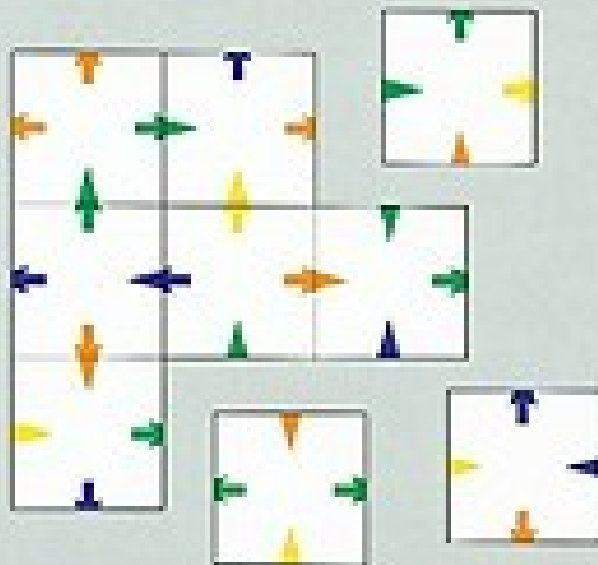

Spektrum Lehrbuch

Uwe Schöning

Algorithmik



Spektrum
AN DER UNIVERSITÄT WÜRZBURG

Algorithmik by Uwe Schöning

Uwe Schöning

Dieses Lehrbuch der Algorithmik stellt die grundlegenden Algorithmen dar und vermittelt die Prinzipien von Algorithmusanalyse und -entwurf. In einem einführenden Kapitel werden die benötigten Grundbegriffe aus der Theoretischen Informatik, der Stochastik und der Komplexitätsanalyse Algorithmik bereitgestellt. Die folgenden Kapiteln behandeln die Gebiete Sortieren und Selektion, Hashing, Dynamisches Programmieren, Greedy-Algorithmen, Algorithmen auf Graphen, Optimiertes Suchen in Bäumen, Datenkompression sowie algebraische Algorithmen, String Matching und Heuristiken. Im abschliessenden Kapitel werden die effizientesten Algorithmen für das Erfüllbarkeitsproblem der Aussagenlogik diskutiert. Prof. Schöning gelingt durch seinen verständlichen Stil, viele Beispiele und das Aufzeigen von Querverbindungen eine lebendige und intestine verständliche Gesamtdarstellung der Algorithmik."

Algorithmik

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