

# Designing Software–Intensive Systems: Methods and Principles

Pierre F. Tiako  
*Langston University, USA*

Information Science  
**REFERENCE**

**INFORMATION SCIENCE REFERENCE**

Hershey • New York

Acquisitions Editor: Kristin Klinger  
Development Editor: Kristin Roth  
Senior Managing Editor: Jennifer Neidig  
Managing Editor: Jamie Snavelly  
Assistant Managing Editor: Carole Coulson  
Copy Editor: Lanette Ehrhardt  
Typesetter: Michael Brehm  
Cover Design: Lisa Tosheff  
Printed at: Yurchak Printing Inc.

Published in the United States of America by  
Information Science Reference (an imprint of IGI Global)  
701 E. Chocolate Avenue, Suite 200  
Hershey PA 17033  
Tel: 717-533-8845  
Fax: 717-533-8661  
E-mail: [cust@igi-global.com](mailto:cust@igi-global.com)  
Web site: <http://www.igi-global.com>

and in the United Kingdom by  
Information Science Reference (an imprint of IGI Global)  
3 Henrietta Street  
Covent Garden  
London WC2E 8LU  
Tel: 44 20 7240 0856  
Fax: 44 20 7379 0609  
Web site: <http://www.eurospanbookstore.com>

Copyright © 2009 by IGI Global. All rights reserved. No part of this publication may be reproduced, stored or distributed in any form or by any means, electronic or mechanical, including photocopying, without written permission from the publisher.

Product or company names used in this set are for identification purposes only. Inclusion of the names of the products or companies does not indicate a claim of ownership by IGI Global of the trademark or registered trademark.

#### Library of Congress Cataloging-in-Publication Data

Designing software-intensive systems : methods and principles / Pierre F. Tiako, editor.  
p. cm.

Summary: "This book addresses the complex issues associated with software engineering environment capabilities for designing real-time embedded software systems"--Provided by publisher.

Includes bibliographical references and index.

ISBN 978-1-59904-699-0 (hardcover) -- ISBN 978-1-59904-701-0 (ebook)

1. Software engineering. 2. Computer systems. 3. Systems engineering--Data processing. I. Tiako, Pierre F.

QA76.758.D476 2008

005.1--dc22

2008008468

#### British Cataloguing in Publication Data

A Cataloguing in Publication record for this book is available from the British Library.

All work contributed to this book set is original material. The views expressed in this book are those of the authors, but not necessarily of the publisher.

*If a library purchased a print copy of this publication, please go to <http://www.igi-global.com/agreement> for information on activating the library's complimentary electronic access to this publication.*

21 more pages are available in the full version of this document, which may be purchased using the "Add to Cart" button on the publisher's webpage: [www.igi-global.com/chapter/service-orientation-software-intensive-systems/8233](http://www.igi-global.com/chapter/service-orientation-software-intensive-systems/8233)

## Related Content

---

### Privacy Preserving Feature Selection for Vertically Distributed Medical Data based on Genetic Algorithms and Naïve Bayes

Boudheb Tarikand Elberrichi Zakaria (2018). *International Journal of Information System Modeling and Design* (pp. 1-22).

[www.irma-international.org/article/privacy-preserving-feature-selection-for-vertically-distributed-medical-data-based-on-genetic-algorithms-and-nave-bayes/218169](http://www.irma-international.org/article/privacy-preserving-feature-selection-for-vertically-distributed-medical-data-based-on-genetic-algorithms-and-nave-bayes/218169)

### Educational Theory Into Practice Software (ETIPS)

Sara Dexter (2009). *Software Applications: Concepts, Methodologies, Tools, and Applications* (pp. 708-717).

[www.irma-international.org/chapter/educational-theory-into-practice-software/29417](http://www.irma-international.org/chapter/educational-theory-into-practice-software/29417)

### Software Configuration Management in Agile Development

Lars Bendixand Torbjörn Ekman (2009). *Software Applications: Concepts, Methodologies, Tools, and Applications* (pp. 291-308).

[www.irma-international.org/chapter/software-configuration-management-agile-development/29394](http://www.irma-international.org/chapter/software-configuration-management-agile-development/29394)

### Formal Semantics of Dynamic Constraints and Derivation Rules in ORM

Herman Balstersand Terry Halpin (2016). *International Journal of Information System Modeling and Design* (pp. 31-47).

[www.irma-international.org/article/formal-semantics-of-dynamic-constraints-and-derivation-rules-in-orm/162695](http://www.irma-international.org/article/formal-semantics-of-dynamic-constraints-and-derivation-rules-in-orm/162695)

### Systems Analysis and Design in Polish Universities Curricula: Structured or Object-Oriented

Przemyslaw Polak (2009). *Systems Analysis and Design for Advanced Modeling Methods: Best Practices* (pp. 88-95).

[www.irma-international.org/chapter/systems-analysis-design-polish-universities/30016](http://www.irma-international.org/chapter/systems-analysis-design-polish-universities/30016)