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(Eds.)

Proceedings of the 22nd International Dependency and Structure Modeling (DSM) Conference

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Foreword

Welcome to the 2020 edition of the International Dependency and Structure Modeling (DSM) Conference. Due to the ongoing COVID-19 situation, DSM 2020 is held as an online only event on October 13th to 15th hosted by the Massachusetts Institute of Technology, Massachusetts, USA.

DSM (Dependency and Structure Modelling, also known as the Design Structure Matrix) methods have proven invaluable in designing and understanding complex systems, from product architectures to work processes to large organizations.

The International DSM Conference is the annual forum for practitioners, researchers, and developers to exchange experiences, discuss new concepts, and showcase results as well as new methods and tools. The event provides participants with new insights, ideas, and solutions for dependency and structure modeling.

The papers submitted for this year's conference were each reviewed by at least two members of the Scientific Committee, who made acceptance/rejection recommendations and provided helpful guidance for revisions. The accepted papers appearing in these Proceedings have been improved based on that feedback.

This volume contains 22 peer-reviewed papers that describe the recent advances and emerging challenges in DSM research and applications. They advance the DSM concepts and practice in 5 main areas:

1. Process Architectures
2. Product Architectures
3. Project Management
4. Organizational Architectures
5. Integration Architectures

These Proceedings represent a broad overview of the state-of-the-art on the development and application of DSM. Understanding and managing complex interdependent relationships within and across product/process/people architectures is a recurring theme troughout this year's conference. Furthermore, there are a significant number of contributions with industry authors or co-authors, reflecting this balance and synergy between conceptual development and real-life industrial application, which are in the genes of the DSM Conference series.

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All contributions in these proceedings have undergone a rigid review process. We would like to cordially thank all reviewers for their invaluable support.

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