

External Awards

ICIN2012 Best Paper Award

Winners: Haruno Kataoka, Daichi Namikawa, Hiroya Minami, Michio Shimomura, and Naoki Uchida, NTT Service Evolution Laboratories

Date: October 11, 2012

Organization: ICIN (16th International Conference on Intelligence in Next Generation Networks)

For “SightFinder: Enhanced Videophone Service Utilizing Media Processing”.

The purpose of this study is to construct a framework for enhancing the network services of telecommunications operators. To achieve this framework, we propose “SightFinder,” an enhanced videophone service in which media such as video images are processed on the network by multiple pattern recognition engines working in parallel. This service sends alerts to users on local information when they cannot see it (e.g., visually impaired users) and provides explanations to users who have difficulty understanding it (e.g., foreigners).

Published as: H. Kataoka, D. Namikawa, H. Minami, M. Shimomura, and N. Uchida, “SightFinder: Enhanced Videophone Service Utilizing Media Processing,” Proc. of the 16th International Conference on Intelligence in Next Generation Networks (ICIN 2012), pp. 114–120, Berlin, Germany.

Best Student Paper Award

Winners: Susumu Kiyoshima^{†1}, Yoshifumi Manabe^{†1, †2}, and Tatsuaki Okamoto^{†1, †3}

^{†1} Graduate School of Informatics, Kyoto University

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^{†3} NTT Secure Platform Laboratories

Date: November 8, 2012

Organization: IWSEC 2012 (7th International Workshop on Security)

For “Efficient Concurrent Oblivious Transfer in Super-Polynomial-Simulation Security.”

In this paper, we show a concurrent oblivious transfer protocol in super-polynomial-simulation (SPS) security. Our protocol does not require any setup and does not assume any independence among the inputs. In addition, it is efficient since it does not use any inefficient primitives such as general zero-knowledge proofs for any NP (non-deterministic polynomial time) statements. This is the first concurrent oblivious transfer protocol that achieves both of these properties simultaneously. The security of our protocol is based on the decisional Diffie-Hellman (DDH) assumption.

Published as: S. Kiyoshima, Y. Manabe, and T. Okamoto, “Efficient Concurrent Oblivious Transfer in Super-Polynomial-Simulation Security,” Proc. of the 7th International Workshop on Security (IWSEC2012), Springer, Vol. 7631, pp. 216–232, Fukuoka, Japan.