

Family name: **KATSAROS**

First name: **MILTADIS**

Profession: Dipl. Architect Eng., NTUA
M.Arch, U.Des Cert., Univ. of Pennsylvania

Present position: Assistant Professor, School of Architecture, NTUA

Academic activities:

- Teaching courses & studios in the scientific domains: a) building tectonics and innovation, b) energy-performance and sustainability, in architectural design, c) architectural design, d) architecture and AI.
- He is the head of the 'Acoustics Laboratory', of the School of Architecture, NTUA (2018).
- Served as a visiting professor 'in the University of Cyprus (2017), and as an adjunct professor in the University of Patras (2001-4).
- Participated as a trainer in educational workshops and seminars in Greece and abroad.
- Supervising professor in several postgraduate or doctoral (PhD) theses, in the scientific domains of advanced architectural technology, sustainable design and energy efficiency / performance in buildings.

Scientific & research activities: Member of,

Professional organizations:

- Technical Chamber of Greece, Greek Architects Association, etc.,

Governmental committees:

- 2020, KE.S.A. (Central Board of Architecture), YPEN Ministry
- 2020, Public Works Council, YME Ministry
- 2015-17, coordination committee for the update of national legislation on the energy performance of buildings,
- 2013-14, committee for the updating of the regulation and technical specifications of 'public shelters' for the protection of people and things,
- 2013, committee for the preparation of technical guidelines for the implementation of the new building code,
- 2013, committee for the preparation of the new building regulation,

Professional institutions' technical committees (TC):

- a) For the Hellenic Organization for Standardization: 2014/ 'sustainability for building structures' TC, 2014/ 'building energy efficiency standardization' TC,
- b) For the Technical Chamber of Greece:
 - 2016-17, as a coordinator, in 'TC for reviewing the technical guidelines for the implementation of the new building energy performance regulation (KENAK) and the relating legislation, with an emphasis in (b.1) preparation of the framework and the technical guidelines and directions for the energy upgrading of traditional buildings and (b.2) technical guidelines and directions for the implementation of sustainable design and bioclimatic architecture in buildings,
 - 2005-7, as a member of the 'standing committee' on research, technology and innovation.

Also, he has participated in int. conferences [8], scientific meetings and workshops [15], has presented lectures in public institutions [20], and has published articles in scientific reviews or conference-proceedings [13], or technical magazines [1].

His recent research activities are focused in the following scientific domains:

- a) 'Typical building types of Greece' in the context of energy performance in buildings & its cost optimality (2015-17),
- b) Design principles and legislative guidelines for zero-energy-buildings (2017-present),
- c) Also in the context of the building tectonics and innovation in architectural design, is focusing in: (c.1) 'design analysis, modeling and 3D/4D/5D simulation of building systems & structures (2013-present) and (c.2) 'digital survey, mapping and documentation of building or cultural environments - at multiple scales - with the use of advanced digital tools (UAV-drones, thermal processors, etc.) and AI / robotic-optic-systems for the semantic mapping of building elements and landscapes' (2016-present).

Awards:

He has participated (alone or in partnerships) in [16] architectural competitions in Greece and abroad, with [10] distinctions, (5 of them awarded first prizes). Also has received: Fellowship of Fulbright Foundation (1991-92), Fellowship of the University of Pennsylvania (1991-92), Award "A. Ploumistou N.T.U.A." (1993), Fellowship of the Institution of National Scholarships (I.K.Y.) of Greece (1997-98).

Professional activities:

Has designed & supervised, either individually or in partnership, several projects (150+), in Greece or abroad, i.e.:

- public buildings (e.g. the new building of the Nuclear Institute at the Democritus RC, the new building of IGME in the Athens Olympic Village, the new town hall for the city of Livadia, the new buildings of the department of Biology in Univ. of Cyprus, central educational facilities building for the school of architecture of the Univ. of Patras, public schools, etc.),
- several regeneration projects of urban areas (e.g. regeneration of central area of Volos, Piraeus Ave. redevelopment, etc.),
- transport infrastructure buildings,
- office & retail buildings,
- housing developments and apartment-buildings (e.g. Burj-Al-Masa project in Tunis, etc.),
- flats & single houses,
- commercial and industrial buildings,
- hotels (e.g. urban-suites project in Nicosia, etc.)
- restoration of traditional or historic buildings studies (such as the interior design of the West Wing of Pantocrator Monastery at Mount Athos, etc.).

Finally, as a consultant engineer, has an extensive experience in project & contract management, and in project development and real estate consulting.