Cyber Security Center

UBS :

Université Bretagne Sud

UMR IRISA

Research Institute in Computer
Science and Random Systems

Salah SADOU

**Full Professor
Computer Science**

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*Transdisciplinarity enriches
science, but also the scientist*

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BIO

Salah Sadou leads the transdisciplinary research of the Cybersecurity Center of UBS and the Software Cybersecurity department of ENSIBS engineering school. He obtained a PhD degree in Junuary 1992 at Ecole Centrale de Lyon, France. He has about 30 years of experience in research and education in software engineering science. His past research interests were centered on languages, processes and tools for designing and engineering systems where the evolution acts as a first-class entity. He was also involved in research concerning architectural description languages with non-functional properties as first class entities, software restructuring (from object-oriented to component-oriented), component-based description languages and software quality. His current research interests focus mainly on the "Secure by design" approach for System of Systems and Socio-technical System construction.

Link to full biography

Core data

PhD students: 20

Post-doctoral fellows: 3

Journals: 20 – JSS, Future Gener. Comput. Syst, Automated Soft. Eng., etc.

Conferences: 70 - WICSA, ECSA, ASE, CBSE, ICECCS, Middleware, etc.

Book(s): Software Evolution, Hermes-Lavoisier

Award(s): ACM SIGSOFT Distinguished Paper Award (2011), several best papers.

International collaborations: Université of Montreal (Canada), UQAM (Canada), Université Libre of Bruxelles (Belgique), Luxembourg University (Luxembourg), Qatar University (Qatar), Politecnico di Milano (Italie), etc.

Area(s) of research

Systems of Systems Security

Fields of expertise

Code vulnerability identification
Design vulnerability identification
Estimating human vulnerability in a system
Assessment of an element's vulnerability impact on the system
Proposing secure software development best practices

Applicative examples

Organization of large secure events.
Identification and correction of flaws in existing software systems.

Responsibilities

Head of Software Cybersecurity Department of ENSIBS
Scientific Header of the University Chair Cybersecurity of major public events
Co-header of the RIMEL working group from the GDR GPL of CNRS (2006-2014)
Header of the SE research team (Valoria, UBS,2004-2012)

Domain

Software security

Keywords

Secure by Design
Software Vulnerabilities
Systems of Socio-Technical
Systems Security
Security-Oriented Modeling
Security-Oriented Specification

Contact

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