

## Simulasi analisis risiko dan penilaian proses bisnis terkait pengamanan informasi pada infrastruktur internet = Simulation of risk analysis and business process assessment related to information security on internet infrastructure

Ridho Zamzam, author

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20250147&lokasi=lokal>

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### Abstrak

Skripsi ini membahas pemetaan proses bisnis dan penilaian kritikalitas pengamanan informasi dalam proses bisnis terkait manajemen risiko guna menunjang Sistem Manajemen Pengamanan Informasi (ISMS) berdasarkan ISO/IEC 27001:2005 dan ISO/IEC 17799:2005 sebagai panduan pengendaliannya.

Penelitian ini bertujuan untuk memperoleh alternatif risk treatment dan model simulasi peramalan serta optimasi alokasi biaya berdasarkan analisa risiko dan proses penilaian (dengan metode FRAAP - Facilitated Risk Analysis and Assessment Process) terhadap proses bisnis yang terkait dengan Information Security pada Infrastruktur Internet.

Hasil penelitian ini juga akan memperlihatkan prioritas alternatif risk treatment berdasarkan simulasi peramalan dan optimasi pengalokasian dana guna pengendalian risiko.

.....The focus of this study is about business process mapping and criticality assessment of information security in business process related to risk management in order to support Information Security Management System (ISMS) base on ISO/IEC 27001:2005 and ISO/IEC 17799:2005 as a guide of control objectives.

The purpose of this study is to obtain risk treatment alternatives and forecasting simulation model and also optimization of fund allocation base on risk analysis and business process assessment (with FRAAP method) that related to information security on internet infrastructure.

The outcome of this study also showing risk treatment alternative priority base on forecasting simulation and optimization of fund allocation in order to controlling risk.