

ICCBMA 2024

Special Sessions & Mini-Symposia

Special sessions (SS), on projects, clusters or networks, and mini-symposia (MS), with possible keynote lectures proposed by MS organizers, on research or/and industrial hot topics will be organized by international scientific committee members and experts in CBM research fields.

Please send an e-mail to contact@iccbma.eu with the following information:

- Format: SS (1 session of 6 presentations):
- Title: Embedded Life-Cycle Management for Smart Multimaterials Structures: Application to Engine Components (MORPHO H2020 Project)
- Organizer(s): Nazih MECHBAL, Arts & Métiers Institute of Technology, France
- Content: MORPHO is an industrial research project, financed by the Horizon 2020 programme with a budget of €5 million, whose ambition is to accompany the development of smart aeronautical parts namely engine fan blades, to endow them with cognitive capabilities, and to optimise their manufacturing and their life cycle management. MORPHO "Manufacturing, Overhaul, Repair for Prognosis Health Overreach" aims to, design, develop, test and validate an innovative, robust, and environmentally friendly industrial process to manufacture, monitor, and recycle a new generation of intelligent, multifunctional, multi-material parts such as engine fan blades. This process will rely on embedded sensors, data-driven hybrid twins, and machine learning algorithms to track the entire life cycle of the targeted aeronautical parts in real-time. This special session will present and discuss the recent advances achieved during the project.