



Design Science Research: A Method for Science and Technology Advancement

By Aline Dresch, Daniel Pacheco Lacerda, José Antônio Valle Antunes Jr

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Advancement By Aline Dresch, Daniel Pacheco Lacerda, José Antônio Valle Antunes Jr

Consolidating existing knowledge in Design Science, this book proposes a new research method to aid the exploration of design and problem solving within business, science and technology. It seeks to overcome a dichotomy that exists in the field between theory and practice to enable researches to find solutions to problems, rather than focusing on the explanation and exploration of the problems themselves.

Currently, researches concentrate on to describing, exploring, explaining and predicting phenomena, and little attention is devoted to prescribing solutions. Herbert Simon proposes the need to develop a Science of the Artificial (Design Science), arguing that our reality is much more artificial than natural. However, the research conducted on the Design Science premises has so far been scattered and erratic in different fields of research, such as management, systems information and engineering. This book aims to address this issue by bringing these fields together and emphasising the need for solutions.

This book provides a valuable resource to students and researchers of research methods, information systems, management and management science, and production and operations management.

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Editorial Review

From the Back Cover

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ALINE DRESCH: Ph.D. student in Production Engineering at UFSC, CNPq Fellow. Master's Degree in Production and Systems Engineering by Universidade do Vale do Rio dos Sinos. Production Engineering Graduate by Universidade do Vale do Rio dos Sinos (2010) and Teacher Training Graduate by Universidade do Sul de Santa Catarina (2011). GMAP Research Assistant (Research Group on Modeling for Learning) at Universidade do Vale do Rio dos Sinos. Experience in the engineering area, mainly in the following themes: research methodology, processes, lean manufacturing, theory of constraints, systemic thinking.

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JOSÉ ANTONIO VALLE ANTUNES JÚNIOR: Bachelor's Degree in Mechanical Engineering by Universidade Federal do Rio Grande do Sul (1981), Mechanical Engineering Specialist with an Emphasis in Thermal Engineering by Universidade Federal de Santa Catarina (1985), Mechanical Maintenance Engineering Specialist by Engenharia de Manutenção Mecânica da Petroquisa Petrobrás (1982), Master's Degree in Production Engineering by Universidade Federal de Santa Catarina (1988) and Ph.D. in Business Administration by Universidade Federal do Rio Grande do Sul (1998). Currently a professor at Universidade do Vale do Rio dos Sinos, Director of the Produttore Associate Consultants and Director of Efact Software Company. Experience in the Administration area, with an emphasis in Business Administration. Acting on the following topics: Theory of Constraints, Toyota Production System, Zero Inventory Production Systems.

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