



## Preface and Acknowledgements

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### Welcome

Dear colleagues and friends welcome to the second edition of this Mediterranean Meeting completely devoted to this old but, up to now, not enough widely applied research field. As for previous edition the meetings will be held in an attractive place with millenniums of history and with an environmental attention.

Fortune in Mediterranean is easy to find a tourist place, in low season, in a pleasant but not luxury hotel with respect of environment and culture.

### Why

The world is multivariate! [1] In order to be significant, data coming from diagnostic work on Environment and Cultural Heritage as well, must be subject to a multivariate analysis. Multivariate analysis and chemometrics [2] are integrated approaches necessary [3] to the knowledge of the cultural item history, its constructive techniques, degradation, dating and origin (integrated approach to the knowledge).

Environmental data are intrinsically multivariate and, today, more and more parameters are measured to better describe the environment where we live.

The Meeting, of course, is devoted to theorists, researchers, professors, expertises, technicians, using multivariate approaches in order to improve the knowledge of the environment and of the cultural artifact.

Conference aims is to favour the meeting of researchers, experts, connoisseurs and competent on multivariate analysis applied to Environment (environmetrics [4]) and applied to Cultural Heritage (cultherimetrics [5]).

Not secondary objective of these meetings is to setup relationships among different countries to participate at international projects devoted to conservation, study, restoration in the two main fields object of the meeting.

### One statue in a square

A cultural find born in the environment as raw material, the last is subjected to degradation, deriving from the unavoidable interaction with the environment, handling by man to transfer a message and again alteration that, even if changes its initial face, at the same time tells its history and all those related to its contact with the environment and mankind; more, the analysis of the alteration products can guide to a correct conservation procedure.

Really, while all or some marks left by the past, depending on the mind line, could be maintained, new marks have to be avoided so, the present and future environmental conditions in which the artifact will be exposed must be carefully evaluated and eventually changed. Unfortunately the "Homo Sapiens" activity, directly by vandalic actions and indirectly through the environment pollution, negatively affects the conservation of Cultural Heritage artifacts.

### What lies behind the Chemometrics or Chemometry name?

All chemometricians reply in different ways to this query. My purpose is not to give a new definition but I want just to mention the "fathers" of this discipline. I copy, for my students, the index of two books and one web site, in reference you can see the three lists [6].

Another still open question is about the right name to be used: Chemometrics or Chemometry. In the present meeting edition I scramble randomly two names even if a statistical evaluation about their use is available on the web site of a component of Scientific Committee [7].

### The Island

Ventotene it is a very nice small island where during the last world war, in 1941, Altiero Spinelli, Ernesto Rossi, Eugenio Colorni, Luigi Einaudi, Ursula Hirschmann, Ferruccio Parri, Sandro Pertini et al. opposers of fascist regimen, guests of local jail, wrote the "Manifesto di Ventotene" in which born of European Union was postulated.

### Acknowledgements

First of all I would like to thank all the authors for their great patient in following the Meeting's Abstract Template as well as for the prompt replies to the Referee's questions.

This allowed us to obtain a very homogeneous "Abstract Book" and, we hope, of high scientific content. The abstract size was chosen in order to have a quite extensive description of the research useful for present and future readers.

A special tank is for Organising Committee, mainly young researchers, for their contribution aiming a successful result of the present meeting.

I also warmly thank the members of the Scientific Committee that spent some of their time, stealing it from the didactic and research activities, in the refereeing and selection of the presented contributions as well as for the engagement aiming to attain a full success of the Conference.

Last but not in importance I like to thank my wife, Maria Pia, without her suggestion, spur, brake and support neither the previous nor the present meeting (and life) would take place.

Finally I hope to meet all of you once again to the next Meeting that will be held in the beautiful Ischia island, located in the Naples gulf on 26-29 September 2010 (see the news at [w3.uniroma1.it/cma4ch](http://w3.uniroma1.it/cma4ch)).

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The coordinator  
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### References

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- 2) S. Wold, Spline-funktioner-ett nytt verktyg i dataanalysen, Kemisk Tidskrift, 3 (1972) 34-37
- 3) S.D. Brown, Has the chemometrics revolution ended? Some views on the past, present and future of chemometrics, Chemometr. Intell. Lab., 30(1) (1995) 49-58
- 4) The term 'environmetrics' was first introduced in 1971 by Philip Cox in a proposal. submitted to the US National Science Foundation, in S. Hunter, "Environmetrics: An Emerging Science" (1994)
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