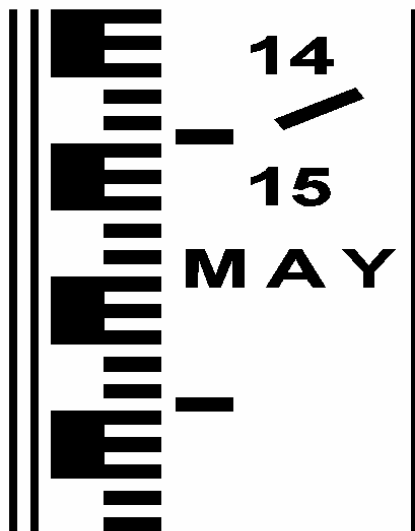


ROMANIA
THE MINISTRY OF EDUCATION, RESEARCH, YOUTH AND SPORT
"1 DECEMBRIE 1918" UNIVERSITY OF ALBA IULIA
DEPARTMENT OF TOPOGRAPHY

CONFERENCE PROCEEDINGS

GeoCAD 2010

INTERNATIONAL SCIENTIFIC SYMPOSIUM



**ALBA
IULIA**
GeoCAD
2010

May 14 - 15, 2010
Alba Iulia



ROMANIA
THE MINISTRY OF EDUCATION, RESEARCH, YOUTH AND SPORT
"1 DECEMBRIE 1918" UNIVERSITY OF ALBA IULIA
DEPARTMENT OF TOPOGRAPHY



FACULTY OF
GEOINFORMATICS
SZÉKESFEHÉRVÁR
HUNGARY



NATIONAL AGENCY FOR
CADASTRE AND LAND REGISTRY
AGENCY OF ALBA COUNTY



INTERNATIONAL
FEDERATION OF
SURVEYORS

SCIENTIFIC COMMITTEE

Prof.PhD.eng. **Moise Ioan Achim**
Prof.PhD. **Sorin Briciu**
Prof.PhD.eng. **Béla Márkus**
Prof.PhD.eng. **András Szepes**
Prof.PhD.eng. **Athanassios D. Styliadis**
Prof.PhD.eng. **Petros Patias**
Prof.PhD.eng. **Nikolaos D. Hasanagas**
Prof.PhD.eng. **Lazaros Sechidis**
Prof.PhD.eng. **Panos M. Pardalos**
Prof.PhD.eng. **Sergio Dequal**
PhD.eng. **Marco Piras**
Prof.PhD.eng. **Johann Neuner**
Prof.PhD.eng. **Dumitru Onose**
Prof.PhD.eng. **Nicolae Dima**
Prof.PhD.eng. **Constantin Moldoveanu**
Prof.PhD.eng. **Petre Iuliu Dragomir**
Prof.PhD.eng. **Nicolae Boş**
Prof.PhD.eng. **Gheorghe Nistor**
Prof.PhD.eng. **Mircea Ortelecan**
Prof.PhD.eng. **Maricel Palamariu**
Assoc.Prof.PhD.eng. **Carmen Grecea**
Assoc.Prof.PhD.eng. **Ioan Ienciu**

EDITORIAL COMMITTEE

Prof.PhD.eng.ec. **Maricel Palamariu**
Assoc.Prof.PhD.eng. **Nicolae Luduşan**
Assoc.Prof.PhD.eng. **Ioan Ienciu**
Assoc.Prof.PhD.eng. **Ildiko Tulbure**
Assoc.Prof.PhD.eng. **Levente Dimén**
PR.II.PhD. **Simona Varvara**
Lect.PhD.eng. **Dorin Popa**
Lect.PhD.stud.eng. **Éva Koncsag**
Assist.Lect.PhD.eng. **Luciana Oprea**
Assist.Lect.PhD.stud.eng. **Andreea Ungur**
Assist.Lect.PhD.stud.eng. **Alexandra Popa**
Assist.Lect.PhD.stud.eng. **Tudor Borşan**
Assist.Lect.PhD.stud.eng. **George Voicu**
Assist.Lect.PhD.stud.eng. **Flavius Bălăneanu**
Secretary **Emanuela Claudia Dragomir**

INTERNATIONAL SCIENTIFIC SYMPOSIUM

GeoCAD 2010

PROGRAM

FRIDAY, 14 may 2010

- 8³⁰ – 9³⁰ - Registration of participants
- 10⁰⁰ – 11⁰⁰ - Opening gala – A₉ Amphitheater
- 11⁰⁰ – 11³⁰ - Coffee break
- 11³⁰ – 13⁰⁰ - Plenary session – A₉ Amphitheater
- 13⁰⁰ – 14³⁰ - Lunch break; Location: University Restaurant
- 14³⁰ – 16⁰⁰ - Paperwork presentations on sections:
 - A₄ Amphitheater – Section – “Topography – Cadastre – GIS”
 - A₉ Amphitheater – Section – “Geodesy – GPS – Photogrammetry”
- 16⁰⁰ – 16³⁰ - Coffee break
 - Paperwork presentations on sections:
- 16³⁰ – 18³⁰
 - A₄ Amphitheater – Section – “Topography – Cadastre – GIS”
 - A₉ Amphitheater – Section – “Geodesy – GPS – Photogrammetry”
- 19⁰⁰ - Festive dinner; Location: University Restaurant

SATURDAY, 15 may 2010

- 8³⁰ – 9³⁰ - The meeting of the representatives of the delegations from the country and abroad with the University Management
- 9³⁰ – 11⁰⁰ - Paperwork presentations on sections:
 - A₄ Amphitheater – Section – “Topography – Cadastre – GIS”
 - A₉ Amphitheater – Section – “Geodesy – GPS – Photogrammetry”
- 11 – 12⁰⁰ - Visit the “Traseul celor 3 Fortificatii”
- 12⁰⁰ – 19³⁰ - Excursion “Wine Route”: Alba Iulia – Cetatea de Balta

Note: For more information, please ask the organizers

CONTENTS

ANDREI C. O., SALAZAR D., CHEN R.

PERFORMANCE ANALYSIS OF THE PRECISE POINT POSITIONING TECHNIQUE AT BUCU IGS STATION

BABA C., UNGUR A.

THE ROLE OF CADASTRE AND REAL ESTATE ADVERTISING COUNTY OFFICES IN THE LOCAL AND REGIONAL PLANNING PROCESS

BĂBUCĂ N. I.

NEW SOLUTIONS FOR THE GPS FIELD APPLICATIONS. COGO APPLICATIONS

BADEA A., MANEA R., POENARU V.

FLOOD DISASTER MONITORING USING RADAR AND OPTICAL SATELLITE DATA

BOFU C., BOFU S., ONU C.

MONITORING AND MANAGEMENT SYSTEM OF A BALASTIERE

BOȘ N., PALAMARIU M.

CONSIDERATII PRIVIND INTOCMIREA PLANULUI CADASTRAL DE BAZA AL UNITATILOR ADMINISTRATIV TERITORIALE (UAT)

BUDA A. S., KONCSAG É. M., SUBA N. S.

STONE QUARRY SCANNING TECHNIQUES USING DR TOTAL STATIONS

BUSE I., NACU V., ANGHELESCU A. I., STOIAN I., NICOLAE D.

MEASUREMENT METHODS REGARDING THE QUOTATIONS OF A PERMANENT GNSS STATION IN ALTITUDINAL SYSTEM MN 75

CHIȚEA GH., DERCZENI R., IORDACHE E., MIHĂILĂ M., VOROVENCII I.

POSSIBILITIES TO ESTABLISH THE STANDS VOLUME USING GIS AND SATELLITE RECORDINGS

CORDOS A. M.

CORRECTION OF LAND BOOK.END OF THE MAIN APPLICATION ENHANCEMENT REQUEST.MATERIAL COMPETENCE OF THE COURT

CORDOS A. M.

ENTRIES IN THE LAND.ACTION FOR BENEFIT TABULATED

DANA I., ZAVOIANU F.

3D EXPLOITATION OF SATELLITE IMAGES FOR DEM GENERATION

DAVID V., STURZA M.

THE INTEGRATION OF DIGITAL PHOTOGRAMMETRIC DATASETS IN GIS

DIDULESCU C.

THE 3D URBAN MODEL, A NEW TOOL IN SUPPORT OF URBAN PLANNING

DOSPINESCU R. D., ADAM G. C., MIHAI G. I.
GIS PROJECT CONSTANTA

DOSPINESCU R. D., ADAM G. C., CHIRIAC A.
DRAFTING THE TOPOGRAPHIC AND BATHYMETRIC STUDY FOR DESIGNING THE INVESTMENTS OBJECT LACUSTRIAN TOWN ON SIUTGHIOL LAKE, MAMAIA

DRAGOMIR P. I., RUS T., AVRAMIUC N., DUMITRU P.
EVRF2007 AS REALIZATION OF THE EUROPEAN VERTICAL REFERENCE SYSTEM (EVRS) IN ROMANIA

GRECEA C., BĂLĂ A. C.
SPATIAL PLANNING – MODERN TOOL OF URBAN MANAGEMENT AND CONTROL

GREȘIȚĂ I.
EXPERT SYSTEM USED IN MONITORING THE BEHAVIER OF HYDROTECHNICAL CONSTRUCTIONS

HASANAGAS N. D., STYLIADIS A. D., PAPADOPOULOU E. I., BIRTSAS P. K.
LAND POLICY & SOCIO-SPATIAL IMPACTS IN A BURNED FOREST: THE CASE OF CHALKIDIKI, GREECE (2006)

HERBAN I. S., MUȘAT C. C.
DETERMINATE DYNAMIC DEFORMATION OF CONSTRUCTIONS USING THE INTEGRATED SYSTEM – LEICA 1200

HERBEI M. V., HERBEI O., ULAR R.C.
PERFORMING A G.I.S. IN THE AREAS AFFECTED BY THE UNDERGROUND MINING EXPLOITATIONS

IENCIU I., OPREA L., POPA D., BORȘAN T.
THE VISIBILITY BETWEEN TWO GEODESIC POINTS - INFORMATICS INTERPRETATION

ILIOI D., ONU C., HOGAȘ H., SĂNDULACHE G.
THE DETERMINATION OF TROPOSPHERIC REFRACTION CORRECTIONS FOR GPS MEASUREMENTS

IORDACHE E., MIHĂILĂ M.
EVALUATION OF GPS PERFORMANCE IN ROMANIAN MOUNTAIN FORESTS

KELLER I. E., DOHOTAR V., NAȘ S., BĂDESCU G.
SOME ASPECTS OF MOBILE GIS

LEU I. N.
PRIMUL INGINER HOTARNIC ROMAN - GHEORGHE LAZAR

MIHĂILESCU I. A. M.
REAL ESTATE VALUATION MODELING WITH SIMPLE LINEAR REGRESSION

MODOG T., TEUȘDEA A. C.

CORRELATIONS OF DRĂGAN DAM HORIZONTAL DEFORMATIONS 1D AND 2D INTERPOLATED TIME SERIES

MOLDOVEANU C., OLTEANU V.

STATE OF THE ART IN TERRESTRIAL LASER SCANNING SYSTEMS AT NATIONAL AND INTERNATIONAL LEVEL

MUDURA R., MIHAI D., CAZANESCU S., VENEDICT B., SARBU N.

REHABILITATION OF HYDRO-TECHNICAL CONSTRUCTIONS DEVELOPED FOR IRRIGATION PERIMETERS BY THREE-DIMENSIONAL INVESTIGATION

MUNTEAN L., BUZILĂ L., MALOȘ C., ROȘIAN GH., STOIAN L., BACIU N., MIHĂIESCU R.

GIS APPLICATIONS FOR GEOMORPHOLOGICAL CONSTRAINTS ASSESSMENT WITHIN NEW RESIDENTIAL AREAS OF CLUJ-NAPOCA MUNICIPALITY

MUNTEAN M. D.

APLICAȚII FLI-MAP, TEHNOLOGIA DE EXECUȚIE, CARACTERISTICILE ȘI UTILITATEA ORTOFOTOPLANURILOR ÎN LUCRĂRILE DE CADASTRU

MUȘAT C. C., HERBAN I. S.

THE USE OF 3D LASER POINT TECHNOLOGIES FOR MONITORING HISTORICAL AND ARCHITECTURAL STRUCTURES

NAGY G., SZEPES A.

3D IN GIS

NAS S., KELLER I. E.

CONSIDERATIONS REGARDING THE USE OF INFORMATIC SYSTEMS FOR ESTABLISHING THE MAINTAINANCE STRATEGY OF URBAN ROADS NETWORK

NISTOR GH., NISTOR I.

CONTRIBUTIONS TO THE IMPROVEMENT OF THE MEASURING TECHNOLOGY AND PRECISION OF THE CYCLIC DETERMINATION OF THE VERTICAL DEFORMATION OF CONSTRUCTIONS USING HIGH PRECISION GEOMETRIC LEVELING MEASUREMENTS

ONU C.

CURRENT TRENDS ON MONITORING THE DEFORMATIONS OF STUDIED CONSTRUCTIONS

ONU C., NISTOR GH., SĂLCEANU GH.

GEODESY AND ALGORITHM METHOD FOR DETERMINING THE GEOMETRICAL AXES INCLINATION OF TALL BUILDINGS, WITH CIRCULAR SECTIONS

OPREA L., IENCIU I., DIMEN L., POPA D., VOICU G. E.

OPTIMIZING THE LEGAL CADASTRAL REGISTRATION OF LAND BOOKS AND CREATING THE SPECIFIC DATABASE

PAIS F. G.

THE DESCRIPTION OF THE MAIN TECHNIQUES OF RESOLVING THE PHASE AMBIGUITIES, THE ADVANTAGES, DISADVANTAGES AND THEIR CHARACTERISTICS

PALAMARIU M., AFRASINEI M., AFRASINEI D.

MEANS OF MONITORING THE BRIDGES BEHAVIOUR IN TIME

ROIB V. A.

ASPECTS REGARDING THE APPROACH TO EXPROPRIATED REAL ESTATE VALUATION

ȘTEFAN O., BĂDESCU G.L, SOPONAR M.

CONSTITUIREA REȚELEI DE SPRIJIN ÎN VEDEREA REALIZĂRII CADASTRULUI IMOBILIAR - EDILITAR ȘI CONSTITUIREA BĂNCII DE DATE URBANE ÎN MUNICIPIUL BAIA MARE, JUDEȚUL MARAMUREȘ

ȘTEFAN O., BĂDESCU G., SOPONAR M.

ACHIEVEMENT IN THE MINING CADASTRE CN REMIN SA - NEED, STAGES AND CONTENT

STOIAN I., NACU V.

ZONING OF AREAS AND POPULATED CENTERS FOR REDUCING THE EFFECTS OF NATURAL DISASTERS

STURZA M., DAVID V.

CARTOGRAPHY – A NECESSITY OF OUR DAYS

SUBA S., NISTOR S., JOCEA A. F.

THE ANALYZE OF THE TRANSMISSION POSSIBILITIES OF DIFFERENTIAL DATA CORRECTIONS IN THE GIVEN RADIO INFRASTRUCTURE CONTEXT

TEREȘNEU C. C.

USING GEOGRAPHICAL INFORMATION SYSTEMS FACILITIES IN ORDER TO MANAGE TORRENTIAL HYDROGRAPHIC BASINS

VASILCA D., ILIES A.

STEREOGRAPHIC PROJECTIONS FOR ROMANIA

VOROVENCII I., CHITEA GH., IORDACHE E., MIHAILA M.

DEM GENERATION FROM ASTER SATELLITE DATA

OFFICIAL SPONSORS

SC CERNA COMSERVICE SRL HUNEDOARA

SC D&M TOPOGRAFIE SRL CLUJ NAPOCA

SC GEO CART SRL BUCURESTI

SC GIS TOPOCAD SRL ALBA IULIA

SC INTERGRAPH ROMANIA

SC SILVOCAD SRL PIATRA NEAMT

SC SYSCAD SRL BUCURESTI

SC TERATOPO SRL CLUJ NAPOCA

SC TOP PROIECT SRL MEDIAS

SC TOPO CENTER SRL ALBA IULIA

SC TOPO SURVEY SRL CRAIOVA

SC 5 ARTIMEX SRL GIURGIU

SC α GEOCART SRL CLUJ NAPOCA

OCOLUL SILVIC TINUTUL PADURENILOR HUNEDOARA

IONICA TRAIAN MIHAIL, SIBIU

PF CRISAN VOICHITA, AIUD

PF FLESER VASILE, AIUD

PF SCURTU MARIA, BAIA DE ARIES

PFA ALEXOI ION, SIGHISOARA

PFA HARANGUS CRISTIAN, CLUJ NAPOCA

Note: The final list of the sponsors that supported the Scientific Conference
will be published in RevCAD 2010