Contents

Part I  Introduction

1  Introduction ........................................................................................................ 3
   Jan Fransoo, Toni Wäfler, and John R. Wilson

2  Decision Making in Planning and Scheduling: A Field Study
   of Planning Behaviour in Manufacturing ..................................................... 11
   Roland Gasser, Katrin Fischer, and Toni Wäfler

3  The Interconnectivity of Planning and Shop Floor: Case
   Description and Relocation Analysis ......................................................... 31
   Cees De Snoo and Wout van Wezel

Part II  Organization of the Planning Process

4  The Unsung Contribution of Production Planners
   and Schedulers at Production and Sales Interfaces  ............................... 47
   Martina Berglund, Jane Guinery, and Johan Karltn

5  Collaborative Planning in Supply Chains: The Importance
   of Creating High Quality Relationships ............................................... 83
   Hannes Günter, Cees De Snoo, Craig Shepherd, Philip Moscoso,
   and Johann Riedel

6  Measuring Supply Chain Performance: Current Research
   and Future Directions .................................................................................. 105
   Craig Shepherd and Hannes Günter
7 Planning Information Processing along the Supply-Chain: A Socio-Technical View .................................................. 123
Bernard Grabot, Stefan Marsina, Anne Mayère, Ralph Riedel, and Peter Williams

8 The Planning Bullwhip: A Complex Dynamic Phenomenon in Hierarchical Systems .................................................. 159
Philip Moscoso, Jan Fransoo, Dieter Fischer, and Toni Wäfler

9 Product Centric Organization of After-Sales Supply Chain Planning and Control .................................................... 187
Jan Holmström, Naoufel Cheikhrouhou, Gael Farine, and Kary Främling

10 Human Control Capabilities ........................................... 199
Toni Wäfler, Rüdiger von der Weth, Johan Karlton, Ulrike Starker, Kathrin Gärtner, Roland Gasser, and Jessica Bruch

11 Building Decision Support Systems for Acceptance ................. 231
Ralph Riedel, Jan Fransoo, Vincent Wiers, Katrin Fischer, Julien Cegarra, and David Jentsch

Part III Design and Support of the Planning and Scheduling Task

12 Design of Scheduling Algorithms ...................................... 299
Jan Riezebos, Jean-Michel Hoc, Nasser Mebarki, Christos Dimopoulos, Wout van Wezel, and Guillaume Pinot

13 A Comparison of Task Analysis Methods for Planning and Scheduling .......................................................... 323
Julien Cegarra and Wout van Wezel

14 Allocating Functions to Human and Algorithm in Scheduling ...... 339
Wout van Wezel, Julien Cegarra, and Jean-Michel Hoc

15 Design of Scheduling Algorithms: Applications ....................... 371
Jan Riezebos, Jean-Michel Hoc, Nasser Mebarki, Christos Dimopoulos, Wout van Wezel, and Guillaume Pinot

16 Case Study: Advanced Decision Support for Train Shunting Scheduling .................................................... 413
Wout van Wezel and Jan Riezebos
Contents

Part IV  HOPSopedia

17  An Open Source Encyclopedia and Debating Instrument for Planning Terms: The Hopsopedia ............................................. 433
    Cees De Snoo, Wout van Wezel, and Jan Riezebos

18  A Sample of Hopsopedia Term Descriptions .......................... 443
    Cees De Snoo, Wout van Wezel, and Jan Riezebos

About the Editors ................................................................. 461

Index ................................................................. 473
Behavioral Operations in Planning and Scheduling
Fransoo, J.C.; Waefler, T.; Wilson, J.R. (Eds.)
2011, XIII, 477 p., Hardcover
ISBN: 978-3-642-13381-7