Cyber Security Center

ubs:

Université Bretagne Sud

UMR IRISA

Research Institute in Computer
Science and Random Systems

Nicolas BELLOIR

Associate Professor
Computer Science

> " *It's important to go beyond the limits of our discipline to be enriched by other fields* "

BIO

After a master's degree at Paul Sabatier University (Toulouse) and a stint in the aeronautics industry, Nicolas Belloir defended his thesis on software composition at University de Pau et des Pays de l'Adour in 2004, where he is appointed as Associate Professor and focuses on engineering languages for complex systems.He joins University Bretagne Sud in 2016 and is seconded to the French Military Academy of Saint-Cyr Coëtquidan. The stakes for the creation of a true cyber force are considerable and his research, often conducted jointly for the civilian and military worlds, highlights vulnerabilities detection. Through a multidisciplinary approach, the robustness of systems is designed to counter human vulnerabilities.Beyond software aspects, he is particularly interested in social engineering and socio-technical systems of systems.

Link to full biography

Core data

PhD students: 5

Publications: 5 – Systems Engineering, JSS, etc.

Conferences: 20 – SoSE, ICSR, Euromicro, etc.

International collaborations: Polytechnic University of Valencia (Spain), UQAM (Canada).

Domain

Security by design

Area(s) of research

Systems of systems security

Fields of expertise

Vulnerability detection during the design phases
Improved communication between software (or system) engineer and safety engineer
Modeling Language

Keywords

Design
Engineering
Systems of systems security
System and human
vulnerability analysis

Applicative examples

Vulnerability analysis software for socio-technical systems

Responsibilities

Various projects in dual civil and military research (DGA – French Procurement Agency / Naval Group) on software and socio-technical systems vulnerabilities detection.

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