Preface

The Geomathematical Section of the Hungarian Geological Society has been supporting the application of mathematics to the geosciences for decades. As part of this campaign an annual conference is held each year at Mórahalom, in 2011 for the 14th time. It was a big step that in the last few years it was co-organized with the Geomathematical Section of the Croatian Geological Society. The key topics were the following: theoretical geostatistics, geomathematics, reservoir and basin modeling, hydrogeologic modeling, geomathematics in environmental sciences, pedology and landscape ecology, 2D and 3D geoinformatics, engineering, and geophysical modeling and inversion. The chairmen of the conference were János Geiger (president of the Geomathematical Section of Hungarian Geological Society, University of Szeged), Tomislav Malvić (INA, Univeristy of Zagreb), and László Mucsi (University of Szeged).

One part of the presentations was published in the GeoLitera book entitled "New horizons in Central European geomathematics, geostatistics and geoinformatics", while the other part is being published in this edition of Central European Geology. However, neither can be considered to be a collection of conference papers, because these provide a much more detailed picture of the studies than an ordinary conference paper would. It should be stated that the studies published in this journal have gone through the same peer review process as all the other papers.

These papers deal with problems regarding spatial informatics, sedimentology, water chemistry and engineering geology.

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József Kovács