











Current fashion - Pay Attention to "Non-functional properties"



- Time
- Security
- Fault tolerance
- Power consumption
- Memory management



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But the formulation of the question is very telling:

How is it that *when* a braking system applies the brakes is any less a *function* of the braking system than *how much* braking it applies?















Conclusion



We are on the line to build a *new system* science that is at once physical and computational.

It will form the foundation for our understanding of computational systems that engage the physical world.

And it will change how we teach and research the engineering of systems.

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