

MONDAY, JULY 4, 2011 10:30-12:00**Opening Ceremony Blue Room**

OPENING SPEECHES

H. RICHARD, CFC PRESIDENT
W. CARTWRIGHT, ICA PRESIDENT

OPENING TALK

REPRESENTATIVE OF THE FRENCH MINISTRY OF SUSTAINABLE DEVELOPMENT

MAPS: TEACHING TOOLS, CITIZEN TOOLS, POLITICAL TOOLS

J.-C. VICTOR

CONFERENCE PRESENTATION

A. RUAS, PRESIDENT OF THE LOCAL ORGANIZING COMMITTEE

MONDAY, JULY 4, 2011 13:30-15:00**A3-Education and training**

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THE METHODOLOGICAL ADVANTAGES OF USING WEBSERVER IN TEACHING GIS

A. PODOR

CARTOGRAPHICAL GAMES - THE NEW FORM OF KNOWLEDGE ACQUISITION

A. MEDVEDEV, N. ALEKSEENKO

ARPEGE: A GRAPHIC TOOL FOR EXPLORATORY AND VISUAL DATA MINING AND SPATIAL ANALYSIS TEACHING

D. JOSSELIN

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USER TESTING WITH TOOLS FOR 3D VISUAL NAVIGATION

M. SCHMIDT, L.S. DELAZARI

CAN EXPERTS INTERPRET A MAP'S CONTENT MORE EFFICIENTLY?

K. OOMS, P. DE MAEYER *et al*

SELECTED ISSUES OF GEODATA UNCERTAINTY VISUALIZATION EFFICIENCY

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Chair: L. ZENTAI

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MAP ANIMATIONS FOR VISUALIZING ORIENTEERING COMPETITIONS

T. MIDTBØ, S.J. HAVERSTAD

SOME EXPERIENCES IN MAKING ORIENTEERING MAPS IN SLOVENIA FROM AIRBORNE LASER SCANNING DATA

D. PETROVIC

CASED-BASED REASONING FOR INTELLIGENT THEMATIC CARTOGRAPHY SYSTEM

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A3-Mountain cartography

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L. HURNI, S. ROMER

RECONSTRUCTIONS OF MOUNTAIN GLACIERS IN LAST HOLOCENE (KASHKATASH, ULLUKAMAS EXAMPLES)

I. BUSHUEVA

3D SURVEYING AND VISUALIZATION OF THE BIGGEST ICE CAVE ON EARTH

M. BUCHROITHNER, J. MILIUS *et al*

CARTOGRAPHY OF MOUNTAIN ROCKY AREAS, A STATISTICAL MODELLING AND DRAWING OF ELEMENT ARRANGEMENTS

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Chair: S. FABRIKANT

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R. ALMEIDA

JACQUES BERTIN AND THE GEOGRAPHERS: VIEW POINT OF A FRENCH CARTOGRAPHER AND GEOGRAPHER

J.P. BORD

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T. BANDROVA, Y. MILANOVA

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L. RUDENKO

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K. ISHIDA

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T. FERNÁNDEZ, M. UREÑA *et al*

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A. PEREIRA, M.D.L. GALO *et al*

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J. LI, G. KUANG *et al*

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- AUTOMATIC DIVISION OF CENSUS DISTRICT BASED ON CONSTRAINT DELAUNAY TRIANGULATION
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- IS PANORAMIC PRACTICAL? EVALUATING A SCHEMATIC APPROACH TO MAPPING SKI RESORT TRAILS
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- ROCK DRAWING FOR TOPOGRAPHIC MAPS
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- MAPPING THE MENTAL REPRESENTATIONS OF INDUSTRIAL RISK. APPLICATION TO POPULATION LIVING ALONG THE SEINE ESTUARY
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- DESERTIFICATION IN SOUDANO-SAHELIAN AREA (DOGON IN MALI) ? CONTRIBUTION OF MAPS AND DIACHRONIC ANALYSIS OF AGROFORESTAL PARCS WITH REMOTE SENSING TECHNIQUES FROM SPATIAL AND AERIAL PHOTOS
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- BILHARZIAN RISK MAPPING USING REMOTE SENSING AND GEOGRAPHIC INFORMATION SYSTEM
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- SQUARING THE CIRCLE: BIVARIATE COLOR MAPS AND JACQUES BERTIN'S CONCEPT OF 'DISASSOCIATION'
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- THIRTY YEARS OF SEMIOLOGY OF GRAPHICS AT THE SERVICE OF DEVELOPMENT IN INDIA
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- MAP DESIGN VS. SEMIOLOGIE GRAPHIQUE. REFLECTIONS ON TWO CURRENTS OF CARTOGRAPHIC THEORY
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- PLACE NAMES ONTOLOGIES
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- TOWARDS GOOD PRINCIPLES FOR THE DESIGN OF A NATIONAL ADDRESSING SCHEME
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- CREATION OF METADATA IN THE CHILEAN AERONAUTICS CARTOGRAPHY PRODUCTION
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CONTEMPORARY AND COLLABORATIVE WEB CONCEPTS AS PART OF A GEO-KNOWLEDGE TOOL TO ASSIST PARK MANAGEMENT

M. ELSLEY, W. CARTWRIGHT

USER GENERATED CARTOGRAPHY BY CROWD SOURCING WEB MAP STYLING

*M. AUER***B4-SDI, data access and user issues** Chair: K. OOMSroom
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DEFINITION OF AN ALARM SYSTEM TO ASSESS THE OBSOLESCENCE OF AFRICAN SPATIAL DATA INFRASTRUCTURES

T. ROUSSELIN, N. SAPORITI et al

A CONCEPTUAL FRAMEWORK FOR CREATING CARTOGRAPHIC REPRESENTATIONS IN SDI ENVIRONMENT

A. HOPFSTOCK, M.F. BUCHROITHNER

ADAPTING THE LOCATION OF RESSOURCES TO THEIR USE

C. PIERKOT, J.C. DESCONNETS et al

THE ADDING VALUE OF THE NOTION OF INTERMEDIATE OBJECT TO DESCRIBE THE USE OF 3D GEOVISUALIZATION. AN EXAMPLE RELATED TO THE PREVENTION OF FLOOD RISK

*F. JACQUINOD, T. JOLIVEAU***B4-Planets and space cartography** Chair: H. HARGITALroom
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B

VENUS MAPPING AT SMALL SCALE: SOURCE DATA PROCESSING AND CARTOGRAPHIC INTERPRETATION

E. LAZAREV, J. RODIONOVA

IO MAP FINAL VERSION

I. GOLODNIKOVA, B. KRASNOPEVTSEVA et al

CARTOGRAPHIC SUPPORT OF A NEW LANDING SITE FOR «PHOBOS-GRUNT» MISSION

*I. GOLODNIKOVA, B. KRASNOPEVTSEVA et al***B4-Modelling and analysing access and displacements** Chair: M.J. KRAAKroom
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ACCESSIBILITY TO ESSENTIAL SERVICES AND FACILITIES BY A SPATIALLY DISPERSED AGING POPULATION IN SUBURBAN MELBOURNE, AUSTRALIA

G.J. LIU, B. ENGELS

THE WAY OF SAINT JAMES IN GALICIA : TECHNICAL AND HISTORICAL CHARACTERISATION BY MEANS OF GEOSPATIAL INDICATORS

FA. VARELA GARCIA, G. MARTINEZ CRESPO et al

A STRUCTURAL ANALYSIS OF THE STREETS NETWORK TO URBAN FABRIC CHARACTERIZATION

R. HAMAINA, T. LEDUC et al

GEOPROCESSING IN DIAGNOSTIC AND PROGNOSTIC OF AREAS OF SPECIAL INTEREST IN THE AREA OF INFLUENCE TRANSMISSION LINES OF CEMIG - A CASE STUDY OF METROPOLITAN AREA IN BELO HORIZONTE - MG - BRASIL

*A. MOURAO, S. SANTANA et al***B4-Graphical semiology, mental map** Chair: S. FABRIKANTroom
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FROM MIND MAPS TO SONIC MIND MAPS: TOWARDS A SENSITIVE CARTOGRAPHY OF URBAN SONIC ENVIRONMENT

S. MARRY

THE PERSONAL MENTAL MAP IS EGOCENTRIC, MULTIFOCAL, HIERARCHIC, DYNAMIC AND INTERACTIVE. FROM A FIELD STUDY TO A LONG JOURNEY AROUND THE MENTAL MAP

J. SZEGÓ

STEP BY STEP: MARKING THE WAY

L. VAUGHAN

REPRESENTATIONS OF THE ISRAELI-PALESTINIAN CONFLICT IN FRANCE BY COGNITIVE MAPPING

*C. YVROUX, J.P. BORD***B4-Maps, GIS, security and planning** Chair: C. PERKINSroom
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GEOGRAPHIC INFORMATION SYSTEM FOR 3D MODELLING OF THE SPECIFIC AIRPORT PROTECTION ZONE PLAN AND URBAN PLANNING

A. IESCHECK, A. OLIVEIRA

MAPPING ELECTRICITY USE IN A NATIONALLY REGISTERED HISTORIC DISTRICT: THE SPANISH TOWN NEIGHBORHOOD IN THE CITY OF BATON ROUGE, LA

M. LEITNER

VISUALIZATION OF CRIME TRAJECTORIES WITH SELF-ORGANIZING MAPS: A CASE STUDY ON EVALUATING THE IMPACT OF HURRICANES ON SPATIO-TEMPORAL CRIME HOTSPOTS

J. HAGENAUER, M. HELBICH et al

ARTHUR ROBINSON AND THE CREATION OF AMERICA'S FIRST SPY AGENCY

*J. CRAMPTON***B4-Maps, GIS & hazards and disasters** Chair: P. DAYOINEroom
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HOW TO MAP OUT THE ROUTES OF WALKERS IN A FORESTRY ENVIRONMENT CONSIDERED TO BE OF RISK? THE CASE OF HUMAN EXPOSURE TO LYME BORRELIOSIS IN THE FOREST OF SENART (ILE-DE-FRANCE, FRANCE).

V. GODARD, C. MEHA et al

CROSS-BORDER MAPS AND DISASTER MANAGEMENT

S. MARINOVA

INTERACTIVE FUNCTIONALITY OF CARTOGRAPHIC INFORMATION SYSTEMS FOR NATURAL HAZARDS DATA

M. KUNZ, L. HURNI

RESEARCH ON CARTOGRAPHIC SOLUTIONS FOR EARLY WARNING AND CRISIS MANAGEMENT USED BY EMERGENCY SERVICES IN CROATIA

*A. KUVEZDIC DIVJAK, M. LAPAINE***B4-Standards, SDI and data quality** Chair: Z. LIroom
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QUALITY OF GEOGRAPHIC INFORMATION - SIMPLE CONCEPT MADE COMPLEX BY THE CONTEXT

K. TÓTH, R. TOMAS

A COHESIVE APPROACH TOWARDS QUALITY ASSESSMENT OF SPATIAL DATA

A. JAKOBSSON, M. BEAR et al

THE QUALIFICATION OF GEOGRAPHICAL INFORMATION FOR THE FRENCH DEFENSE NEEDS

P. FAVE

A CONSISTENCY MAINTENANCE OF SHARED BOUNDARY AFTER POLYGON GENERALIZATION

T. AI, W. ZHANG

CI-Analysis and visualisation of data over time

Chair: G. ANDRIENKO

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- PROCEDURAL METHOD OF DESIGNING LEGENDS FOR ANIMATED CHOROPLETH MAPS AND CARTODIAGRAMS
D. DUKACZEWSKI
- SPACE AND TIME MAPPING OF HISTORICAL FACTS
J.F. GIGAND
- GEOVISUALIZATION AND ARCHAEOLOGY: SUPPORTING EXCAVATION SITE RESEARCH
S. TSIPIDIS, A. KOUSSOULAKOU *et al*
- VISUAL EXPLORATION OF LARGE ANIMAL TRAJECTORIES
E. BUARD, M. BRASEBIN

CI-Maps, GIS, health

Chair: S. ROCHE

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A**

- THEMATIC MAPPING OF HEALTH
K. CEDERIN
- VISUALIZING HEALTH CARE ACCESSIBILITY: AN ONLINE ATLAS OF MEDICAL SERVICES IN MICHIGAN, USA
K. GOLDSBERRY, K. SOCIA
- A MODULE IN THE ENVIRONMENT OF A SPATIAL DECISION SUPPORT SYSTEM FOR THE ASSESSMENT OF THE SOCIAL SERVICE COMING FROM A PUBLIC GOOD
D. VOUTSA

CI-Mapping from satellite imagery

Chair: A.M. OLTEANU

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B**

- GEOLOCATION ACCURACY EVALUATION OF GEOEYE-1 ORTOIMAGES
R. BARROS, S. BARBOSA *et al*
- HIGH SPATIAL RESOLUTION IMAGES - A NEW WAY TO BRAZILIAN'S CARTOGRAPHIC MAPPING
E. BIAS, G. BAPTISTA *et al*
- MAPS FROM THE PLEIADES SATELLITES IMAGES
J.P. CANTOU
- INNOVATIVE SOLUTIONS FOR MAPPING NORTHERN CANADA
D. CLAVET, Y. ROBITAILLE *et al*

CI-DTM, terrain analysis

Chair: E. GUILBERT

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- DEM BASED RESEARCH ON TIME SERIES OF SLOPE SPECTRUM - A CASE STUDY WITH SIMULATED LOESS WATERSHED
F. LI, G. TANG *et al*
- DEM BASED TERRAIN FACTOR OF SOIL EROSION AT REGIONAL SCALE AND SOIL EROSION MAPPING
F. LI, G. TANG
- AN INFLUENCE OF SPATIAL RANGE OF INPUT DATA SET ON TERRAIN RELIEF FORM CLASSIFICATION HOMOGENEITY FOR GLACIAL AREA
M. WIECZOREK
- ANNUAL MEAN AIR TEMPERATURE AND PRECIPITATION LAYERS FOR THE CZECH REPUBLIC CREATED IN GIS AND VISUALIZED DYNAMICALLY ON THE WEB
A. MULLER

CI-NMA day - standards, SDI, INSPIRE

Chair: D. CLARKE/T. TRAINOR

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- OPENING SESSION
D. CLARKE, T. TRAINOR
- KEYNOTE THE CRITICAL ROLE OF OPEN STANDARDS IN SDI'S AND INSPIRE
A. TRAKAS
- DEFINITION OF GUIDELINES FOR THE IMPLEMENTATION OF UNIQUE IDENTIFIERS AND LIFE-CYCLE INFORMATION IN PAN-EUROPEAN DATASETS
N. GRÉMEAUX
- OPEN DISCUSSION: IN WHAT WAYS CAN STANDARDS/SDI/INSPIRE CONTRIBUTE TO IMPROVING THE SERVICES RENDERED BY NMAs

CI-Cognition, mental map

Chair: D. FAIRBAIRN

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A**

- COGNITIVE CARTOGRAPHY AND GEOGRAPHIC INFORMATION SPATIALIZATION
L.S. ISSMAEL, P.M. LEAL DE MENEZES
- CARTOGRAPHIC RESEARCH OF MENTAL MAPS AT CHARLES UNIVERSITY IN PRAGUE
J.D. BLAHA, J. HATLE *et al*
- HOW CAN THEORETICAL CARTOGRAPHY CONTRIBUTE TO GISCIENCE: A PHILOSOPHY PERSPECTIVE
Q. DU
- COGNITIVE MAPS IN THE GENERATION OF SPATIAL DATABASES
A.C. CORREIA, L. SA

CI-3D Modelling, city models

Chair: M. SESTER

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B**

- HOW MANY 3D CITY MODELS ARE THERE? - A TYPOLOGIC TRY
M. JAHNKE, J.M. KRISP *et al*
- THREE-DIMENSIONAL CARTOGRAPHIC REPRESENTATION AND VISUALIZATION FOR SOCIAL NETWORK SPATIAL ANALYSIS
C.R. SLUTER, A.L. IESCHECK *et al*
- VISUALIZATION OF 3D CITY MODEL THROUGH INTERNET USING X3DOM
B. MAO, Y. BAN
- REALISTIC ROAD MODELLING FOR DRIVING SIMULATORS USING GIS DATA
G. DESPINE, C. BAILLARD

CI-Culture and map design

Chair: B. PIATTI

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- CARTOGRAPHIC STYLES: CRITERIA AND PARAMETERS
G. BECONYTE
- BREAKING THE ICE: DESIGNING A PROTOTYPE FOR MULTILINGUAL ARCTIC TOPOGRAPHIC MAPS
K. FRANCIS, P. WILLIAMS
- REPRESENTATION, DIAGRAMS AND VISUALIZATION OF SPACE AND PLACE
W. CARTWRIGHT
- GEOGRAPHICAL COUNTERPOINT OF SPATIO-TEMPORAL DATA, THE DANCE
H. BAN

C2-Exploration of movement and trajectories

Chair: J. DYKES

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DYNAMIC TIME TRANSFORMATIONS FOR VISUALIZING MULTIPLE TRAJECTORIES IN INTERACTIVE SPACE-TIME CUBE
G. ANDRIENKO, N. ANDRIENKO

A CONCEPTUAL FRAMEWORK TO REPRESENT MOVEMENT PATTERNS THROUGH VISUALIZATIONS OF NETWORK-CONSTRAINED MOVEMENTS

Q. ZHANG, M.J. KRAAK *et al*

ANIMATED MAPS TO REPRESENT PEOPLE TRAJECTORIES: SEMIOTICS PROPOSALS AND APPLICATION ON GOOGLE EARTH

L. RAVENEL, A. COUILLET *et al*

HOW TO GRASP THE GEOGRAPHIC MOVEMENT? A HEURISTIC GUIDE FOR ITS CARTOGRAPHIC REPRESENTATION
O. KLEIN, C. CAUVIN

C2-Maps, GIS and society

Chair: R. ALMEIDA

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GEOINFORMATION: A SOCIAL ISSUE

A.C. DI MAIO, C. GOMES *et al*

PASSING GIS KNOWHOW FROM UNIVERSITY STUDENTS TO SECONDARY SCHOOL STUDENTS: PEDAGOGICAL APPROACH IN DEVELOPING YOUNGSTER'S CAPABILITIES AND UNDERSTANDING IN GIS

A. IAALY, R. JADAYEL *et al*

INTERNATIONAL MAP YEAR

B. RYSTEDT, F. ORMELING

SIATL: WEB-BASED HYDROGRAPHIC NETWORK MODELLING

R. CARRASCO, C. ESCANDON

C2-Mapping from satellite imagery

Chair: X. YANG

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B

3D TOPOGRAPHIC MAPPING USING TERRASAR-X ELEVATION

F. TEUFEL, E. FAHRLAND *et al*

THE CONTRIBUTION OF FREE SATELLITE IMAGES CBERS-2B TO DATABASE BUILDING AND UPDATE

J.C. HOLANDA ARRUDA

TOPOGRAPHICAL MAPPING AT 1:50.000 SCALE FROM SATELLITE IMAGERY USING CARTOSAT-1

E.H. TAKKA

ACTIVE REMOTE SENSING FOR ARCHAEOLOGY

F. KURTCEBE, C. IPBUKER

C2-Spatial analysis and decision making

Chair: R. WEIBEL

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CARTOGRAPHIC TRANSFORMATIONS FOR INFORMED DECISIONS

N. CHRISMAN

SPATIAL DATA QUALITY AND DECISION MAKING PROCESS

V. TALHOFFER, A. HOFMANN *et al*

CREATING A GIS APPLICATION FOR RETAIL PLANNING IN SAUDI ARABIA

A. MURAD

FACILITY SITTING USING GIS AND GENETIC ALGORITHMS

F. MEHDIPOUR, M.S. MESGARI *et al***C2-NMA day - geographic information for developing**

Chair: D. CLARKE/T. TRAINOR

room
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NSDI - CHALLENGES AND OPPORTUNITIES FOR MAPPING AGENCIES

C. DEKEYNE, IGN FRANCE INTERNATIONAL

MAPS IN ALGERIA: CURRENT STATE AND PERSPECTIVES

K. AREZKI

MAKING A TECHNICAL GIS PLATFORM IN HAITI: DEFINING THE DATA BASE OF REFERENCE

J.M. PHILIUS

OPEN DISCUSSION: THE PLACE OF NMA IN DEVELOPPING COUNTRIES - DIFFICULTIES AND CHALLENGES

C2-Mapping network and route

Chair: J. KOSTELNICK

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A

PAPER MAPS OR GPS? EXPLORING DIFFERENCES IN WAY FINDING BEHAVIOUR AND SPATIAL KNOWLEDGE ACQUISITION

K. FIELD, J. O'BRIEN *et al*

SKETCH MAP ANALYSIS TO STUDY DRIVER'S NEEDS OF URBAN ELEMENTS FOR SELECTION OF ROUTE GUIDANCE INFORMATION

Y. CORREA DOS REIS, M. M.S. DECANINI *et al*

SPATIAL REPRESENTATION IN NETWORKS: A CARTOGRAPHIC PERSPECTIVE

J.T. BJØRKE, S. NILSEN

THE EFFECT OF GENDER AND SPATIAL ABILITIES ON MAP USE PREFERENCES AND PERFORMANCE IN ROAD SELECTION TASKS

J. WILKENING, S.I. FABRIKANT

C2-Change analysis, modelling and simulation

Chair: B. JIANG

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DYNAMIC MAPPING OF THE CASPIAN SEA COAST FOR DIFFERENT TIME SCALES

I. KURBATOVA, D. GORBACHEV

CONCEPTUAL SPATIO-TEMPORAL DATA MODELLING AND LAND USE CHANGE

L.A. BESER, DE DEUS

CONCEPTION OF A GIS-PLATFORM TO STUDY AND SIMULATE URBAN DENSIFICATION BASED ON THE ANALYSIS OF TOPOGRAPHIC DATA

A. RUAS, J. PERRET *et al*

URBAN GROWTH MODELLING WITH ROAD NETWORK EXPANSION AND LAND USE DEVELOPMENT

Y. RUI, Y. BAN

C2-Map in narratives and for narratives analysis

Chair: C. PERKINS

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A LITERARY ATLAS OF EUROPE - ANALYSING THE GEOGRAPHY OF FICTION WITH AN INTERACTIVE MAPPING AND VISUALISATION SYSTEM

B. PIATTI, A.K. REUSCHIEL *et al*

MAKING MORE SPACE FOR ART - A PILOT STUDY

S. FUHRMANN

A MAP IN A MOVIE - THE ROLE AND THE USAGE

L. FRIEDMANNOVA, K. STANEK

MAPPING NARRATIVES: A CYBERCARTOGRAPHIC APPLICATION

S. CAQUARD

13:30-15:00

C3-Geovisualisation and data exploration

Chair: G. ANDRIENKO

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CHARTING THE ICA WORLD OF CARTOGRAPHY 1999-2009

S.I. FABRIKANT, M. SALVINI

VISUALIZING LARGE SETS OF SOCIO-ECONOMIC FLOW DATA

S. SPECHT, C. HANEWINKEL

MAPLE - A WEB MAP SERVICE FOR VERBAL VISUALISATION USING TAG CLOUDS GENERATED FROM MAP FEATURE FREQUENCIES

S. HAHMANN, D. BURGHARDT

GEO-TWITTER ANALYTICS: APPLICATIONS IN CRISIS MANAGEMENT

*A. MACEACHREN, A.C. ROBINSON et al***C3-Research agenda, children, education**

Chair: T. BANDROVA

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THE ICA RESEARCH AGENDA: REVIEW AND COMMENTS*H. MOELLERING*

UPDATING RESEARCH ON CHERNOFF FACES FOR SCHOOL CARTOGRAPHY

J.J. REYES NUNEZ, A. ROHONCZI et al

A STUDY ABOUT THE CARTOGRAPHIC LANGUAGE AND THE REPRESENTATION OF SPACE IN THE CHILD EDUCATION

P.C. STRINA JULIASZ, R. DOIN DE ALMEIDA

FROM SPACE OF ACTION TO SUBJECTIVE MAPS: THE USE OF GIS TO UNDERSTAND AND ANALYSE THE CHILDREN SPACE REPRESENTATION

*S. DEPEAU, E. QUESSEVEUR***C3-Mapping from satellite imagery**

Chair: A.M. OLTEANU

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OPTIMAL VISUALIZATION OF SATELLITE IMAGERY AND SUPERIMPOSED VECTOR DATA: A NEW TREND TO THE CONCEPTUAL VISUALIZATION OF LAND-USE MAPS

M. NIROUMAND-JADIDI, H. HELALI et al

APPLICATION OF GIS & RS IN SURVEY AND MAPPING OF JFM AREAS IN ORISSA FORESTRY SECTOR DEVELOPMENT PROJECT

R. MALLICK

MAPPING BIODIVERSITY AT THE LANDSCAPE LEVEL - TOWARDS A LANDSCAPE LOGIC

S. JONES, E. FARMER et al

EXTRACTION OF SEAGRASS BOUNDARIES FROM EO-1 HYPERION HYPERSPECTRAL IMAGERY

*H. ZHU, R. LI et al***C3-Tools and infrastructures for spatial analysis**

Chair: J. GENSEL

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GEOSPATIAL REASONING IN A NATURAL LANGUAGE PROCESSING (NLP) ENVIRONMENT

B. BITTERS

TOWARDS CONTEXT-AWARENESS MOBILE GEOSPATIAL BI (GEOBI) APPLICATIONS

B.A.A. DIALLO, T. BADARD et al

THE DEVELOPMENT OF INTELLIGENT 3D GIS APPLICATIONS IN URBAN SPACE

G.J. LIU, D.YU

SIGNA: TAKING ADVANTAGE OF GIS & SDI POSSIBILITIES IN AN INTEGRATED ENVIRONMENT

*C. SEVILLA-SANCHEZ, H. POTTI-MANJAVACAS***C3-Representations of space over time**

Chair: S. CAQUARD

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A

MAP COLLECTING PRACTICES

C. PERKINS

AESTHETIC ASPECTS OF EARLY MAPS - INSPIRATION FROM NOTES BY UNIV. PROF. KAREL KUCHAR

J.D. BLAHA

GREETINGS FROM THE EDGE: CARTOGRAPHIC CULTURAL EXPRESSION

D. PRESTON

MAPPING AN ENCHANTED SOLITUDE: CARTOGRAPHIC REPRESENTATIONS OF YELLOWSTONE NATIONAL PARK, U.S.A.

*Y. YOUNGS***C3-Animated maps: data modelling and semiotics**

Chair: Q. DU

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B

AN EXPERIMENTAL APPROACH FOR STUDYING THE PERCEPTION AND MEMORISATION OF ANIMATED MAPS OF RISK EVENTS

E. CHESNEAU, A. VALORGE et al

EFFECTIVE COLOR SCHEMES FOR 3D ANIMATIONS OF URBAN LANDSCAPES WITH A SPATIAL AND TEMPORAL DIMENSION

J. SMITH

A FIRST STEP TOWARDS A PROPOSAL FOR A SEMIOLOGY OF ANIMATED GRAPHICS: AN EXPERIMENTAL TOOL

C. CUNTY, A. RIBARDIERE et al

EFFECTIVENESS OF VISUAL, SCREEN AND DYNAMIC VARIABLES IN ANIMATED MAPPING

*J. WANG, Z. LI***C3-Digital technologies and cartographic heritage**

Chair: G. BITELLI

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PRESERVATION IN DIGITAL CARTOGRAPHY

M. JOBST

CARTOMUNDI, A NEW INTERFACE TO FIND MAPS BY GEO-LOCALISATION

J.L. ARNAUD

MAP ARCHIVE ACCESSIBILITY USING THESAURI

Z. STACHON, J. KOZEL

AUTOMATIC PROCESSING OF THE FIRST RELEASE OF DERIVED STATE MAPS SERIES FOR WEB PUBLICATION

M. TALICH, F. ANTO et al

13:30-15:30

C3-NMA day - Euro SDR: NMCA's, universities and private players gathered for applied research

Chair: J.P. LAGRANGE

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SHORT INTRODUCTION ON EUROSDR

J.P. LAGRANGE

THE 3D CHALLENGE IN EUROSDR - STATUS AND PERSPECTIVES

D. FRITSCH

ADVANCED LIDAR, AERIAL AND TERRESTRIAL

J. HYPPA

QUALITY ASSURANCE OF DATA PRODUCTION

A. JAKOBSSON

AUTHENTICATION AND THE SHIBBOLETH TEST

C. HIGGINS

WEB CARTOGRAPHY

U. SANDGREN

15:30-17:00

C4-Geovisualisation - graphical issues and proposals

Chair: J. DYKES

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AUTOMATIC EVALUATION AND IMPROVEMENT OF MAP READABILITY

F. BESSADOK, C. DOMINGUES

AUTOSTEREOSCOPIC DISPLAYS FOR THEMATIC MAPS

C. KNUST, M.F. BUCHROITHNER *et al*

3DISCWORLD: AUTOMATIC PREPARATION AND VISUALIZATION OF 3D SPATIAL DATA WITH USE OF PLANAR DATA

A. BRYCHTOVA, V. VOZENILEK

GENERALIZED APPROACH TO CONSTRUCTION OF SIMPLE-SHAPED NON-CONTIGUOUS AREA CARTOGRAMS

R. INOUE

C4-Education, children, training

Chair: J. REYES

room
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A

NEW POSSIBILITIES OF MUTE MAP GAMES ON VIRTUAL GLOBES

E. SIMONNÉ DOMBOVÁRI, M. GEDE

FOR THE EXPANSION OF MAP USAGE IN SCHOOL -- WORKING GROUP ON THE PROMOTION OF MAP USAGE IN SCHOOLS

Y. KUMAKI

THE PRODUCTION OF MAPS FOR STUDENTS IN THE CONTEXT OF SCHOOL CULTURE

R. DOIN DE ALMEIDA

TOURISM IN EDUCATION, VECTOR OF CHANGE OF THE CHILDREN SPACE REPRESENTATION

K. BOGACZ

C4-Map projection

Chair: L. USERY

room
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B

USING EMPIRICAL MAP PROJECTIONS FOR MODELLING EARLY NAUTICAL CHARTS

J. GASPAR

WORKING OUT OF METHODS OF REALIZATION OF ELEMENTS OF THE MATHEMATICAL BASIS OF MAPS

A.G. IVANOV, G. ZAGREBIN

VISUALIZATION OF MAP PROJECTION DISTORTIONS BY USING FINITE CIRCLES: AN ALTERNATIVE APPROACH TO

TISSOT'S INDICATRIX

I.O. BILDIRICI, N.N. ULUGTEKIN

C4-Geoprocessing, geostatistics

Chair: D. JOSSELIN

room
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GEOSTATISTICAL MAPPING FOR ENVIRONMENTAL STUDIES

M. GOVOROV, G. GIENKO

AREA-UNIT DENSITY ESTIMATION FOR AGGREGATED MASS LOCATION DATA

C.E. MURPHY

POPULAR CARTOGRAPHIC AREAL INTERPOLATION METHODS VIEWED FROM A GEOSTATISTICAL PERSPECTIVE

P. KYRIAKIDIS

SPATIAL DISTRIBUTION OF SOIL ORGANIC CARBON STOCK IN TUNISIA

T. GALLATI, N. BRAHIM *et al***C4-Map and map legend analysis**

Chair: G. PALSKY

room
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A

A WORLD OF INTERSTICES: A FUZZY LOGIC APPROACH TO THE ANALYSIS OF INTERPRETATIVE MAPS

C. DIDELOIN, S. DE RUFFRAY *et al*

CLASSIFYING, ANALYSING AND EXPERIENCING MAPS. A TENTATIVE HUMANISTIC APPROACH

J. SZEGŐ

STRATEGIES OF LEGEND AND MAP INTEGRATION

I. GOLEBIEWSKA

ANALYSIS OF PERCEPTION OF CARTOGRAPHIC SIGN SYSTEMS IN LITHUANIAN GEOGRAPHY ATLASES FOR SCHOOL

I. ROCIUTE, M. DUMBLIAUSKIENE

C4-Simulation, spatio-temporal modelling, visualisation

Chair: R. WEIBEL

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B

FROM GRID ENVIRONMENT TO GEOGRAPHIC VECTOR AGENTS, MODELLING WITH THE GAMA SIMULATION PLATFORM

P. TAILLANDIER, A. DROGOUL

AGENT-BASED MODELLING OF EMERGENCY EVACUATION IN A SPATIALLY-AWARE AND TIME-AWARE ENVIRONMENT

X. CHEN

SPATIAL AND TEMPORAL MODELLING OF INDIVIDUALS LIFE TIME EXPOSURE TO ULTRAVIOLET B RADIATION

O. AMRAM, N. SCHUURMAN *et al*

IMPROVING RISK PERCEPTION WITH REAL-TIME 3D VISUALIZATION OF FLOOD SCENARIOS AT LOCAL SCALE

N. MERLET, K. LARNIER *et al***C4-Digital technologies and cartographic heritage**

Chair: A. RUAS

room
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SIGARH ARCHAEOLOGICAL AND HISTORICAL GIS: A MUTUALIZED HISTORICAL URBAN DATABASE

F. VIREVIALLE

THE ALPGE PROJECT: PARIS AND ITS URBAN AREA AT THE INTERSECTION OF HISTORY AND GEOGRAPHY (9TH-19TH CENTURY)

H. NOIZET, E. GROSSO

CARTOMETRIC ANALYSIS AND GEOREFERENCING OF SPECIAL (1:75 000) AND GENERAL (1:200 000) SCALE SHEETS OF THE THIRD MILITARY SURVEY

B. VEVERKA

VIROVITICA ON CADASTRAL MAPS

S. KICINBACI

16:00-17:00

 **C4-NMA day - global initiative**

Chair: D. CLARKE/T. TRAINOR

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WHAT SHOULD BE THE ROLE OF THE ICA WITHIN THE GGIM?

W. CARTWRIGHT, T. TRAINOR

THE UNITED NATIONS INITIATIVES ON GLOBAL GEOSPACIAL INFORMATION MANAGEMENT

SYNTHESIS OF THE DAY

D. CLARKE, T. TRAINOR

DI-National and regional atlases Chair: R. SIEBER

- room 241** THE CHALLENGE OF TARGETING DIFFERENT USER GROUPS WITH THE BIOTA EAST AFRICA ATLAS
G. SCHAAB, T. LUBKER et al
- UTILIZING SATELLITE IMAGERIES TO PROMOTE TOURISM OBJECTS OF NORTH SULAWESI PROVINCE, INDONESIA
S. EKA WATI, T. HASTUTI
- PLAYING WITH MAPS: THE ATLAS OF NEW CALEDONIA
E. HABERT, J.C. GAY et al
- THE ELECTRONIC ATLAS OF GREEK MONASTICISM
M. MYRIDIS, P. LAFAZANI et al

DI-Map projection Chair: M. LAPAINE

- room 242 A** THE GAUSSKRUEGER PROJECTION
R.E. DEAKIN, M.N. HUNTER et al
- SELECTED ISSUES OF UTILISATION OF EQUI-AREA MAP PROJECTIONS FOR CALCULATION OF AREAS OF ADMINISTRATIVE UNITS IN POLAND
P. PEDZICH, M. KUZMA
- LOW-ERROR EQUAL-AREA MAP PROJECTIONS FOR GLOBAL MAPPING OF THE TERRESTRIAL ENVIRONMENT
F. CANTERS, T. CROLS

DI-Map and the internet Chair: R. CAMMACK

- room 242 B** MAPTILER: TILE MAP PUBLISHING A LA GOOGLE MAPS
P. PRIDAL
- CARTOGRAPHIC DASHBOARDS TO ENHANCE THE DATABANK OF OFFICIAL STATISTICS IN QUEBEC (BANQUE DE DONNEES DES STATISTIQUES OFFICIELLES - BDSO)
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- TWENTY YEARS OF THE WORLD WIDE WEB: PERSPECTIVES ON THE INTERNET TRANSITION IN CARTOGRAPHY
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- DESIGN OF THE BASE WORLD MAP FOR ONLINE-MAPPING SERVICE
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DI-Feature selection and typification in generalisation Chair: S. MUSTIERE

- room 243** INTERACTIVE SCALE-DEPENDENT MULTIDIMENSIONAL POINT DATA SELECTION USING ENHANCED POLARIZATION TRANSFORMATION
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- INSET MAPPER: A TOOL FOR SCALE SELECTION AND INSET PLACING CONFIGURATION OF MULTIPLE INSETS IN ISLAND CARTOGRAPHY
A. PAPA KONSTANTINO, D. VARSAMIS et al
- PATTERN RECOGNITION AND TYPIFICATION OF DITCHES
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DI-SAGEO GIS and Archeology Chair: M. GAIO

- room 251** **KEYNOTE** FROM GIS TO FOLK MAPPING AND DATESCAPES
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- UN SIG POUR TRENTE CINQ HECTARES DE RUINES
E. REGAGNON, O. BARGE
- CONCEPTION ET ANALYSES D'INFORMATIONS ARCHEOLOGIQUES DANS UN SIG
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DI-Toponyms on maps and on GeoDB Chair: F. ORMELING

- room 252 A** GEONIMY OF THE POLITICAL ADMINISTRATIVE EVOLUTION OF RIO DE JANEIRO STATE - BRAZIL
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- THE RIVERHEAD OF URUGUAI RIVER: ORIGINS OF A CONTROVERSY
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- A NEW APPROACH TO THE COLLECTING OF GEOGRAPHIC NAMES IN BRAZIL
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DI-Digital technologies and cartographic heritage Chair: E. GROSSO

- room 252 B** METHODS OF GEOREFERENCING OLD MAPS ON THE EXAMPLE OF CZECH EARLY MAPS
J. CAJTHAML
- GEOHERITAGE – A WEB APPLICATION PROVIDING ACCESS TO THE CULTURAL HERITAGE RESOURCES
A. MOSCICKA
- THE DANUBE MAP OF BELA VALYI AND ITS GEOREFERENCING METHOD
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- EVALUATING SOME NUMERICAL PARAMETERIZATION IN THE EARLY FRENCH CARTOGRAPHY OF THE AEGEAN SEA
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- room 241**
- TWO CENTURIES MAPPING OF MARINE SEDIMENTS
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- THE ANALYSIS OF THE CURRENT PROBLEM OF OVERLAP OF THE ELECTRONIC NAVIGATION CHART DATA IN THE ADRIATIC SEA AND A PROPOSAL FOR THE SOLUTION
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- THE HISTORY OF PUBLICATION SYMBOLS AND ABBREVIATIONS USED ON CHARTS
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- TOPOGRAPHIC LINE MAPS FOR MILITARY PURPOSES
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- room 242 A**
- OPTIMISING THE DISTORTIONS OF SINUSOIDAL-ELLIPTICAL COMPOSITE PROJECTIONS
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- BLENDING WORLD MAP PROJECTIONS
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- SOME PECULIARITIES OF GENERATING PROJECTIONS FOR A TRIAXIAL ELLIPSOID
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- THE PROGRESSION AND FUTURE OF POLAR MAPPING IN CHINA
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D2-Web services and cartographic issues for geoportals

Chair: M. PETERSON

- room 242 B**
- CARTOGRAPHIC QUALITY ISSUES OF VIEW SERVICES IN GEOPORTALS
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- IMPROVING WEB MAPPING WITH GENERALISATION
J. GAFFURI
- GEOVITE - A SERVICE-DRIVEN SOLUTION FOR AN ON-DEMAND, USER-FRIENDLY WEB ACCESS TO GEODATA
C. IOSIFESCU, I. IOSIFESCU et al
- CARTOGRAPHIC ENHANCED GEOPORTALS
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- room 243**
- COLLAGEN: COLLABORATION BETWEEN AUTOMATIC CARTOGRAPHIC GENERALISATION PROCESSES
G. TOUYA, C. DUCHENE
- METHODS FOR EVALUATING THE RESULTS OF AUTOMATED GENERALIZATION
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- A DIAGNOSTIC TOOLBOX FOR ASSESSING POINT DATA GENERALISATION ALGORITHMS
P. BERELUTER, R. WEIBEL
- USING HUMAN-MACHINE DIALOGUE TO REFINE GENERALISATION EVALUATION FUNCTION
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D2-SAGEO Space and Time in GIS Chair: T. DEVOGELE

- room 251**
- SPACE-TIME EVOLUTION OF A FLEXIBLE SERVICE OF TRANSPORT SIMULATED IN SYSTEMS MULTI-AGENT
A. LAMMO GLIA
- MODELISATION DES TRAJECTOIRES SPATIO-TEMPORELLES ISSUES DES TRACES NUMERIQUES DE TELEPHONES PORTABLES - LE PARIS DES VISITEURS, QU'EN DISENT LES TELEPHONES MOBILES ?
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- LA PLACE DU GEODECISIONNEL DANS LES SYSTEMES DE SURVEILLANCE MARITIME DE NOUVELLE GENERATION
A. VAN DE CASTEELE, A. NAPOLI
- MODELISATIONS GEOMETRIQUES PLURIELLES D'UN ESPACE AGRICOLE EN EVOLUTION
G. JANTY, A. DEL, M. COHEN
- MAGIS: PRESENTATION OF THE FRENCH RESEARCH GROUP IN GEOMATICS

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Chair: H. RICHARD

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- STANDARDIZATION OF THE GEOGRAPHICAL NAMES IN CROATIA
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- GAZETTEER, A TOOL TO ACCESS GEOGRAPHICAL INFORMATION
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- CHINESE NATIONAL GEOGRAPHICAL NAMES DATA BASE MANAGEMENT SYSTEM
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- NATIONAL REGISTER OF GEOGRAPHICAL NAMES AS PART OF A MODERN, CONSISTENT AND REFERENCE SPATIAL DATA INFRASTRUCTURE OF POLAND
K. PRZYSZEWSKA, K. SZYSZKOWSKA

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Chair: E. LIVIERATOS

- room 252 B**
- SEREDONA: A WEB PLATFORM TO INTEGRATE HISTORICAL GEOGRAPHIC DATA INTO CURRENT GEOREFERENCED FRAMEWORKS
E. GROSSO
- GEOREFERENCER ONLINE SERVICE AND MAPRANK SEARCH
P. PRIDAL
- WEB SERVICES AND HISTORICAL CADASTRAL MAPS: THE FIRST STEP IN THE IMPLEMENTATION OF THE WEB C.A.R.T.E. SYSTEM
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- A METHOD FOR THE VISUAL REPRESENTATION OF HISTORIC MULTIVARIATE POINT DATA
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D2-National and regional atlases

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- THE ATLAS TOOLBOX: CONCEPT AND DEVELOPMENT OF A RULE-BASED MAP COMPONENT FOR A GIS-VIS PRODUCTION ENVIRONMENT
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- THE NEW NATIONAL ATLAS OF SPAIN ON INTERNET
N. PEREZ, P. SANCHEZ-ORTIZ et al
- FROM CLASSIC ATLAS DESIGN TO COLLABORATIVE PLATFORMS: THE SWISS ATLAS PLATFORM PROJECT
R. SIEBER, L. HOLLENSTEIN et al
- PLATFORM STAT@LAS - 5 YEARS OF EXPERIENCES WITH AN ATLAS CONTENT MANAGEMENT SYSTEM FOR STATISTICAL ATLASES
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	REPRESENTER LE CHANGEMENT:ANIMATIONS CARTOGRAPHIQUES ET USAGES SUR LE WEB <i>C. CUNTY, H. MATHIAN Groupe Cartomouv</i>	
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	QUALITY EVALUATION CRITERIUM OF HISTORICAL MAPS <i>P.M. LEAL DE MENEZES, B.S. MICELI et al</i>	
	FRENCH TOPOGRAPHIC AND HYDROGRAPHIC SURVEYS OF DALMATIA IN THE NAPOLEONIC PERIOD <i>M. ALTIC</i>	
	A NEW VIEW ON THE FRENCH CARTOGRAPHIC MAPPING FOOTPRINTS IN THE EARLY LIFE OF THE NEW GREEK STATE (1827-1834) <i>E. LIVIERATOS</i>	
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	OPEN DATA ACCESS AND INTELLECTUAL PROPERTY RIGHTS FOR HISTORICAL CARTOGRAPHY:A GEOSS USE CASE <i>L. LOVISON-GOLOB</i>	
	TWO EMBLEMATIC FRENCH MAPS OF PELOPONNESE (MORÉE):LAPIE'S 1826 VS THE 1832 MAP (EXPÉDITION SCIENTIFIQUE).A DIGITAL COMPARISON WITH RESPECT TO MAP-GEOMETRY AND TOPONYMY. <i>N. PLOUTOGLOU, M. PAZARLI et al</i>	
	ANALYSIS OF THEMATIC MAP DESIGN IN THE GEOGRAPHICAL JOURNAL AND THE GEOGRAPHICAL REVIEW DURING THE TWENTIETH CENTURY <i>T. SLOCUM, F. KESSLER</i>	
D3-National and regional atlases		Chair: P. JORDAN
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	PROJECT OF PHENOLOGICAL ATLAS OF CZECHIA <i>V. VOŽENILEK, L. HAJKOVA et al</i>	
	CHALLENGES FOR NATIONAL ATLAS-PUBLICATIONS.THE APPROACH OF THE NATIONAL ATLAS OF GERMANY. <i>E. LOSANG</i>	
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- room 241**
- TOPONYMS AND CARTOGRAPHY: HISTORICAL PERSPECTIVE AND LINGUISTIC CHALLENGES
J. LÖFSTRÖM, V. PANSINI
- VISUALIZATION WITHIN THEORETICAL CARTOGRAPHY: A WAY TO STUDY TOPONYMS
Y. FERLAND
- TRENDS OF EXONYM USE IN EUROPEAN SCHOOL ATLASSES
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- TOWARDS A GEOGRAPHICAL NAME DATA BASE IN TUNISIA: THE CASE OF THE TOPOGRAPHIC MAP SHEET OF SFAX NUMBER 107
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D4-Topographic maps and data bases: processes and architectures

Chair: P. DE MAEYER

- room 242 A**
- UNITED STATES NATIONAL FOUNDATION GEOSPATIAL DATA MAINTAINED BY THE U.S. GEOLOGICAL SURVEY AS PART OF THE NATIONAL MAP
K. CRAUN, L. USERY
- MIGRATION OF UNSTRUCTURED DESKTOP-PUBLISHING MAPS INTO A GIS
T. GLOOR, G.R. SCHAAD *et al*
- DATABASE MANAGEMENT ON GPU
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- GEOLOGICAL MAPS PRODUCTION TECHNIQUES
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D4-Internet and interactive maps

Chair: G. GARTNER

- room 242 B**
- AIRE, AN INTERACTIVE ATLAS FOR DECISION MAKING SUPPORT
C. TOBELEM, ZANIN
- THE POSSIBILITIES OF FUNCTIONALITY RESEARCH OF INTERACTIVE INTERNET MAPS
A. BALCIUNAS
- ADVANCED SEMI-AUTOMATIC VISUALIZATION OF SPATIAL DATA USING INSTANT ATLAS
A. VONDRAKOVA, V. VOZENILEK *et al*
- THE GLOBE OF RUSSIAN GEOGRAPHICAL RESEARCHES AND EARTH DISCOVERY
A. MEDVEDEV, V. KOTLYKOV *et al*

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- room 243**
- OBJECT BASED IMAGE ANALYSIS FOR THE OPERATIONAL PRODUCTION OF HIGH RESOLUTION LAND COVER: THE DEVELOPMENT OF LANDBASE.
A. TEWKESBURY, G. HINCHLIFFE
- COMBINATION OF TECHNIQUES FOR THE SETUP OF THE BDT RHÔNE, A HIGH ACCURACY ALTIMETRIC DATABASE FOR THE MITIGATION OF FLOOD EVENTS.
F. THOMAS, V. PEREIRA *et al*
- DEVELOPMENT OF A GEODATABASE FOR USE IN FORESTLAND MANAGEMENT
M. CROSBY, M. BOOTH
- TOPOGRAPHIC AND FORESTRY MAPPING FROM BRAZILIAN AMAZON USING SYNTHETIC APERTURE RADAR IMAGES
A.H. CORREIA, P.R. VIEIRA

D4-SAGEO Chair: A. BOUJU

- room 251**
- SESSION « POSTERS »
- MAGIS: PHD DISSERTATION AWARDS
- ITINERARY OF TWO GEOMATICIANS
R. LAURINI, T. LIBOUREL

D4-History of cartography and GI science

Chair: I. DEMHARDT

- room 252 A**
- FILLING IN THE BLANK SPACES: THE MAPPING OF BRITISH AFRICA, 1800 TO 1960
E. LIEBENBERG
- HOW SHALL AFRICA BE MAPPED? FRENCH AND BRITISH RESPONSES TO THE NEEDS OF COLONIAL MAPPING
P. COLLIER
- CREATING A STYLE FOR A REGIONAL SCALE TOPOGRAPHIC MAP, THE CASE OF THE SOUTH AFRICA 1:250,000 SERIES
C. BOARD
- FIFTIETH ANNIVERSARY OF MAPPING AND GEOGRAPHICAL SCIENCES IN IVORY COAST: FROM EARTH TO MAP AND FROM MAPS TO GIS
V. KPAN NOEL

D4-Digital technologies and cartographic heritage

Chair: L. LOVINSON

- room 252 B**
- 3D MODELLING FROM AN 18TH CENTURY SCENOGRAPHIC MAP OF BOLOGNA (ITALY)
G. BITELLI, G. GATTA
- VIRTUAL RECREATION OF THE MONROY ROMAN VILLA (EXTREMADURA - SPAIN)
A.D.J. ATKINSON, F. BERENQUER SEMPERE *et al*
- FLOOR EXHIBITION OF INOH'S MAP, THE OLDEST SCIENTIFICALLY SURVEYED MAP IN JAPAN
Y. HOSHINO, M. KITANI *et al*
- CROSSING BORDERS: CARTOGRAPHIC AND MILITARY OPERATIONS AND THE INTERNATIONAL BORDERS IN THE LIBYAN DESERT BEFORE WW II
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D4-Marine, military and topographic cartography

Chair: O. PARVILLERS

- room 253**
- MAPS OF MILITARY TRAINING AREAS - SOME ASPECTS OF THE PRODUCTION OF A TOPOGRAPHIC MAP 1:25 000
R. DITZ, A. STUMMVOLL
- USING ENTROPY TO ASSESS EFFICIENCY OF TERRAIN REPRESENTATION
D. FAIRBAIRN
- THE RPI GEOSTAR PROJECT
W.R. FRANKLIN

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- room 241**
- DEFINITION AND IMPLEMENTATION OF A WEB SPATIAL CONTEXT SERVICE DEDICATED TO SERIOUS GAMES ON SMART PHONES
E. EDOH-ALOVE, F. HUBERT *et al*
- THE GEOTOPIA PLATFORM: AN EXAMPLE OF SPATIAL AND TEMPORAL MANAGEMENT OF DOCUMENTS
T. JOLIVEAU, A. ROYER *et al*
- E-FOREST: A GENERIC PLATFORM TO BUILD THEMATIC GEOPORTALS
J.L. COUSIN, B. PESTY
- MAPS AND SPECIFICATIONS: FROM DESIGN MODEL TO FINAL USER
E. BOCHER, O. ERTZ *et al*

EI-Maps and data bases: multiple representation and matching Chair: S. MUSTIERE

- room 242 A**
- INTERACTIVE METHODS FOR SPATIO-STATISTICAL DISTRIBUTION DISCRETIZATION
D. JOSSELIN, B. PRACHE
- THE EVER IMPROVING GIS MAP: EVOLUTION OF CARTOGRAPHIC REPRESENTATIONS AND MAP PRODUCTION PROCESSES - LESSONS LEARNT FROM THE IGN TOPOGRAPHIC MAP PRODUCTION PROJECT
P. GUISLAIN, F. LECORDIX
- PRODUCTION LINE OF THE FRENCH FOREST
T. TOUZET, X. HALBECQ *et al*
- HOW TO GEOLOCALIZE AN ADMINISTRATIVE FILE BASING ON ITS ADDRESSES DATA? A PROPOSAL TO ACHIEVE A BETTER GEOCODING.
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EI-Maps, GIS & sustainable development Chair: C. ZANIN

- room 242 B**
- GLOBAL MAPPING ACTIVITIES FOR THE VERSION2 DEVELOPMENT AND ITS APPLICATIONS
Y. FUKUSHIMA, M. KOARAI *et al*
- BREAKING DOWN BARRIERS BETWEEN CARTOGRAPHY, GEOSPATIAL INFORMATION AND ENVIRONMENTAL MONITORING DATA: TOWARDS A NEW PRODUCTION MODEL
N. VALCARCEL, A. AROZARENA *et al*
- CREATING A NEW INTERNATIONAL MAP OF THE WORLD: THE GLOBAL MAP EXPERIENCE
D.R.F. TAYLOR
- AVAILABLE OPENSOURCE GEOSPATIAL DATA FOR AFRICA: AFRICA-GEODEV INVENTORY AND DISSEMINATION POLICY
C. CREPEAU

EI-Road, river, polygon generalisation Chair: T. DEVOGELE

- room 243**
- EVALUATION OF PROPERTIES TO DETERMINE THE IMPORTANCE OF INDIVIDUAL ROADS FOR MAP GENERALIZATION
Q. ZHOU, Z. LI
- AUTOMATED DELINEATION OF STREAM CENTERLINES FOR THE USGS NATIONAL HYDROGRAPHY DATASET
C. ANDERSON-TARVER, B.P. BUTTENFIELD
- BEST PRACTICES FOR POLYGON GENERALISATION FROM MEDIUM TO SMALL SCALE IN A GIS FRAMEWORK
A. SKOPELITI
- MODEL GENERALIZATION OF THE HYDROGRAPHY NETWORK IN THE CARGEN PROJECT
S. SAVINO, A. RUMOR *et al*

🇬🇧 🇮🇹 **EI-General Assembly**

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EI-Symbols, colors and map design Chair: R. LAURINI

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- WEB MAP USE AND DESIGN: SHIFTING THE CARTOGRAPHY PARADIGM
A. BUCKLEY, C. FRYE
- A NEW MAP SIGN TYPOLOGY FOR THE GEOWEB
T. WALLACE
- MAP DESIGN FOR A MULTI-PUBLISHING FRAMEWORK - CASE MENOMAPS IN NUUKSIO NATIONAL PARK
J. OKSANEN, F. SCHWARZBACH *et al*
- NEW APPROACH TO CARTOGRAPHIC PRESENTATION OF GEOREFERENCE DATABASE IN POLAND
W. OSTROWSKI, A. GIAZEWSKI *et al*

EI-Analysis and visualisation of social and others networks Chair: H. MATHIAN

- room 252 B**
- GEOVISUALIZATION OF PUBLIC TRANSPORTATION USING THE SPACE-TIME CLOUD
J. RUSH, M.P. KWAN
- MULTIPLE-VIEW SYSTEM FOR SOCIAL NETWORK ANALYSIS AND EXPLORATION
L. DELAZARI, M.C.B. BRANDALIZE *et al*
- METHODOLOGIES FOR IDENTIFYING SOCIAL NETWORK STRUCTURES ONLINE: UTILIZING GIS FOR CYBERCARTOGRAPHY
M. STEPHENS
- COGNITIVELY PLAUSIBLE VISUALIZATION OF NETWORK DATA
M.M. SALVINI, A. GNOS *et al*

EI-History of cartography and GI science Chair: J. OLSON

- room 253**
- THE USE OF MAPS TO EXAMINE THE HISTORY AND GROWTH OF RURAL ARAB SETTLEMENT IN PALESTINE 1871-1948
S. FRANTZMAN, R. KARK
- MAPPING 'MACEDONIA'S FIVE MOST EXCELLENT CITIES' - WHAT DO BYZANTINE STUDIES, AUSTRIAN CARTOGRAPHY FROM THE 1830S AND GIS HAVE IN COMMON?
M. POPOVIC
- LATE APPEARANCE OF EARLY ARAB CARTOGRAPHY: AZ-ZAYYANI'S MANUSCRIPT MAP (19TH C.) - ITS TOPONYMY AND ITS VISION OF THE WORLD
B.R. ZAGORSKI

E2-Topographic data bases and maps Chair: B. BUCHER

room 241	MAPS SERIES DERIVED FROM A GEOGRAPHIC DATABASE <i>F. SPITAEELS</i>
	MULTI-SCALE MAPS FROM THE BDTOPO DATA BASE OF THE IGN FRANCE: THE PRODUCTION LINE OF THE NEW IGN BASE MAP <i>E. MAUGEAIS, F. LECORDIX et al</i>
	NEW GIS BASED MAP OF SPAIN 1:500.000 <i>E. NUNEZ-MADERAL, J. GONZALEZ-MATESANZ et al</i>
	MAP AUTHORIZING IN THE AGE OF MULTIDIMENSIONAL GEODATA PROCESSING <i>L. HURNI, S. WONDRAK</i>

E2-Web mapping Chair: B. KOBLEN

room 242 A	ENCOURAGING INTERDISCIPLINARY PARTICIPATION IN ATLAS PROJECTS USING AN OPEN SOURCE CYBERCARTOGRAPHIC TOOLKIT: THE ATLAS OF THE LAKE HURON TREATY RELATIONSHIP PROCESS <i>G. BRAUEN, D.R. TAYLOR et al</i>
	USING WEB MAP SERVICE (WMS) WITH STYLED LAYER DESCRIPTOR (SLD) FOR CREATING DYNAMIC AND USER-ORIENTED MAPS <i>J. BURDZIEJ</i>
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E2-Maps, GIS & sustainable development Chair: M. COHEN

room 242 B	MEASURING URBAN SPRAWL AND COMPACTNESS: CASE STUDY ORLANDO, USA <i>S. SIM, V. MESEV</i>
	AUTOMATICALLY GEOREFERENCED MAPS AS A SOURCE FOR HIGH RESOLUTION URBAN GROWTH ANALYSES <i>H. HEROLD, P. ROEHM et al</i>
	VISUALIZATION URBAN SPATIAL GROWTH OF DESERT CITIES FROM SATELLITE IMAGERY: A PRELIMINARY STUDY <i>X. YANG</i>
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E2-Terrain generalisation Chair: C. DUCHENE

room 243	CONTOUR LINE GENERALIZATION BY MEANS OF ARTIFICIAL INTELLIGENCE TECHNIQUES <i>J. LOPES, J. CATALAO et al</i>
	GENERALIZING DIGITAL ELEVATION MODELS FOR SMALL SCALE HYPSONETRIC TINTING <i>A. LEONOWICZ, B. JENNY</i>
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E2-Mapping and spatial awareness for disabled people Chair: M. RICE

room 252 A	SPATIAL ANALYSIS USING SONOROUS CARTOGRAPHY. SOME PROPOSITIONS <i>D. JOSSEJUN</i>
	MUSIC REPRESENTATION OF SURFACE <i>A. MEDVEDEV</i>
	INTEGRATING USER-CONTRIBUTED GEOSPATIAL DATA WITH ASSISTIVE GEOTECHNOLOGY USING A LOCALIZED GAZETTEER <i>M.T. RICE, W.C. HAMMILL et al</i>
	IMPROVING ACCESSIBILITY INFORMATION IN PEDESTRIAN MAPS AND DATABASES <i>M. LAAKSO, T. SARJAKOSKI et al</i>

E2-Generalisation - geovisualisation Chair: B. BUTTENFIELD

room 252 B	AN INTELLIGENT DEFORMATION METHOD FOR IMPROVING THE CLARITY OF SCHEMATIC NETWORK MAP <i>P.TI, Z. LI</i>
	CARTOGRAPHIC GENERALIZATION OF SOCIAL NETWORK <i>R.M. POMBO, C.R. SLUTER</i>
	TIMELINE: A TOOL FOR THE VIDEO ANALYSIS AND VISUALISATION OF GEOGRAPHIC PHENOMENA OVER TIME <i>M. KUHN, A. COLTEKIN et al</i>
	GEOVISUAL ANALYSIS OF MASS DATA FOR CIVIL SECURITY PURPOSES <i>M. WOLFF, J. GONSCHOREK</i>

E2-History of cartography and GI science Chair: C. BOARD

room 253	FRIEDRICH WILHELM VON EGLOFFSTEIN, THE IVES-EXPEDITION TO THE GRAND CANYON (1857-58), AND THE FIRST RELIEF SHADED MAPS OF A PORTION OF THE UNITED STATES <i>I.J. DEMHARDT</i>
	PRECEDENTS OF THE 19TH CENTURY CARTOGRAPHY OF THE COASTS OF FLORIDA, MISSISSIPPI, ALABAMA, LOUISIANA AND TEXAS: SPANISH, ENGLISH AND FRENCH MAPS AND CHARTS, 1500-1800 <i>P. CHIAS, T. ABAD</i>
	WHY BECOMING A GEOGRAPHER IN THE XVIII CENTURY? THE ROLE OF SCHOOL IN THE CAREER OF JEAN-BAPTISTE D'ANVILLE (1697-1782): STATE OF A STUDY <i>L. HAGUET</i>
	THE HISTORY OF CARTOGRAPHY IN ALBANIA <i>P. NIKOLLI, B. IDRIZI</i>

13:30-15:00

E3-Mapping for colour-blind or blind users Chair: M. RICE

- room 241** IMPROVING TOPOGRAPHIC MAPS FOR COLOR-BLIND USERS
F. DHEE
- CARTOGRAPHIC DESIGN OF IN-CAR ROUTE GUIDANCE FOR COLOR-BLIND USERS
E. PUGLIESI, M. DECANINI
- CARTOGRAPHIC RESEARCH FOR BLIND AND PARTIALLY-SIGHTED PEOPLE APPLIED IN PRACTICE
A. ROHONCZI
- ATLAS OF THE WORLD FOR THE BLIND AND VISUALLY IMPAIRED - THE LATEST TYPHLOGRAPHICAL PUBLICATION OF HEAD OFFICE OF GEODESY AND CARTOGRAPHY ON POLISH TYPHLOGRAPHY'S BACKGROUND
K. PRZYSZEWSKA, K. SZYSZKOWSKA

E3-Production and management of thematic data base Chair: G. TOUYA

- room 242 A** AERONAUTICAL DATA DRIVEN CARTOGRAPHY
S. DUBET, J. WEAVER
- USING THE SUPPLY-CHAIN OPERATIONS REFERENCE MODEL (SCOR) TO MODEL THE PRODUCTION OF NAUTICAL CHARTS BY THE SA NAVY HYDROGRAPHIC OFFICE
P. SCHMITZ, A. KAMPFER *et al*
- EMPLOYING GEODATABASES FOR GIS IN PLANETARY MAPPING
S. VAN GASSELT, A. NASS
- THE KEY TECHNOLOGIES ON ELECTRONIC NAVIGATION MAP DELTA UPDATING
X. SU, J. LI

E3-Geoinformation retrieval Chair: M. VILLANOVA

- room 242 B** MINING USER GENERATED WEB CONTENT TO CHARACTERISE GEOGRAPHIC FEATURES BEYOND TOPOGRAPHICAL ASPECTS
L. MASSIOT, B. BUCHER *et al*
- INFORMED FEATURE: GRAPHIC USER INTERFACE BETWEEN PEOPLE AND GEO-INFORMATION
M. OTA
- A TRIANGULATED SPATIAL MODEL FOR DETECTION OF SPATIAL CHARACTERISTICS OF GIS DATA
J. LI
- PROBABILISTIC MATCHING OF MAP OBJECTS IN MULTI-SCALE SPACE
S. YING, L. LI *et al*

E3-Maps, GIS & sustainable development Chair: H. KREMERS

- room 243** RECOPLA: AN INVENTORY OF MARINE GEOSCIENCE DATA FOR A MODERN MAP OF THE FRENCH CONTINENTAL SHELF
C. SATRA LE BRIS, E. GAUTIER *et al*
- GIS-AIDED METHOD OF FOREST CURRENT STATE AND DYNAMICS MAPPING
M. KORETS, V. RYZHKOVA *et al*
- THE GEOSPATIAL INFORMATION LIKE KEY DRIVER FOR SUSTAINABLE DEVELOPMENT AND SOCIAL COHESION. TOWARDS A NEW PRODUCTION MODEL
A. AROZARENA, N. VALCARCEL *et al*
- DESIGN, IMPLEMENTATION AND DISTRIBUTION OF 3D GEOSPATIAL DATA TYPES FOR URBAN TOPOGRAPHIC APPLICATIONS
S. KLJUCANIN, Z. AVDAGIC *et al*

E3-Symbols, colours and map design Chair: S. CHRISTOPHE

- room 252 A** WYSIWYG METHOD OF MAP COLOR
M. WU, T. CHEN *et al*
- BEYOND BALANCE AND CONTRAST: APPLICATIONS OF OTHER GRAPHIC DESIGN PRINCIPLES IN CARTOGRAPHY
G. MCCLEARY
- COMPARISON OF TOPOGRAPHIC MAP DESIGNS FOR OVERLAY ON ORTHOIMAGE BACKGROUNDS
P. RAPOSO, C.A. BREWER
- AUTOMATED DOT MAPPING - HOW TO GENERATE DOT CLUSTERS
A. HEY

E3-Digital technologies and cartographic heritage Chair: H. RICHARD

- room 252 B** IDENTIFYING COLORS ON EARLY GEOLOGICAL MAPS: A COMPARISON OF METHODOLOGIES
K. COOK
- ANALYSIS FOR FACSIMILE OF CADASTRAL MAP OF VARAZDIN
M. HUSAK
- A DIGITAL REFERENCED STUDY OF PIERRE LAPIE'S MAPS OF GREECE (1822, 1826) WITH RESPECT TO HIS CARTOGRAPHIC RECONSTRUCTION OF PTOLEMY'S GEOGRAPHIA (1834)
A. TSORLINI, M. PAZARLI *et al*
- CARTOMETRIC ANALYSIS OF JAUME OLIVES' PORTOLAN ATLAS OF 1563
V. VOZENILEK

E3-History of cartography and GI science Chair: E. LIEBENBERG

- room 253** A CRITICAL ANALYSIS OF TAN-HSIN ARCHIVES MAPS
Y.N. HUANG, J.G. LAY *et al*
- MODERNIZATION EFFORTS OF JAPAN MEIJI RESTORATION GOVERNMENT AND FRENCH CONTRIBUTION TO JAPANESE TOPOGRAPHIC MAPPING IN 1870S
S. HOSOI
- THE HISTORY OF CARTOGRAPHY IN THE METROPOLITAN REGION OF RECIFE
L. ANTUNES CORREIA MARQUES SA
- PRESENTATION OF THE HISTORICAL NOTES OF THE IGN-FRANCE (*extra ICC2011 selection paper*)
J.-C. LEBLANC

15:00-16:30

Closing Ceremony Room 241

- RESULTS FROM THE ICA GENERAL ASSEMBLY:
- ELECTED EXECUTIVE COMMITTEE
 - COMMISSION CHAIRS
 - ICC 2015 HOST COUNTRY
- ICA AWARDS
- PRESENTATION OF ICC 2013 IN DRESDEN
- CLOSING SPEECH