



Philippe TANGUY

Associate Professor
Embedded systems

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*The communicating objects security
must be designed with consumption
and durability in mind*

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BIO

Beginning with his PhD (INSA Rennes 2012), Philippe Tanguy has always been interested in embedded systems communications. As a postdoctoral fellow at Telecom Bretagne within a multidisciplinary team (IHSEV, Lab-STICC, IMT Atlantique) he studied IoT communication protocols, companion robots, health and well-being services (European project FP7 PRECIOUS). He was a teacher-researcher for two years at INSA Rennes before joining University Bretagne Sud in 2018. His work deals jointly with digital communication and hardware architecture. By designing objects that use low resources, his aim is to connect cities, industries and transport to make them smarter and more energy efficient. This is principally achieved by securing those objects and partly through communications to be more robust against network attacks.



[Link to full biography](#)



100% of the researcher's activity devoted to cybersecurity

Focus :

Research

Application field

Core data

Post-doctoral fellows: 1

Publications: 5 - JCM, JECE, JISYS, KI - Künstliche Intelligenz, EAI endorsed transactions on pervasive health and technology

Conferences: 14 - WSPLC, ATC, ITST, EAI, etc.

Book(s): 2 chapters - Vehicular Technologies (2011), CMOS Emerging Technologies (2012)

Award(s): Best Paper Award (ICSNC 2014)

Area(s) of research

Embedded systems Security

Fields of expertise

Protection of communicating embedded system architectures
Software Defined Radio

Applicative examples

Intelligent city design, intelligent transport, industry of the future, health

Collaborative projects

- Head of the Cyber Security of Embedded Systems course of the Complex Systems Engineering Master (2020 -)
- POLYPHEME (CNRS contract 2017-2018) for INEO Defense
- PRECIOUS FP7 n ° 611366 (European project) - Design of digital health and well-being services
- CIFAER (ANR 2008-2012 project) - Flexible intra-vehicle communication and reconfigurable embedded architectures

Domain

Hardware Security

Keywords

Hardware and software attacks
Network attacks
FGPA
IDS / IPS

Contact

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