

# Special issue of Embodying Intelligence in Structures and Integrated Systems

## Preface

The author of this short introduction to this special issue (devoted to the topic: **Embodying Intelligence in Structures and Integrated Systems**) started his cooperation with **CIMTEC** (acronym from the French translation of International Conferences on Materials and Technologies) in 2008, when he agreed to organize a Forum with that title within the 6th Forum on New Materials. The experience was then repeated in 2012, 2016 and, after the COVID-19 pause, in 2022. The plenary lecture held by Byung Lee at the 9th Forum on New Material on June 26, 2022, gave evidence of the current effort via multifunctional materials and systems toward the realization of autonomic architectures in different branches of engineering. A grant (12843068 of 2019) from **AFOSR** (Air Force Office of Scientific Research) allowed to extend and to discuss these concepts.

The authors contributing this special issue were the actors of a continuous and promising development in these 14 years. The first four papers cover materials and sensors, the following three address the data elaboration and the last four afford different areas of application.

Artificial intelligence, which is the core of current research developments toward the 5G society integration, is masked in them, but they result beyond it since already able to express complete implementations.

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