

Dimos N. PANTAZIS, Dr., MSc., Eng.

Prof. TEI of Athens

BRIEF CURRICULUM VITAE

Dimos N. PANTAZIS is a Professor at the Technological Educational Institution of Athens, Greece, Department of Surveying Engineering, Faculty of Technological Applications. He is the head of the Cartography and Spatial Databases Laboratory of the Department and also the founder and head of the Research Group SOCRATES (see below).

His research areas of interest include geographic information systems and spatial database design, organisation re-engineering, implementation methods of geographic information systems, metadata, CASE-tools and spatial analysis. He is the co-author of the book “Conception de SIG –Méthode et Formalisme, (1996) Eds. Hermès: Paris, and of many scientific papers in the fields of GIS and Geomatics.

Before his current post in Greece, D. N. PANTAZIS was a Senior Researcher and Associate Professor at the Laboratory SURFACES-Geomatics Unit of the University of Liege (ULg) in Belgium. He was also the Head of several GIS Projects for National, Regional and Local Governments in various countries (Switzerland, Luxembourg, Belgium, Cameroon, Senegal, China, Brazil, Greece, etc.).

D. N. PANTAZIS has also served for 2 years as a Research Engineer at the Belgian “Fonds National de Recherche Scientifique” (FNRS)” in the field of Geomatics.

Born in 1963, D. N. PANTAZIS has graduated from the Surveying and Rural Engineering Department of the Aristotelion University (AΠΘ), in Thessaloniki, Greece, and the Pedagogic Institution (Primary Education Teacher’s School) of Larissa, Greece. He also holds a M.Sc. in Environmental Protection and Water Resources Management from the Federal Polytechnic School of Lausanne (EPFL), Switzerland, a postgraduate diploma in Information Systems from the Institute of Higher Studies in Public Administration of Lausanne, Switzerland, and a Ph.D. in Geographic Sciences from the University of Liege, Belgium.

See at the following lines the DESCRIPTION OF THE Research Group SOCRATES.

S.O.C.R.A.T.E.S.

**RESEARCH GROUP
TEI OF ATHENS**



**Society for Organizations Cartography
Remote Sensing and Applications using Technology on Earth and Space**



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S.O.C.R.A.T.E.S.

Research Group of the Surveying Department of Athens TEI

The TEI (Higher Technological Educational Institution) of Athens is the third largest Educational Institution of Higher Education in Greece, with more than 35.000 students and 2.500 staff (academic, administrative, technical).

The Research Group activities' which operates in the field of Geoinformatics (Geographic Information Systems, Cartographic Databases, Remote Sensing, etc.), are threefold:

- **(1) Research / Research Projects / Consultancy**
- **(2) E-Learning**
- **(3) Life Long Education - Learning**

using state-of-the-art technologies and innovative methods.

The primary aim of the Research Group is:

- to participate in the diffusion and implementation of technologies, data and knowledge of Geoinformatics at the Private and Public sector

HISTORY – FOUNDATION

The Research Group of the Geoinformatics field **S.O.C.R.A.T.E.S.** (Society for **O**rganizations **C**artography **R**emote sensing and **A**pplications using **T**echnology on **E**arth and **S**pace) was founded by Dimos N. PANTAZIS, Professor of TEI of Athens, in early 2000, immediately after his return to Greece, coming from the Geography Department - Land Surveying Section of the University of Liege in Belgium (Pantazis was Assistant Professor / (Maître de Conférences) and Senior Researcher at FNRS - Belgium).

The actual establishment of the Group was initiated with the creation of an international consortium with the support of the Hellenic Geographic Military Service, in which members were the National Remote Sensing Center of China (People's Republic of China), the Space Imaging Europe Company, and the Surveying Department of TEI of Athens. The consortium successfully undertook, with parallel submission of proposals in both countries (Greece – China Bilateral research project), a two-year research project with the title: Research of the possibility for update of topographic maps 1:50.000 with high resolution satellite images. The research project belonged to the Joint Research and Technology Programs 2000 – 2002 of Greece – China and was funded by the European Union (EU) - (through the General secretariat of Research and Technology - Ministry of Development) - and the Space Imaging Europe Company.

The fruitful cooperation of all the participants of the research consortium lead to the successful undertaking of a second two-year research project with the title: Research of the possibility for accuracy improvement of topographic maps 1:50.000 and 1:25.000 with high resolution satellite images, within the same framework (Joint Research and Technology Programs 2002 - 2006) of Greece – China. These projects, combined with international co-operation schemes, with universities abroad and research centres, in the field of Geoinformatics, have showed the way, to further development of the research activities of the group.

Since then the research group **S.O.C.R.A.T.E.S.** has carried out a large number of research projects and has participated in many scientific / research co-operations with universities abroad, private sector companies, insitutions, etc.

SCIENTIFIC FIELD OF RESEARCH

The research group **S.O.C.R.A.T.E.S.** **focuses on** applied and fundamental research in all scientific and technological fields of Geoinformatics, such as:

- **Geographic and Cartographic databases**
(design, development, implementation, monitoring, metadata development, update),
- **CASE-tools** for Geographic databases, etc.,
- **Modelling / Re-modelling / Reverse Engineering** of procedures, databases and data flow of organisations,
- **Digital Cartography,**
- **Geographic Information Systems (G.I.S.)**
(Design, implementation in organisations, development of G.I.S. design methods, development of innovative G.I.S. applications in various sectors, etc.),
- **Development of innovative Remote Sensing applications** in sectors like:
environment, water resources management, land planning, defence, etc.

Moreover, the research group **S.O.C.R.A.T.E.S.**, develops educational material and new methods of teaching in particular scientific areas in the field of Geoinformatics, while sustaining and participating in academic exchanges between Greek and foreign universities for short-term seminars and lectures. The research group **S.O.C.R.A.T.E.S** organises sessions of **e-learning** and **life-long learning** in the field of **Geoinformatics**, for the **graduates of the Surveying Department of Athens TEI**, but also for others **actors interested from the Private and Public sector.**

MEMBERS – GROUP ORGANISATION The members of the group are distinguished between permanent and occasional. The permanent members participate in principle in all administrative and research activities of the group and in the diffusion of the results in Greece and abroad. The occasional members co-operate with the group in particular research projects within specific periods of time. The permanent members may be academics, technical staff of Higher Educational Institutions, Private and Public sector actors etc. Occasional members include also undergraduate and postgraduate students, etc.

SCIENTIFIC AND ECONOMIC MANAGEMENT OF RESEARCH PROJECTS AND STUDIES

All research projects, educational seminars and programs are carried out under the approval of the Research Committee of the Institution (TEI of Athens) and the signing of a contract according to relevant law and regulations concerned with research and educational contracts.

Any public (other Universities, Local Authorities, Ministries, various other actors...) and private body (companies, private institutions,...) may inquire from the research group **S.O.C.R.A.T.E.S:**

- participation in research projects
- participation in international research consortiums for submitting research proposals in the wider area of Geoinformatics,
- consultancy in education as mentioned above.