP)

UPP Privacy 가

OWNER, RECEIVER, ACCESS-RIGHT POLICY가

RECEIVER ACCESS-RIGHT [6].



1

• Dual watermarking scheme

Dual watermarking scheme

Management(DRM) 2

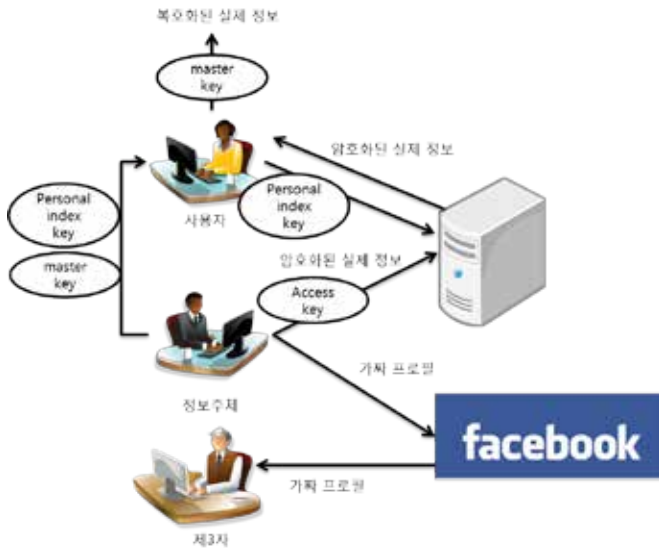
Digital Right

가 Robust Semi-fragile Robust Semi-fragile

FaceCloak SNS 3 Facebook FaceCloak 3 facebook

가 FaceCloak master key personal index key, access key 3 facebook personal index key 3 Master key personal index key 3 facebook 가

[1].



3 FaceCloak Architecture

[4] Peter Druschel, Michael Backes, Rodica Tirtea, "The right to be forgotten - between expectations and practice", ENISA, 2011, p 3.

[5] Danah m. boyd, Nicole B. Ellison, "Social Network Sites: Definition, History, and Scholarship", Journal of Computer-Mediated Communication 13 (2008) 210-230, 2008 International Communication Association, 2008, p 211.

[6] Esma Aimeur1, Sébastien Gambs, Ai Ho, "UPP: User Privacy Policy for Social Networking Sites", 2009 Fourth International Conference on Internet and Web Applications and Services, IEEE Computer Society, 2009, pp 269-271.

[7] Athanasios Zigomitros, Achilleas Papageorgiou, Constantinos Patsakis, "Social network content management through watermarking", 2012 IEEE 11th International Conference on Trust, Security and Privacy in Computing and Communications, IEEE computer society, 2012, pp 1383-1385.

4.

SNS

. SNS

3

2

가

3

. UPP

Watermarking scheme, FaceCloak

SNS

DRM,

가

SNS

2013

()

[1] Wanying Luo, Qi Xie, Urs Hengartner, "FaceCloak: An Architecture for User Privacy on Social Networking Sites", 2009 International Conference on Computational Science and Engineering, IEEE Computer Society, 2009, p 26, pp 29-30.

[2] Giles Hogben, ENISA, "ENISA Position Paper No.1 Security Issues and Recommendations for Online Social Networks", 2007, pp 8-16.

[3] Pere Simón Castellano, "The right to be forgotten under European Law a Constitutional debate", Lex Electronica, vol. 16.1 (Hiver/Winter 2012), Lex Electronica, 2012, p 18.