PLASSE Laboratory

Research Perspectives in 2010

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What?

- study the theory and practice of Programming Languages
- apply them to Software Security
- apply them to Software Engineering
- Why?
 - enhance the security of software
 - improve the quality of software
- How?
 - develop tools to guide the developers to write secure code
 - analyze programs to find security bugs and holes
 - analyze programs to extract properties of programs

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Research Themes in 2010

- Input Validation
 - is the user's input filtered properly?
 - language-based solution
 - static analysis
- Output Validation
 - syntax and semantics processing of output
 - abstract parsing and beyond
- Software Engineering Tools
 - static extraction of properties for the betterment of software engineering practices

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