

G.-Fivos Sargentis

Dr. Engineer-Sculptor

# Selected works



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<https://g-fivos.gr/>

April 2026

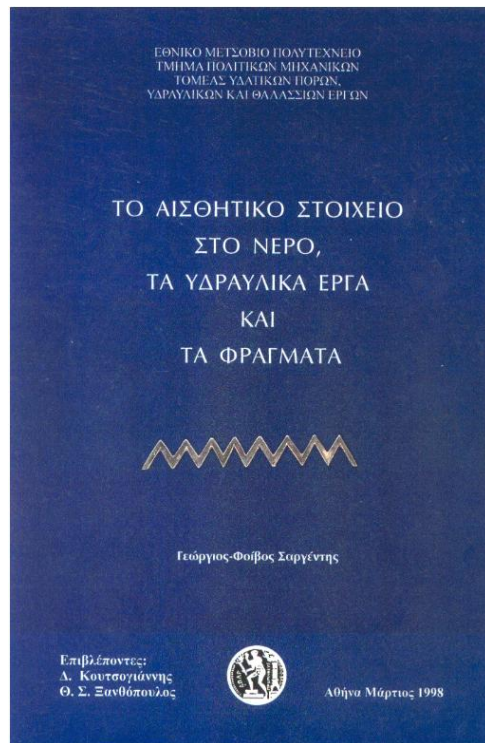
1985-1990



1991-2000



1998

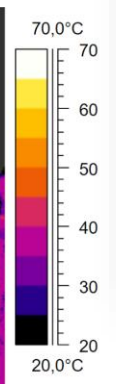
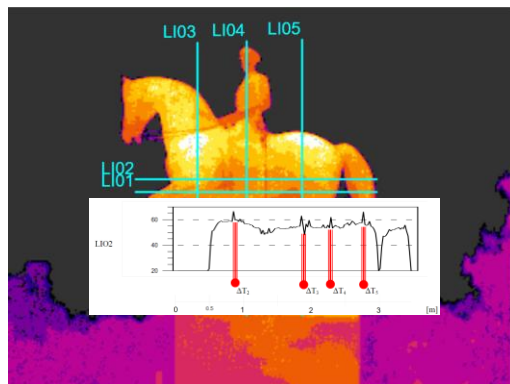
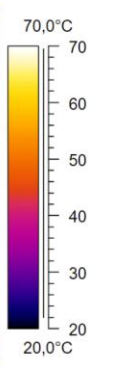
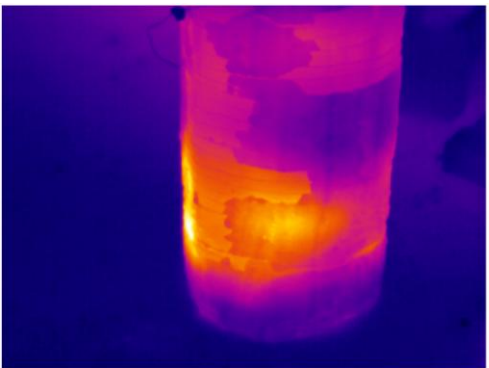
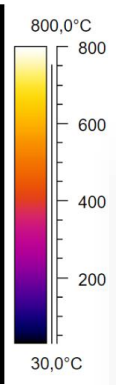
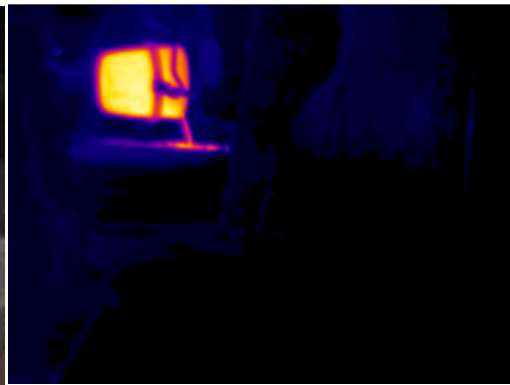
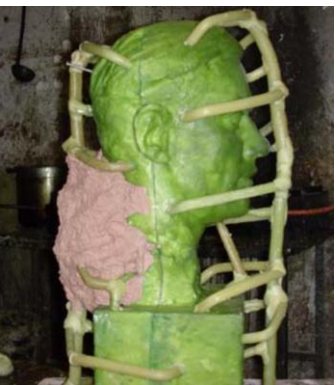


2001-2006



# 2000-2006. PhD thesis


## The Use and Technical Aspects of Materials in Sculpture




ΕΘΝΙΚΟ ΜΕΤΕΩΡΟΛΟΓΙΟ ΠΟΛΥΤΕΧΝΕΙΟ  
ΣΧΟΛΗ ΑΡΧΙΤΕΚΤΟΝΩΝ ΜΗΧΑΝΙΚΩΝ  
ΤΟΜΕΑΣ ΣΥΝΘΕΤΩΝ ΤΕΧΝΟΛΟΓΙΚΗΣ ΑΙΧΜΗΣ  
ΕΡΓΑΣΤΗΡΙΟ ΤΕΧΝΙΚΩΝ ΥΛΙΚΩΝ  
ΔΙΕΥΘΥΝΤΗΣ ΚΑΘΗΓΗΤΗΣ ΑΔΑΜ Γ. ΚΟΡΡΙΝΑΙΟΣ

Η ΧΡΗΣΗ ΚΑΙ Η ΣΥΜΠΕΡΙΦΟΡΑ ΤΩΝ ΥΛΙΚΩΝ ΣΤΗΝ  
ΓΥΛΙΠΤΙΚΗ

Γ. ΦΩΙΒΟΣ ΠΑΡΕΝΤΗΣ ΠΟΛΙΤΙΚΟΣ ΜΗΧΑΝΙΚΟΣ Ε.Μ.Π.  
ΕΠΙΒΛΕΠΩΝ ΚΑΘΗΓΗΤΗΣ ΑΔΑΜ Γ. ΚΟΡΡΙΝΑΙΟΣ



70,0°C  
60  
50  
40  
30  
20,0°C

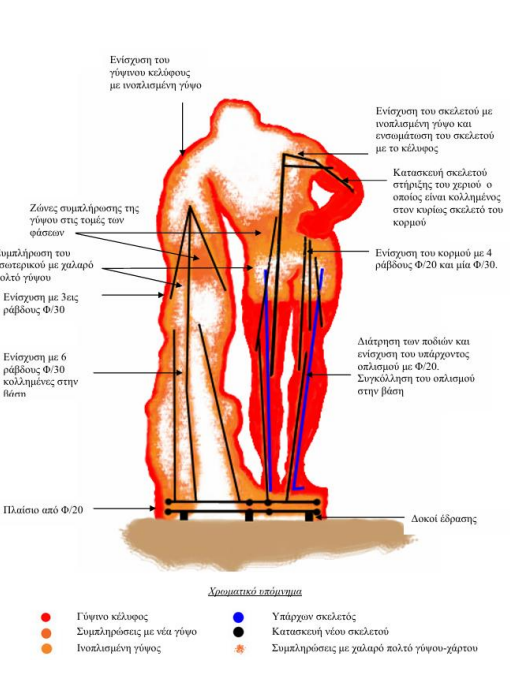


Δι. Δοκτορική Διατριβή  
ΑΘΗΝΑ 2007

# 2001-2008. Research projects

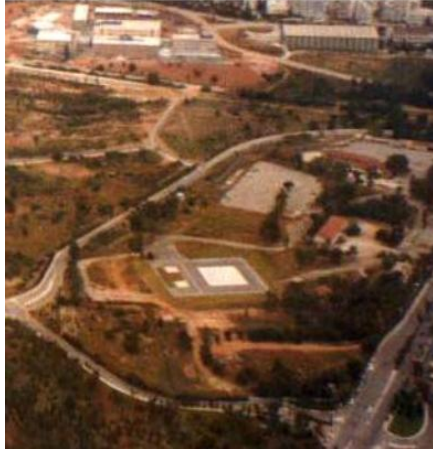
N.T.U.A. HISTORICAL RECTOR'S BUILDING, Creation of a Museum of Research and Technology, Recreation of Artistic Property and Documentation of History

Plastiras' lake  
Schinias-Marathon National Park  
DAFNI Sustainable Islands Network



# 2002-2004

700-bed hostels at the Zografou University Campus

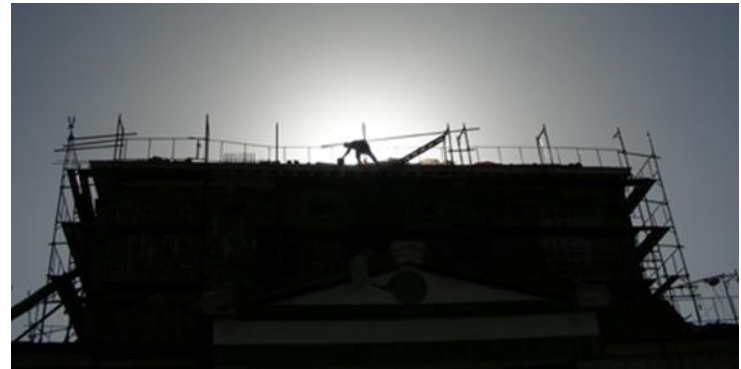


# 2006-2010

Averof building



<https://youtu.be/Jh14L2TnZoc?si=PMk3XJUasgaZ7QEe>



**EUROPEAN HERITAGE  
EUROPA NOSTRA  
AWARDS**

# 2007-2017. Earth architecture



**Η Γη ως Υλικό**  
 χειρίδιο με σπάζ λάμα για την αρχιτεκτονική-με-τη-γη



Γ. ΦΟΥΒΟΣ ΣΑΡΓΕΝΤΗΣ  
 ΝΙΚΟΛΑΟΣ ΣΥΜΕΩΣΙΔΗΣ  
 ΑΘΗΝΑ 2008  
 eco-dome.gr



**Σχέδια για τη Γη**  
 χειρίδιο με σπάζ λάμα για την αρχιτεκτονική-με-τη-γη



Γ. ΦΟΥΒΟΣ ΣΑΡΓΕΝΤΗΣ  
 ΝΙΚΟΛΑΟΣ ΣΥΜΕΩΣΙΔΗΣ  
 ΑΘΗΝΑ 2008  
 eco-dome.gr

## υλΟικολογία

ΜΕΘΟΔΟΙ ΚΑΙ ΚΡΙΤΗΡΙΑ ΑΞΙΟΛΟΓΗΣΗΣ  
 ΤΗΣ ΟΙΚΟΛΟΓΙΚΗΣ ΣΥΜΠΕΡΙΦΟΡΑΣ  
 ΤΩΝ ΔΟΜΙΚΩΝ ΥΛΙΚΩΝ

Γ.-ΦΟΥΒΟΣ ΣΑΡΓΕΝΤΗΣ  
 Δρ. Μηχανικός



ΣΥΛΛΟΓΟΣ ΑΡΧΙΤΕΚΤΟΝΩΝ  
 ΔΙΠΛΩΜΑΤΟΥΧΩΝ  
 ΑΡΧΙΤΕΚΤΩΝ ΕΛΛΑΔΟΣ/  
 ΠΑΝΕΛΛΗΝΙΑ ΕΝΩΣΗ  
 ΑΡΧΙΤΕΚΤΟΝΩΝ



ΜΗΧΑΝΙΚΟΙ ΤΗΣ ΓΗΣ

ΣΔΔΑΣ ΠΕΑ: 13<sup>ο</sup> εθνογραφικό Εργαστήριο - Σεινόγιο  
 «ΡΥΘΜΗ ΔΟΜΗΣΗ ΚΑΙ ΕΦΑΡΜΑΤΙΚΗ ΠΡΟΣΕΓΓΙΣΗ ΤΗΣ  
 ΑΠΟΚΑΤΑΣΤΑΣΗΣ»  
 26 Μαΐου έως 31 Ιουνίου 2018  
 Σενάκιον Στάθμου Σπυρίνου Βόλη Μερό Βόλου.

Μηχανική-περιβαλλοντική συμπεριφορά και εφαρμογές της άνισης γης



Γ.-ΦΟΥΒΟΣ ΣΑΡΓΕΝΤΗΣ  
 Δρ. Μηχανικός



ΣΥΛΛΟΓΟΣ ΑΡΧΙΤΕΚΤΟΝΩΝ  
 ΔΙΠΛΩΜΑΤΟΥΧΩΝ  
 ΑΡΧΙΤΕΚΤΩΝ ΕΛΛΑΔΟΣ/  
 ΠΑΝΕΛΛΗΝΙΑ ΕΝΩΣΗ  
 ΑΡΧΙΤΕΚΤΟΝΩΝ



ΜΗΧΑΝΙΚΟΙ  
 ΤΗΣ ΓΗΣ

ΒΟΛΟΣ 2018

2008



Genesis.  
The game  
of man  
in the world



2013



2014





# 2014-2024



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10 May 2024

### Technologies | 2022 Editor's Choice Articles—Part II

We are pleased to share the following ten Editor's Choice articles published in Technologies (ISSN: 2227-1080). These papers were selected by our Editors-in-Chief and Editorial Board Members from the most notable papers published in Volume 10 (2022). All these papers are of particular interest and importance to readers and have been well received by researchers.

1. "3D Scanning/Printing: A Technological Stride in Sculpture" by G. Fosti, S. Sargioti, K. Vassiliou, M. Cheloni, D. Katsouris, S. Karamanlidou, S. Karamanlidou, and N. Koz D. Lazarou. Technologies 2022, 10(1), 6. <https://doi.org/10.3390/technologies1001006>. Available online: <https://www.mdpi.com/2227-1080/10/1/6>

# 2014-2017. Teaching and research

Educational and research work at the Laboratory of Construction Materials of the School of Architecture, National Technical University of Athens (N.T.U.A.).



# 2018-2019

ΣΑΔΑΣ-ΠΕΑ: 13th and 14th Weekly Workshop-Seminar «Natural building and an alternative approach to restoration" [Stamos Stournas](#)  
[Guesthouse, Alli Meria, Volos](#)





# 2017-2026. Teaching and research

Educational and research work at the Laboratory of Construction Materials of the School of Civil Engineering, National Technical University of Athens (N.T.U.A.).  
[Stuff we don't mention in the normal course of studies](#)

## Geoinformation flood risk assessment

Εθνικό Μετσόβιο Πολυτεχνείο Σχολή Πολιτικών Μηχανικών

**Καλοκαιρινό εργαστήριο**  
 Παραλειπούμενα της εκπαιδευτικής διαδικασίας

3-9 Ιουλίου 2023

Artificial intelligence & 3D printing. Ο ρόλος του μηχανικού  
 Κλιματική αλλαγή  
 Μεταβαλλόμενα τοπία (πυρκαγιάς, μεταβολές χλωρίδας)  
 Τοπία και έργα υποδομής  
 Ο ρόλος του πλέγματος νερού-ενέργειας-τροφίμων

**campingrovies**  
 Βόρεια Εύβοια, κάμπινγκ Ροβιές  
 Κόστος διανυκτέρευσης 5 €/ημέρα

Δηλώσεις συμμετοχής  
 email: fivos@ita.ntua.gr

**ADDOPTML**  
 Προσπασιά υποβολής δηλώσεων: 31.5.2023 (θέσεις περιορισμένες)



## 再治水智慧的当代诠释

Modern Interpretation of Dayu's Water Wisdom

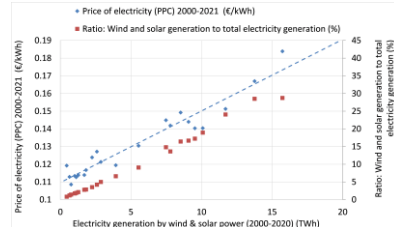
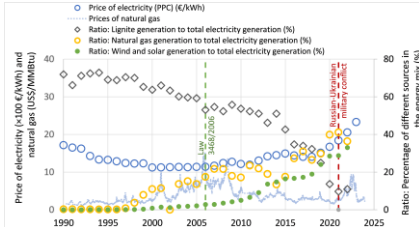
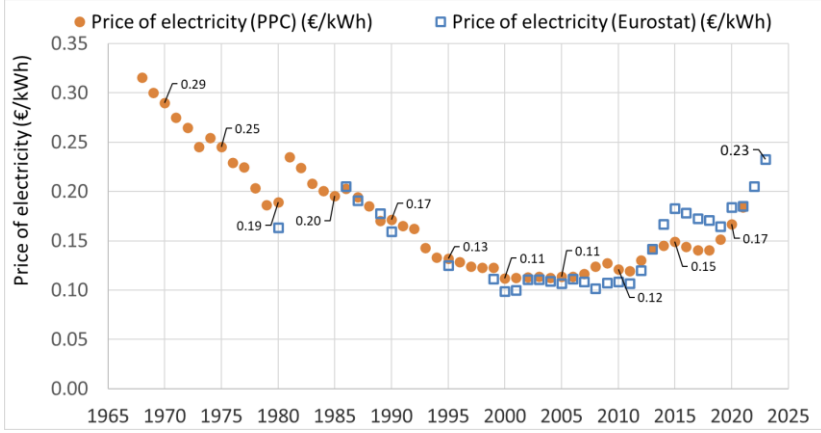
September 13-14, 2025 CHINA SHAOXING  
 2025年11月13日-14日

3rd International Seminar on Water Culture  
 第三届国际水文化高峰论坛

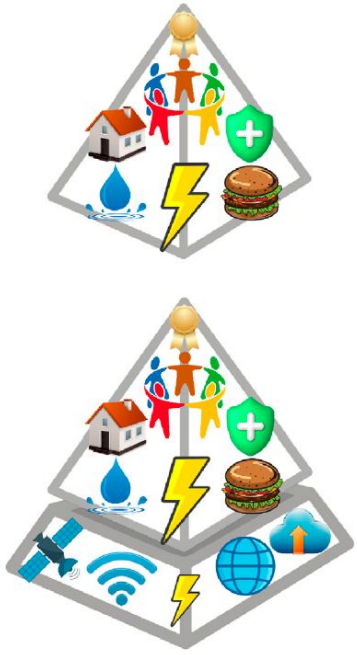
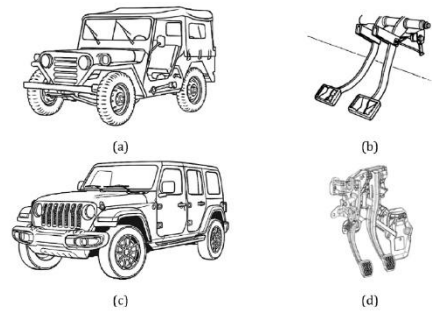
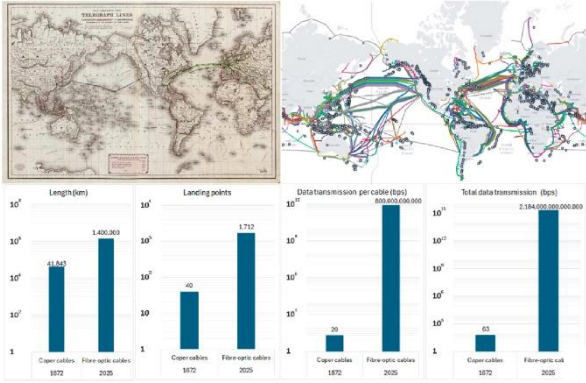


# Recent publications

Sargentis G.-F.; Ioannidis R.; Mamassis N.; Zoukos V.; Koutsoyiannis D. [A Review of the Energy Policy in Greece in the Last 50 Years and Its Implications for Prosperity](#). Clean Energy and Sustainability 2024, 2, 10021. <https://doi.org/10.70322/ces.2024.10021>



Sargentis G.-F. [Fragility in human progress. A perspective on governance, technology and societal resilience](#). Front. Complex Syst. 3:1609467. doi: 10.3389/fcpxs.2025.1609467



# Selected publications

## Issues of prosperity

- Sargentis, G.-F. Fragility in Human Progress. A Perspective on Governance, Technology and Societal Resilience Front. Complex Systems 2025. <https://doi.10.3389/fcpxs.2025.1609467>
- Sargentis G.-F. Entropy and War, Toy Models. Recent Prog Sci Eng 2025; 1(2): 007; doi:10.21926/rpse.2502007.
- Koutsyiannis, D.; Sargentis, G.-F. Trade-Off Between Entropy and Gini Index in Income Distribution. Entropy 2026, 28, 35. <https://doi.org/10.3390/e28010035>
- Sargentis, G.-F.; Koutsyiannis, D.; Angelakis, A.; Christy, J.; Tsonis, A.A. Environmental Determinism vs. Social Dynamics: Prehistorical and Historical Examples. World 2022, 3, 357-388. <https://doi.org/10.3390/world3020020>
- Sargentis, G.-F.; Defteraios, P.; Lagaros, N.D.; Mamassis, N. Values and Costs in History: A Case Study on Estimating the Cost of Hadrianic Aqueduct's Construction. World 2022, 3, 260-286. <https://doi.org/10.3390/world3020014>
- Sargentis, G.-F.; Iliopoulou, T.; Sigourou, S.; Dimitriadis, P.; Koutsyiannis, D. Evolution of Clustering Quantified by a Stochastic Method—Case Studies on Natural and Human Social Structures. Sustainability 2020, 12, 7972. <https://doi.org/10.3390/su12197972>

## Water-Energy-Food nexus

- Sargentis G.-F.; Ioannidis R. The impacts of altering biodiversity to the Water–Energy–Food nexus: case study North Euboea, Greece. Discover Water, Springer-Nature, 2024, 4, 105. <https://doi.org/10.1007/s43832-024-00165-y>
- Sargentis G.-F.; Mamassis N.; Kitsou O.; Koutsyiannis D. The role of technology in the water–energy–food nexus. A case study: Kerinthos, North Euboea, Greece. Front. Water 2024. 6:1343344. <https://doi.org/10.3389/frwa.2024.1343344>
- Sargentis, G.-F.; Koutsyiannis, D. The Function of Money in Water–Energy–Food and Land Nexus. Land 2023, 12, 669. <https://doi.org/10.3390/land12030669>
- Sargentis, G.F.; Lagaros, N.D.; Cascella, G.L.; Koutsyiannis, D. Threats in Water–Energy–Food–Land Nexus by the 2022 Military and Economic Conflict. Land 2022, 11, 1569. <https://doi.org/10.3390/land11091569>

## Art and aesthetics

- Sargentis, G.-F.; Papadodimas, N. Questioning Canvas Capital: Risks and Resilience in Art Markets. Cultural Arts Research and Development, 5(2), 167–184 2025. <https://doi.org/10.55121/card.v5i2.720>
- Sargentis, G.-F.; Dimitriadis, P.; Koutsyiannis, D. Aesthetical Issues of Leonardo Da Vinci's and Pablo Picasso's Paintings with Stochastic Evaluation. Heritage 2020, 3, 283-305. <https://doi.org/10.3390/heritage3020017>
- Sargentis, G.-F.; Dimitriadis, P.; Iliopoulou, T.; Koutsyiannis, D. A Stochastic View of Varying Styles in Art Paintings. Heritage 2021, 4, 333-348. <https://doi.org/10.3390/heritage4010021>
- Sargentis, G.-F.; Ioannidis R.; Chiotinis M.; Dimitriadis P.; Koutsyiannis D. Aesthetical Issues with Stochastic Evaluation. In: Belhi A., Bouras A., Al-Ali A.K., Sadka A.H. (eds) Data Analytics for Cultural Heritage. Springer, Cham 2021. [https://doi.org/10.1007/978-3-030-66777-1\\_8](https://doi.org/10.1007/978-3-030-66777-1_8)

# Presentations in youtube (in Greek)

- On Energy and Renewable Energy Sources <https://www.youtube.com/playlist?list=PLE8HdsuRBlotScKdFLasuzMFDhT27T7XA>
- The Water-Energy-Food Nexus [https://www.youtube.com/playlist?list=PLE8HdsuRBlos8qtVVf9LV\\_gwUVt-pPH\\_v](https://www.youtube.com/playlist?list=PLE8HdsuRBlos8qtVVf9LV_gwUVt-pPH_v)
  - On water [https://youtu.be/F9WZxEUgVQg?si=NR\\_SzuyPEBbXTiVq](https://youtu.be/F9WZxEUgVQg?si=NR_SzuyPEBbXTiVq)
  - On energy [https://youtu.be/DvJauWPnixY?si=6TaE5kEIAh64p\\_dn](https://youtu.be/DvJauWPnixY?si=6TaE5kEIAh64p_dn)
  - On food <https://youtu.be/4WgV6N7HAXo?si=MRU06--rr9m2lclp>
- On money <https://www.youtube.com/playlist?list=PLE8HdsuRBlott-ucA4Yf2uhw8slmcUyiY>
- Stochastics <https://www.youtube.com/playlist?list=PLE8HdsuRBlouG9CHePBb0w9ViDSSJzX4S>
- Entropy and social inequalities <https://www.youtube.com/playlist?list=PLE8HdsuRBlouOu4kh4phNaPCBEH-JOT8p>
- Laboratory on Humanitarian Studies <https://www.youtube.com/playlist?list=PLE8HdsuRBlou0k4OUT1cNmXvnarc2Ar-N>

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Member of:  
Technical Chamber of Greece (TEE-TCG)  
Chamber of Fine Arts of Greece

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Address: 9 Astrapogiannou str., PC 11526 Athens - Greece  
Website: [www.g-fivos.gr](http://www.g-fivos.gr)  
Blog: <http://g-fivos.blogspot.gr/>  
Email: [fivos@itia.ntua.gr](mailto:fivos@itia.ntua.gr), [fivos.sargentis@gmail.com](mailto:fivos.sargentis@gmail.com)

Tel: +30 697 3029012

<https://g-fivos.gr/>

