

Turkish Journal of Electrical Engineering & Computer Sciences

Turkish Journal

of

Electrical Engineering &
Computer Sciences

A Pattern Based Approach to Web Design Formalization

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 [Keywords](#)
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Abstract: World Wide Web is a global information network that affects many fields of our lives. The distributed, interlinked, visual and heterogeneous structure of the web makes it an irregular development environment. In this paper we propose a pattern based approach for increasing the effectiveness of development for the Web environment. This approach is based on the representation of the core meaning of each design as a set of patterns and requires the formulation of abstract solutions in a mathematical precision. This way not only reusable design experience will be codified unambiguously, but a smooth transition between the design and implementation phases will be realized.

Turk. J. Elec. Eng. & Comp. Sci., **12**, (2004), 117-126.

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