DESCRIPTION

This book is designed for professionals and students in software engineering or information technology who are interested in understanding the dynamics of software development in order to assess and optimize their own process strategies. It explains how simulation of interrelated technical and social factors can provide a means for organizations to vastly improve their processes. It is structured for readers to approach the subject from different perspectives, and includes descriptive summaries of the best research and applications.

ABOUT THE AUTHOR

Raymond J. Madachy, PhD, is a Research Assistant Professor in the USC Industrial and Systems Engineering Department and a Principal of the USC Center for Systems and Software Engineering. Dr. Madachy's current research interests include modeling and simulation of processes for architecting and engineering of complex software-intensive systems; economic analysis and value-based engineering of software-intensive systems; systems and software measurement, process improvement, and quality; quantitative methods for systems risk management; integrating systems engineering and software engineering disciplines; and integrating empirical-based research with process simulation. He is a Senior Member of IEEE and a member of ACM.
FEATURES

• This book provides executable models and simulation tools: How to actually do hands-on modeling of software processes with system dynamics, and it synthesizes all previous work in the area. Included are descriptive summaries of the best research and applications.

• It is accompanied by tools, executable model examples and other references for people to start modeling with.

• There are a variety of exercises in the book that are provided to serve as homework assignments, exam questions and/or even as major research projects.

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