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ContextL is an extension to the Common Lisp Object System that allows for Context-oriented Programming. It provides means to associate partial class and method definitions with layers and to activate and deactivate such layers in the control flow ... [expand](#)

[Flexible object encapsulation for ambient-oriented programming](#)

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In the emerging field of Ambient Intelligence (AmI), software is deployed in wireless open networks of mobile devices. Such open networks require stringent security measures as unknown and untrusted hosts may join the network. In an object-oriented language, ... [expand](#)

[Higher order messaging](#)

[Marcel Weiher](#), [Stéphane Ducasse](#)

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We introduce Higher Order Messaging, a higher order programming mechanism for dynamic object-oriented languages. Higher Order Messages allow user-defined message dispatch mechanism to be expressed using an optimally compact syntax that is a natural extension ... [expand](#)

[Dynamic data polyvariance using source-tagged classes](#)

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The DDP (Demand-driven/Pruning) analysis algorithm allows us to perform data-flow analyses of programming languages that are dynamically typed and have higher-order control flow, such as Smalltalk or Scheme. Because it is demand-driven and employs ... [expand](#)

[Compile-time meta-programming in a dynamically typed OO language](#)

[Laurence Tratt](#)

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Compile-time meta-programming allows programs to be constructed by the user at compile-time. Although LISP derived languages have long had such facilities, few modern languages are capable of compile-time meta-programming, and of those that do many of ... [expand](#)

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