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MATH 2 PRODUCT (M2P): EMERGING TECHNOLOGIES IN COMPUTATIONAL SCIENCE FOR INDUSTRY, SUSTAINABILITY AND INNOVATION

TRACK NUMBER 1200 - MODELING AND ANALYSIS OF REAL WORLD AND INDUSTRY APPLICATIONS

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ABSTRACT

Mathematical models and computational methods have gained an increasing importance in the simulation of real world and industrial problems. The employment of such methodologies deeply changed the standard ways of conceiving daily industrial production and strategies for sustainable exploitation of modern cities.

The goal of this session is twofold. On the one hand, cases of successful interaction between mathematics and industry will be presented. Special emphasis will be devoted to the benefits provided by the transfer of knowledge in different fields of applications, including the social challenges of sustainable development. On the other hand, groundbreaking ideas and emerging technologies in computational science will be discussed to foster cross-fertilization of academic solutions and real-world problems.

Math 2 Product is meant as a seed idea to establish a platform for proposal, discussion and promotion of current and new trends in industry, sustainability and innovation, with the goal of supporting creative and interdisciplinary thoughts.