



Isabelle BORNE

Full Professor
Computer Science

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Computer security is not just a matter for specialists and without women there would be no Internet - let us remember that the first «bug» was discovered thanks to Grace Hopper!

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BIO

After obtaining her PhD thesis at Pierre-et-Marie Curie University (Paris-6), Isabelle Borne spent two years post-doc in Montreal at the University of Montreal and at McGill University in Canada. Then she spent 10 years at René Descartes University (Paris 5) and then 7 years at Ecole des Mines de Nantes. In 1994 she was invited to the Educational Technology Institute at the Open University in Milton Keynes (UK) and at Manchester where she worked on object-oriented programming environments. Finally she joined the University of Bretagne Sud in 2001 where she is currently interested in the security of systems of systems, and more specifically in the use of security patterns and metrics to guarantee a level of security of software architectures of systems of systems.



[Link to full biography](#)



50% of the researcher's activity devoted to cybersecurity

Focus :

Research

Application field

Core data

PhD students: 7

Publications: 11 - JSS, Future Generation Computer, etc.

Conferences: 46 - CSMR, ECSA, SoSE, ISPEC, etc.

International collaborations: University of Montreal (Canada), Universidad de los Andes (Colombia), etc.

Area(s) of research

Security of systems of systems architectures

Fields of expertise

Modeling and meta-modeling of systems of systems architecture

Refactoring with security patterns

Software security metrics

Applicative examples

Simulation of an emergency system-of-systems

Assessment of the security level of a software architecture.

Secure smart building architecture

Responsibilities

MathSTIC Doctoral School Deputy Director

UBS management team member

Co-responsible of the MDE action of GDR GPL &ASR (2012-2015)

Security WG Co-leader of the GDR GPL software development

Domain

Software engineering

Keywords

Model based engineering
Secure software architecture
Secure by design
Security patterns

Contact

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