



## Design of Scientific Workflows for Analysis of Microarray Experiments

By Marcus Ertelt

VDM Verlag. Paperback. Condition: New. 160 pages. Dimensions: 8.7in. x 5.9in. x 0.4in. Scientific Workflows are a new way to model complex scientific tasks. With Scientific Workflow Management Systems it is possible to map required steps of a Scientific Workflow onto available computational resources, mainly in the form of web services. This way Scientific Workflows offer access to highly specialised functions which can be orchestrated to solve complex problems. Biologists who perform microarray experiments produce large amounts of raw data which they themselves often cannot process and analyse. Because some of the best statistical methods in this area are implemented as packages for the R programming language Biologists often have to rely on Statisticians or Bioinformatics for the analysis of their data. This work gives an overview of the current state of Scientific Workflows and Scientific Workflow Management Systems and shows how pieces of R code can be wrapped into web services. With these web services workflows have been designed using Taverna, a prominent example for Scientific Workflow Management Systems. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.



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