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Improving Web information systems with navigational patterns

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Abstract

In this paper we show how to improve the architecture of Web information systems (WIS) using design patterns, in particular navigational patterns. We first present a framework to reason about the process of designing and implementing these applications. Then we introduce navigational patterns and show some prototypical patterns. We next show how these patterns have been used in some successful WIS. Finally, we explain how patterns are integrated into the development process of WIS.



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Keywords

Web information systems; Hypermedia design; Design patterns; Navigation design

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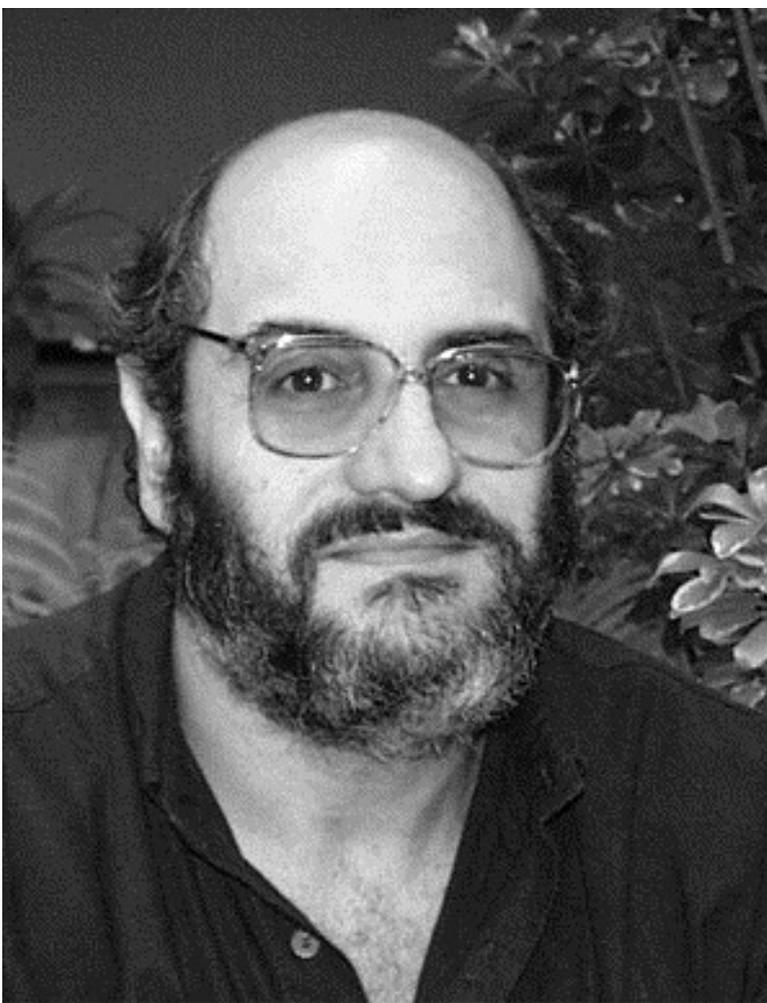
Daniel Schwabe (Ph.D., UCLA, 1981) has been working on hypermedia design methods for the past 10 years. He is one of the authors of HDM, the first authoring method for hypermedia, and of OOHDM, one of the mature methods currently in use by academia and industry for hypermedia application design. Dr. Schwabe is associate professor at the Department of Informatics of the Catholic University (PUC) in Rio de Janeiro.



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Gustavo Rossi (Ph.D., Puc-Rio, 1996) is full professor at La Plata University, Argentina. His research interests include design patterns and frameworks for hypermedia. He is one of the authors of the OOHDM methodology and is working on the application of design patterns in the hypermedia and Web field. He is the head of LIFIA, a computer science research lab in Argentina.





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Fernando Lyardet is an advanced undergraduate student at La Plata University, Argentina. He has been working in patterns and pattern languages for hypermedia and Web applications and in CASE tools for Web Information Systems. He is a research and teaching assistant at LIFIA.

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