

TREE-TOWER

The digital future of real materials



High-Tech digital solutions for materials and production processes

TREE-TOWER develops innovative software tailored to specific needs to support companies in the era of smart manufacturing, providing solutions for the integration of:

- Virtual Testing of materials and components
- Digital Twins of products and processes
- Computer Aided Design
- Computer Aided Engineering
- Fast prototyping solutions
- Sensor networks design
- Big-data analytics for production and maintenance
- Corporate strategy

High-Tech R&D

Innovative solutions integrating numerical methods, mechanics and materials science, using innovative software.

Virtual testing of materials

Finite element & computational fluid dynamics software to perform virtual testing of materials and components, saving time requested for lab experiments and speeding-up the design of new products.

TREE-TOWER accreditations

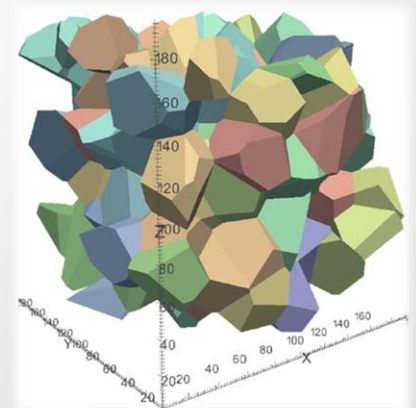
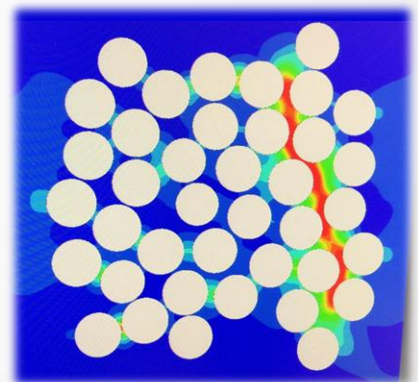
- Innovative start-up (Italian Law 221/2012)
- Academic spin-off of IMT School for Advanced Studies Lucca
- Incubated company at Technological Pole of Lucca

Digital Twin models

Software to create the digital model of a real material or a production process, to allow for its real-time optimization and control.

CAD-CAE integration software

Software to integrate computer aided design (CAD) and computer aided engineering (CAE) tools for materials and components, exploiting Virtual Reality for visualization.



TREE-TOWER history in a nutshell

TREE-TOWER was founded in April 2019 by Dr. Francesco Biancalani and Prof. Dr. Ing. Marco Paggi, to develop customized high-tech digital solutions for smart manufacturing. Awarded 3rd place at the Start Cup Tuscany 2019 competition among the best entrepreneurial ideas in 2019.



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