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ICC2005 -International Cartographic Conference-

- Descripción: Documentación en formato PDF correspondiente a las **presentaciones orales** expuestas en a la **Conferencia Internacional de Cartografía 2005**.

- Evento: ICC 2005, La Coruña, España. 9-16 de Julio de 2005.

- Enlaces relacionados:

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- "PECULIARITIES OF THE UTM PROJECTION: CHANGING THE UTM ZONE THEORY AND ITS APPLICATION CHARACTERIZED IN SIGNIFICANT STAGES." Ferrer Torío, R. (Spain), Piña Patón, B., Sánchez Espeso, J., deLuis Ruiz J.M, Ruiz Bedia. M.L, Pereda garcía, R, Castillo López, E. and Bayarri Cayón, V.
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"UNCERTAINTY RASTER-MAP ESTIMATION BY MEANS OF STOCHASTIC SIMULATION: A NEW SPATIAL METADATA APPROACH" Felicísimo, A.M. (Spain) and Cuartero, A.

"DEALING WITH UNCERTAINTY IN LARGE-SCALE URBAN AND CADASTRAL DATABASES" Drecki, I. (New Zealand) and Maciejewska, I.

"OPTIMIZATION OF VECTOR DATA CAPTURE AND QUALITY ASSESSMENT" Iribas, M. (Spain), Huarte, A., Velasco, X. and Clerigué, R.

"THE PROPAGATION OF POSITIONAL ERROR INDUCED BY LI-OPENSRAW ALGORITHM" Mei, S. (China) and Jiang, N.

"INTEGRATING DATA LAYERS TO SUPPORT THE NATIONAL MAP OF THE UNITED STATES" Usery, E.L. (USA), Finn, M.P. and Starbuck, M.

Session 5

"ABOUT QUALITY OF SPATIAL DATA IN A NEW DIGITAL LAND COVER HIGH SCALE MAP OF GALICIA (SPAIN)" Chantada Acosta, J. R. (Spain), Casciani, M., Caamaño, A., Alvarez, C., Fernandez, P., Lopez, A.

"QUALITY ASSESSMENT OF THE CORINE LAND COVER 2000 DATA BASE IN SPAIN" Ruiz Bustos, M. (Spain), Del Bosque González, I., Villa Alcázar, G. and Arozarena Villar, A.

"THE QUALITY CONTROL OF VECTOR MAP DATA" Fanghua, W. (China) and Pingzhi, L. Jincheng

"QUALITY FUNCTION DEPLOYMENT: AN EXAMPLE OF THE APPLICATION OF THE HOUSE OF QUALITY (HOQ) TO CARTOGRAPHY" Ariza López, F.J. (Spain), García Balboa, J.L. and Fernández Oliveras, P.

"THE PROCESSES OF CONTROL OF QUALITY OF THE GEOGRAPHIC AND TERRITORIAL INFORMATION" Pizarro Hernández, B. (Spain)

Session 6

"GEOMÓBIL: ICC LAND BASED MOBILE MAPPING SYSTEM FOR CARTOGRAPHIC DATA CAPTURE" Alamús, R. (Spain), Baron, A., Bosch, E., Casacuberta, J., Pla, M., Sánchez, S., Serra, A. and Talaya, J.

"ON THE USE OF AIRBORNE LASER SCANNING DATA TO VERIFY AND ENRICH ROAD NETWORK FEATURES" Hatger, C. (Germany)

"A NEW APPROACH TO RELIEF REPRESENTATION" Ramírez, J.R. (USA)

"ANALYSIS OF SLOPE TO STUDY EROSION" Ramos Galán, M.I. (Spain), Feito Higuera, F.R. and Gil Cruz, A.J.

"LITTO 3D" Louvart, L. (France), Ehrhold, A. and Grateau, C.

THEME 8: INCREMENTAL UPDATING AND VERSIONING OF SPATIAL DATA BASES.

Session 1

"TOPOGRAPHIC FACTORS AS A USABLE TOOL FOR RIGHT MODELLING OF CONTINUOUS FEATURES MEASURED IN POINT"

Bac-Bronowicz, J. (Poland)

"INCREMENTAL UPDATE OF CARTOGRAPHIC DATA IN A VERSIONED ENVIRONMENT" Briat, M-O. (USA), Monnot, J-L. and Kressmann, T.

- "RE-GENERALISATION AND CONSTRUCTION - TWO ALTERNATIVE APPROACHES FOR AUTOMATED INCREMENTAL UPDATING IN MRDB" Bobzien, M. (Switzerland), Burghardt, D. and Petzold, I.
- "UPDATING OF GEOSPATIAL DATA: A THEORETICAL FRAMEWORK" Ramirez, J.R. (USA)
- "CREATION OF THE SYSTEM OF DISTRIBUTED SHAREABLE GEOGRAPHICAL DATA BASES FOR CARRYING OUT COMPLEX RESEARCHES OF TERRITORIES" Lourie, I.K. (Russia), Alioutdinov, A.R. and Michailov, D.V.

THEME 9: CARTOGRAPHIC GENERALIZATION AND MULTIPLE REPRESENTATION.

Session 1 "GENERALISATION, DATA MODELLING AND UPDATING"

- "USING ARTIFICIAL NEURAL NETWORKS AND MOMENT INVARIANTS FOR THE EVALUATION AND CLASSIFICATION OF GENERALIZED OBJECTS" Iwaniak, A. (Poland)
- "PROPAGATING UPDATES BETWEEN LINKED DATASETS OF DIFFERENT SCALES" Haunert, J-H. (Germany) and Sester, M.
- "A STUDY ON INCREMENTAL OBJECT-ORIENTED MODEL AND ITS SUPPORTING ENVIRONMENT FOR CARTOGRAPHIC GENERALIZATION IN MULTI-SCALE SPATIAL DATABASE" Wu, F. (China), Dang, L., Lu, X. and Su, W.
- "METHODOLOGY FOR DEVELOPING A DATABASE OF GEOMETRIC PATTERNS TO BETTER SUPPORT ON-THE-FLY MAP GENERALIZATION" Sabo, M. N. (Canada), Bédard, Y., Bernier, E. and Cardenas, A.

Session 2 "STRUCTURAL ANALYSIS IN MAP GENERALISATION"

- "A COMBINED AUTOMATED GENERALIZATION MODEL BASED ON THE RELATIVE FORCES BETWEEN SPATIAL OBJECTS" Joubran Abu Daoud, J. (Israel) and Doytsher, Y.
- "THE AUTOMATIC GENERALIZATION OF POINT CLUSTER BASED ON THE SPATIAL KNOWLEDGE ACQUEST" Liu, Y. (China) and Zhai, J.
- "USAGE OF PRINCIPAL COMPONENT ANALYSIS IN THE PROCESS OF AUTOMATED GENERALISATION" Burghardt, D. (Switzerland) and Steiniger, S.
- "SPATIAL STRUCTURES TO SUPPORT AUTOMATIC GENERALISATION" Regnaud, N. (United Kingdom)

Session 3 "ANALYSIS TECHNIQUES IN MAP GENERALISATION"

- "AN APPROACH TO INTELLIGENT SELECTION OF SETTLEMENTS BASED ON ROUGH SET AND CLUSTERING" Song, Y. (China)
- "PROPAGATION OF THE DISPLACEMENTS AND DEFORMATIONS DURING A GENERALISATION PROCESS" Duchêne, C. (France) and Legrand, C.
- "THE USE OF EPSILON-CONVEX AREA FOR ATTRIBUTING 'BENDS' ALONG A CARTOGRAPHIC LINE" Mitropoulos, V. (Greece), Androniki, X. and Byron, N.
- "THE APPLICATION OF MATHEMATICAL MORPHOLOGY AND PATTERN RECOGNITION TO BUILDING POLYGON" Huilian, W. (China), Fang, W., Hongyan, D., Haizhong, Q., Qi, H. and Linlin, Z.

Session 4 "GENERALISATION OF NETWORKS"

- "ROAD LINE CLASSIFICATION FOR CARTOGRAPHIC GENERALIZATION: A NEURAL NET APPROACH" García Balboa, J.L. (Spain) and Ariza López, F.J.
- "RURAL AND URBAN ROAD NETWORK GENERALIZATION DERIVING 1:250,000 FROM 1:1250" Chaudhry, O. (United Kingdom) and Mackaness, W. A.
- "GRAPH BASED APPROACH FOR RECOGNITION OF PATTERNS AND IMPLICIT INFORMATION IN ROAD NETWORKS" Heinze, F. (Germany), Sester, M. and Anders, K.
- "MAP GENERALIZATION OF ROAD NETWORKS: CASE STUDY FROM NORWEGIAN SMALL SCALE MAPS" Bjørke, J.T. (Norway) and Isaksen, E.
- "GENERALISING OS MASTERMAP® TOPOGRAPHIC BUILDINGS AND ITN ROAD CENTRELINES TO 1:50 000 SCALE, USING A SPATIAL HIERARCHY OF AGNETS, TRIANGULATION AND TOPOLOGY" Revell, P. (United Kingdom), Regnaud, N. and Thom, S.

Session 5 "THEMATIC CONSIDERATIONS IN MAP GENERALISATION"

- "A METHODOLOGY FOR AUTOMATED GENERALIZATION OF GEOLOGICAL AND SOIL MAPS" Steiniger, S. (Switzerland) and Weibel, R.
- "MODELLING RELATIONS FOR CATEGORICAL MAPS" Neun, M. (Switzerland) and Steiniger, S.

- "A SYSTEM FOR AUTOMATED GENERALISATION OF TOPOGRAPHIC MAPS" Yan, H. (China) and Li, Z.
- "ANALYTIC GENERALIZATION OF TOPOGRAPHIC DATA" Itzhak, E. (Israel), Yoeli, P. and Doytsher, Y.

Session 6 "MULTI DIMENSIONAL MAP GENERALISATION TECHNIQUES"

- "3D BUILDING GENERALIZATION" Kada, M. (Germany)
- "UTILISATION OF ARTIFICIAL INTELLIGENCE METHODS AND NEUROFUZZY ALGORITHMS IN THE PROCESS OF DIGITAL ELEVATION MODEL GENERALISATION" Olszewski, R. (Poland)
- "CARTOGRAPHIC GENERALIZATION USING PRIMITIVES AND CONSTRAINTS" Brenner, C. (Germany) and Sester, M.
- "GENERALIZATION OF URBAN CITY-BLOCK (BUILT-UP AREAS) MAPS IN RASTER MODEL" Ureña Cámara, M.A. (Spain) and Ariza López, F.J.

Session 7 "GOVERNMENT AGENCIES AND MAP GENERALISATION"

- "AUTOMATING GENERALIZATION - TOOLS AND MODELS" Lee, D. (USA) and Hardy, P.
- "THE U.S. CENSUS BUREAU'S GENERALIZATION CONCEPTS IN A MODERNIZED DATA STRUCTURE ENVIRONMENT" Fowler, D. (USA)
- "GENERALISATION WITHIN NMO'S IN THE 21st CENTURY" Stoter, J. (The Netherlands)
- "THE CREATION OF A NATIONAL MULTISCALE DATABASE FOR THE UNITED STATES CENSUS." McMaster, R.B. (USA), Galanda, M., Schroeder, J. and Koehnen, R.

THEME 10: CARTOGRAPHY AND SATELLITE IMAGERY FOR THE MANAGEMENT OF NATURAL RESOURCES AND THE ENVIRONMENT.

Session 1

- "MULTI-TEMPORAL SPATIAL MODELLING OF NOXIOUS WEEDS DISTRIBUTION USING HISTORICAL REMOTE SENSING IMAGERY" Metternicht, G. (Australia) and Robinson, T.
- "THE APPLICATION OF REMOTE SENSING TO INFORMATIVE STUDIES ON LINEAR WORKS" Rodríguez, F. (Spain), González, A. and Mariñas, D.
- "FEASIBILITY OF THE INTERNATIONAL RADIOASTRONOMY CENTRE OF VENTSPILS UNIVERSITY COLLEGE FOR SUPPLYING SATELLITE IMAGES IN LATVIA" Bargamp, I. (Latvia) and Veckalns, V.
- "DEVELOPING A METHODOLOGY FOR MONITORING ANTHROPOGENIC PRESSURES ON NATURE CONSERVATION SITES" Hazeu, G. (The Netherlands) and Mucher, S.

Session 2

- "HYPER SPECTRAL DATA CLASSIFICATION BY OBJECT-ORIENTED APPROACH FOR THE MANAGEMENT OF URBAN LANDSCAPE" Galli, A. (Italy) and Malinverni, E.S.
- "RURAL BUILDINGS STUDY AND CHARACTERIZATION THROUGH QUICKBIRD SATELLITE IMAGES ANALYSIS" Armesto González, J. (Spain), Gil Docampo, M.L. and Cañas Guerrero, I.
- "SERVIOLA. A SPANISH EARTH OBSERVATION SYSTEM." Rodríguez Gómez, D. (Spain)

Session 3

- "USING MACHINE LEARNING ALGORITHMS FOR LAND COVER CLASSIFICATION OF IKONOS IMAGERY" Albanese, F. (Italy), Caprioli, M. and Tarantino, E.
- "APPLICATION OF A HYBRID CLASSIFIER TO DISCRIMINATE MEDITERRANEAN CROPS AND FORESTS. DIFFERENT PROBLEMS AND SOLUTIONS." Serra, P. (Spain), Moré, G. and Pons, X
- "CONTRIBUTION OF CLASSICAL AND ROBUST PRINCIPAL COMPONENT ANALYSIS TO DEPTH ESTIMATION IN COASTAL ENVIRONMENTS." Castillo López, E. (Spain), Bayarri, V., Castillo, E., Ferrer, R., Pereda, R., Sánchez, J., deLuis Ruiz, J.M. and Ruiz, M.

Session 4

- "ASSESSING THE SUCCESS OF WATERSHED REHABILITATION PRACTICES IN THE RIO LAJA BASIN, MEXICO" Tofflemire, A. (Canada) and Mersey, J.E.
- "DEVELOPMENT OF A 3D GEOREFERENCED GROUNDWATER MODEL FOR SALINITY MANAGEMENT" Fraser, D. (Australia) and Lee, D. (H. J.)
- "M3FLOOD: AN INTEGRATED SYSTEM FOR FORECASTING, ALERTING AND MANAGING HYDRAULIC EMERGENCY" Erena Arrabal, M. (Spain), Toledano, F., Tirelli, L., Montesinos, S., Garcia, P., Mazzeo, S., Fernández, L. and Peter Cox, J.
- "LAND USE AND COVER CARTOGRAPHY IN GALICIA" Marcial Díaz Manso, J. (Spain), Barcia Noia, B.; Martín Rosón, A. and Aller González, D.

Session 5

- "RAPID CARTOGRAPHY FOR HUMANITARIAN AID" González, L.M. (Spain)
- "INTEGRATION OF ENVIRONMENTAL INFORMATION INTO A SATELLITE ORTHO-IMAGING SYSTEM" López-Pantoja Lamarca, A. (Spain), Vega Montilla, J. and Leal Eizaguirre, S.
- "USING GIS TECHNIQUES TO MAP ENVIRONMENTAL ZONES IN MOUNTAIN FRAGILE AREAS LOCATED AT THE CUESTAS LANDFORMS OF BRAZIL: A CASE STUDY AT SAO PEDRO COUNTY, SAO PAULO STATE." Rios, L. (Brazil) and Marujo Ferreira, M.F.
- "ETHNOCARTOGRAPHY APPLIED TO ENVIRONMENTAL ISSUES" Araujo de Almeida (Vasconcellos), R. (Brazil), Gavazzi, R. and Andrade Carvalho, A.L.

Session 6

- "REMOTE SENSING IN AFRICA: MAPPING APPROACH AND PERSPECTIVES" Tchindjang, M. (Cameroon), Nghonda, J.P., Makak, J.S., Menga, V.F., Nziengui, M. and Edou, M
- "CARTOGRAPHY AND MONITORING OF THE FIVE WORLD HERITAGE SITES OF THE DEMOCRATIC REPUBLIC OF CONGO USING SATELLITE IMAGERY" De Maeyer, P. (Belgium), De Temmerman, L., Defourny, P., Dewasseige, C., Van Coillie, S. and Vansteenvoort, L.
- "INTEGRATION OF RMM (RAIN MONITORING BY METEOSAT) AND SVNC VEGETATION MONITORING BY NOAA/NDVI TROLS IN EVALUATING AGRO-PASTORAL SEASONS AND ZONES AT RISK IN THE SAHELIAN ECOLOGICAL ZONE OF NORTH NIGERIA" Olatunji Qudus, T. (United Kingdom)
- "MAPPING OF PROTECTED AREAS EVOLUTION IN CAMEROON FROM THE BEGINNING TO 2000: LESSON TO LEARN AND PERSPECTIVES. Tchindjang, M. (Cameroon), Nankam, A., Banga, C.R. and Makak, J.S.

Session 7

- "INTEGRATING ECOLOGICAL TOOLS WITH GIS: MODELLING ANIMAL DISPERSAL" Chekuimo, G.H. (Cameroon)
- "DEVELOPMENT OF DIGITAL CARTOGRAPHIC DATABASE FOR MANAGING OF THE ENVIRONMENT AND NATURAL RESOURCES IN THE REPUBLIC OF SERBIA" Protic, D. (Serbia) and Nestorov, I.
- "CONTRIBUTION OF REMOTE SENSING TO THE STUDY OF THE FRACTURING MOUNTS OF THE TRARAS, ORANIE NORTH-WESTERN." Zine éddine Saad, A. (Algiers) and Zerga, M.

THEME 11: MAPS AND THE INTERNET.

Session 1 "MAPS AND THE INTERNET: WEB MAPPING SERVICES & SVG"

- "WEB MAPPING SERVICES: A TOOL FOR THEMATIC MAPS" Cammack, R.G. (USA)
- "ADDING FUNCTIONALITIES TO WMS-WCS CLIENTS: DOWNLOAD AND ANIMATION" Maso, J. (Spain) and Pons, X.
- "A GEOGRAPHICAL INFORMATION SYSTEM FOR SPATIAL DATA ANALYSIS BASED ON THE SCALABLE VECTOR GRAPHICS STANDART" Pinheiro de Sales Cabral, I. (Brazil), Fernández, J.H. and Garcia Gonçalves, L.M.
- "SVG IN ENVIRONMENTAL APPLICATIONS" Pinheiro de Sales Cabral, I. (Brazil), Garcia Gonçalves, L.M., Pegado de Medeiros, J. and Farias do Amaral, R.

Session 2 "MAPS AND THE INTERNET: APPLICATIONS"

- "MAPPING WATER RESOURCE DATA" Feuerherdt, C. (Australia)
- "WEB MAP SERVER AS DSS TOOL FOR TERRITORIAL PLANNING OF THE AIRPORTS SURROUNDING AREAS" Ruiz, M. (Spain), Seguí Pons, J.M., Ramon Molinas, J., Marti Penas, J.E. and Martínez Reynés, M.R.
- "THE USE OF THE INTERNET TO PUBLISH GEOINFORMATION FROM COFFEE ENVIRONMENTS OF BRAZIL" Oliveira de Souza, V.C. (Brazil), Grossi Chquiloff Vieira, T., Ramos Alves, H.M. and Rodrigues Oliveira, M.L.
- "WEB-BASED KNOWLEDGE INFORMATION SYSTEM FOR ABORIGINAL LAND MANAGEMENT" Mao, L. (Canada), Rakia, M. and Mioc, D.

Session 3 "MAPS AND THE INTERNET: USER ISSUES"

- "MAPS AND GEOINFORMATION ON THE INTERNET OR HOW DO PEOPLE FEEL ABOUT E-DEMOCRACY?" Brande-Lavridsen, H. (Denmark)
- "A CARTOGRAPHIC VISUALISATION INTERFACE FOR SPATIAL INFORMATION RETRIEVAL" Purves, R. (Switzerland), Khirmi Syed, A., Yang, B. and Weibel, R.
- "REGIONAL INTERNET SERVICE FOR SPATIAL INFORMATION" Gajos, M. (Poland) and Maczewski, K.

- "GEOGRAPHIC IR SYSTEMS: USER REQUIREMENTS AND EVALUATION" Bucher, B. (France), Clough, P. and Purves, R.
- "DEVELOPING CARTOGRAPHIC SKILLS THROUGH PROGRAMMING ON GeoVRML" Gómez Lahoz, J. (Spain), Sánchez Martín, N., Arias Pérez, B. and González Aguilera, D.

Session 4 "MAPS AND THE INTERNET: INTEGRATED SYSTEMS"

- "A SYSTEM FOR INTERNET-ENABLED GEOSPATIAL DATA ACCESS" Nierman, A. (USA)
- "REACHING THE CITIZEN THROUGH INTERNET CARTOGRAPHY: THE CASE OF LA CORUÑA" Royo Llobet, J. (Spain) and Peña Penabad, J.M.
- "LIMITATIONS AND POTENTIALS OF REAL-TIME TRAFFIC VISUALIZATION" Goldsberry, K. (USA)
- "REAL TIME PRECISE POSITIONING APPLIED TO CARTOGRAPHY FOR PDA" Quintanilla, I. (Spain), Talaya, J., Valero, B., Grau, J. and Gómez, D.

Session 5 "MAPS AND THE INTERNET: THEORY"

- "MAPS FOR PUBLIC INFORMATION: DOES INTERNET MAPPING MEET USER NEEDS AND ACHIEVE GOOD CARTOGRAPHIC STANDARDS?" Forrest, D. (United Kingdom)
- "GEO-COMMUNICATION AND WEB-BASED INFRASTRUCTURE. GEO-COMMUNICATION UNDER THE INFLUENCE OF AN INFRASTRUCTURAL ENVIRONMENT." Brodersen, L. (Denmark)
- "CARTOGRAPHIC INFORMATION ARCHITECTURE - DESIGNING ONLINE PRESENTATION OF CARTOGRAPHIC INFORMATION TO FACILITATE USER UNDERSTANDING" Pucher, A. (Austria)
- "WEB CARTOGRAPHY WEB-ENABLED GEOGRAPHIC INFORMATION SYSTEMS (GIS) - NEW POSSIBILITIES, NEW CHALLENGES" Black, M. (Australia) and Cartwright, W.
- "THE ROLE OF CARTOGRAPHY WITHIN DISTRIBUTED SOFTWARE SYSTEMS: WHAT CAN WE CONTRIBUTE? HOW CAN WE PROSPER?" Cooper, M. (Switzerland), Sykora, P. and Hurni, L.

Session 6 "INTERNET MAPS AND GIS"

- "REALIZATION OF THE "DIGITAL JAPAN" CONCEPT AND CHALLENGE FOR NEW BUSINESS MODELS" Kubo, N. (Japan), Ohno, H., Takakuwa, N., Fujimurah., and Ishizeki, T.
- "WEB COVERAGE AND GEOREFERENCED IMAGE SERVICE FOR THE SPATIAL DATA INFRASTRUCTURE OF THE REPUBLIC OF CUBA" Capote Fernández, J.L. (Cuba), Cruz Iglesias, R., González Suárez, G., Osmani, Herrera González and Becerra Lugones, L.
- "SIGTPI: A GIS BASED ON WEB TO THE MANAGEMENT OF PUBLIC TELEPHONY" Cruz Iglesias, R. (Cuba), Capote Fernández, J.L., González Suárez, G., Osmani, Herrera González and Becerra Lugones, L.
- "WebEIEL: A WEB-BASED GIS FOR THE E.I.E.L." Luaces, M.R. (Spain), Brisaboa, N.R., Paramá, J.R. and Viqueira, J.R.

Session 7 "MAPS AND THE INTERNET: CYBERCARTOGRAPHY - THE NEXT STEP"

- "A DECADE OF MAPS AND THE INTERNET" Peterson, M.P. (USA)
- "CYBERCARTOGRAPHY: THEORY AND PRACTICE" Taylor, D. R. F. (Canada), Eddy, B., Pulsifer, P. and Lauriault, T.
- "EXPLORING SOUND DESIGN IN CYBERCARTOGRAPHY" Caquard, S. (Canada), Brauen, G. and Wright, B.
- "CYBERCARTOGRAPHY AND HUMAN-COMPUTER INTERACTION: NEW WINE IN OLD BOTTLES?" Parush, A. (Canada) and Tsuji, B.

THEME 12: INTERNET LOCATION-BASED SERVICES, MOBILE MAPPING AND NAVIGATION SYSTEMS.

Session 1

- "MOBILE GEOSPATIAL DATA COLLECTION - CONCEPTS AND FIRST EXPERIENCES" Reinhardt, W. (Germany), Kandawasvika, A., Mäs, S. and Wa, F.
- "GEOMOSSES - CARTOGRAPHIC REQUIREMENTS FOR LBS ON RIVER CRUISING" Asamer, H. (Austria) and Riedl, A.

Session 2

- "THE PRESENT SITUATION OF VEHICLE NAVIGATION TECHNIQUES IN CHINA AND THE MULTI-TOPOLOGICAL FORMATION AND ROUTE COMPUTING OF NATIONAL NAVIGATION MAP" Dong, Z. (China), Ailong, L. and De, Z.
- "INTEGRATION OF GPS, PDA AND DIGITAL CAMERA TO LOOK FOR GEODETICS REFERENCE POINTS" Quintanilla, I. (Spain), Valero, B., Gallego, A. and Sierra, A.
- "PARSING WALKING DIRECTIONS USING SIDEWALK NETWORKS" Noaki, K. (Japan) and Arikawa, M.

Session 3

- "FROM MAP USE RESEARCH TO USABILITY RESEARCH IN GEO-INFORMATION PROCESSING" Van Elzakker, C.P.J.M. (The Netherlands)
- "THE IMPORTANCE OF BEING RELEVANT" Reichenbacher, T. (Germany)
- "THE MANY DIMENSIONS OF MAP USE" Carter, J.R. (USA)
- "A WORKING CONCEPTUAL FRAMEWORK OF UBIQUITOUS MAPPING" Morita, T. (Japan)

Session 4

- "ASSESSING TWO APPROACHES TO A WAY FINDING TASK USING A MOBILE DEVICE" Armich, D. (USA), Vila-Ruiz, J. and Carter, J.R.
- "EXTENT AND EFFECTIVENESS OF MAP ABSTRACTION FOR COMMUNICATING ROUTES IN A LBS" Gartner, G. (Austria) and Radoczky, V.
- "GRAPH BASED METHODS FOR LOCALISATION BY A SKETCH" Kopczyński, M. (Germany)

Session 5

- "A CASE STUDY OF COMBINED TEXT AND ICON PLACEMENT" Harrie, L. (Sweden), Ringberg, P. and Zhang, Q.
- "ADAPTING MAP ICONS FOR MOBILE USERS" Nivala, A. (Finland) and Sarjakoski, L.T.
- "A WEB BASED AND TIME DEPENDENT VISUALISATION OF AN EVENT CALENDAR" Hampe, M. (Germany), Hose, K., Hatger, C. and Katterfeld, C.
- "NECESSARY CONDITIONS FOR CARTOGRAPHIC COMMUNICATION AND NAVIGATION WITH GUIDE MAPS" Wakabayashi, Y. (Japan)

Session 6

- "A USER ASSESSMENT FOR DEVELOPING OPTIMAL CARTOGRAPHIC REPRESENTATION MODELS WITHIN AN AUSTRALIAN MOBILE LOCATION-BASED SERVICES TRAVEL APPLICATION." Wealands (nee Urquhart), K. (Australia), Cartwright, W. and Miller, S.
- "A TOOL FOR THE DESIGN OF ADAPTATION MECHANISMS FOR MOBILE CARTOGRAPHIC SYSTEMS" Tsoulos, L. (Greece) and Goulimis, E.
- "THE CITYINFO PEDESTRIAN INFORMATION SYSTEM - AN EXPERIMENT WITH CONTENT CREATION AND PRESENTATION TECHNIQUES" Paelke, V. (Germany), Elias, B. and Hampe, M.
- "TWO METHODS FOR VISUALIZING AND REFRESHING IN MOBILE MAPS FOR PEDESTRIANS" Yan, C. (China), Chen, J., Zhao, X., Jiang, J., Zhao, R.

THEME 13: MARINE CARTOGRAPHY, NAVIGATION AND OCEAN MAPPING.

Session 1

- "NEW EXPERIENCES IN NAUTICAL CHART PRODUCTION IN THE INSTITUTO HIDROGRÁFICO DE LA MARINA" Chans, A. (Spain) and Millan, J.
- "NAUTICAL CHARTING IN SMALLER COUNTRIES WITH SHORT COASTLINE - TROUBLES AND ADVANTAGES" Karnicnik, I. B.Sc.Geod. (Slovenia) and Radovan, D. Sc.Cart
- "UNLOCKING THE MARINE DATA TREASURE CHEST" Pepper, J. (United Kingdom)
- "THE USE OF RADAR SAR DATA FOR OIL SPILL DETECTION AND MAPPING" Bouchaib, S. (Italy), Smara, Y., Salvatori, L., Del Frate, F. & Lichtenegger, J.

Session 2

- "ENC AND SDI: CONVERGENCE ISSUES" Delgado Fernández, T. (Cuba) and Huet, M.
- "ELECTRONIC NAVIGATIONAL CHARTS - PROGRESS AND OBSTACLES TO WORLDWIDE COVERAGE" Barbor, K. (IHB Monaco)
- "THE NEXT EDITION OF IHO TRANSFER STANDARD S-57 (EDITION 4.0)" Alexander, L. (USA) and Huet, M.
- "MULTISCALE ENC DATA MANAGEMENT ON EASTERN COAST OF THE ADRIATIC SEA AS AN ARCHIPELAGIC SEA AREA" Duplanëia Leder, T. (Croatia) and Lapaine, M.

Session 3

- "SOME SEMIOTICAL ASPECTS OF SYMBOLS CONSTRUCTION IN NAUTICAL NAVIGATIONAL CHARTS (AT THE EXAMPLE OF UKRAINIAN LARGE-SCALE NNC)" Gordyeyev, A. (Russia) and Martschenko, O.
- "INDIAN ELECTRONIC NAVIGATIONAL CHARTS (ENC) PROGRAMME: MARCHING TOWARDS SELF RELIANCE" Singh, U. K. (India) and Kumar, R
- "MULTILINGUAL LEXICON OF UNDERSEA FEATURE TYPES" Márton, M. (Hungary) and Dutkó, A.

- "THE POLITICAL PROBLEM OF BI- AND MULTILINGUAL MARITIME AND LACUSTRINE NAMES IN MAPS" Kadmon, N. (Israel)

THEME 14: NATIONAL AND REGIONAL ATLASES. ELECTRONIC ATLASES. THEMATIC AND MULTIMEDIA CARTOGRAPHY.
Session 1 "HEALTH AND SOCIAL DATA"

- "THE DESIGN OF AN INTERACTIVE ATLAS FOR SOCIAL ASSISTANCE IN THE STATE OF PARANA - BRAZIL" Delazari, L. (Brazil) and Pimentel Cintra, J.

- "VISUALIZING AND ANALYZING PUBLIC HEALTH DATA USING VALUE-BY-AREA." Holt, J.B. (USA) and Sui, D.Z.

- "ATLAS OF NATURAL AND TECHNOLOGICAL HAZARDS AND RISKS OF EMERGENCIES IN THE TERRITORY OF THE RUSSIAN FEDERATION" Komedchikov, N.N. (Russia)

Session 2 "LAND AND ENVIRONMENT"

- "HYDROGEOLOGICAL ATLASES OF THE GEOLOGICAL AND MINING INSTITUTE OF SPAIN" Vega, L. (Spain) and del Pozo, M.

- "MULTIMEDIA ATLAS OF ECOLOGICAL ENVIRONMENT IN FUJIAN: DESIGN AND IMPLEMENTATION" Shulei, Z. (China) and Yufen, C.

- "ATLAS OF THE LANDS OF RUSSIA: CONCEPT, METHODS OF REALISATION, CONTENT" Melnikov, A.V. (Russia), Samratov, U.D., Poroshina, L.N., Berlyant, A.M. and Loiko, P.F.

- "LANDSCAPE, CLIMATE, NATURAL EXTREMES - THREE THEMES FOR ATLAS PROJECTS BUT THOUSANDS OF SIMILARITIES AND DIFFERENCES" Vozenilek, V. (Czech Republic)

Session 3 "CENSUS AND DEMOGRAPHY"

- "THE NATIONAL HISTORIC GEOGRAPHIC INFORMATION SYSTEM" McMaster, R.B. (USA), Lindberg, M. and Adams, J.S.

- "RURAL TOURISM ATLAS OF CASTILLA LA MANCHA" Sancho Comíns, J. (Spain) and Panadero Moya, M.

- "OVERVIEW OF THE CENSUS ATLAS OF THE UNITED STATES" Suchan, T.A. (USA), Brewer, C.A. and Tait, A.

- "DEMOGRAPHIC ATLAS OF ALBANIA: PILOT PROJECT FOR A NATIONAL ATLAS INFORMATION SYSTEM IN A SOUTH EAST EUROPEAN TRANSFORMATION COUNTRY" Asche, H. (Germany), Doka, D., Berxholi, A. and Siemer, J.

Session 4 "NATIONAL ATLAS (1)"

- "ATLAS INFORMATION SYSTEM AUSTRIA - AN ONLINE ATLAS CONCEPT UTILISING A CARTOGRAPHIC "RESTRICTIVE FLEXIBLE" APPROACH" Gartner, G. (Austria), Kriz, K. and Spanring, C.

- "PRACTICE FOR ELECTRONIC ATLAS PROJECTS IN CHINA" Fu, R. (China) and Qingyun, D.

- "THE ATLAS OF CANADA AFTER 100 YEARS - USER-CENTRED DEVELOPMENT AND EVOLUTION" Kramers, R.E. (Canada)

- "THE THIRD NATIONAL ATLAS OF BELGIUM" De Maeyer, P. (Belgium), Donnay, J., Lambrecht, M., Thomas, I., Van der Haegen, H., Van Doninck, B., Van Hecke, E. and Vrielinck, S.

Session 5 "NATIONAL ATLAS (2)"

- "ANExxi: THE XXI CENTURY NATIONAL ATLAS OF SPAIN" Romera, C. (Spain) and Del Campo, A.

- "TECHNICAL ASPECTS OF THE OBJECT GENERATION PROCESS IN THE SISTEMA DE INFORMACIÓN DEL ATLAS NACIONAL DE ESPAÑA (SIANE)" Alonso, J.J. (Spain) and Del Campo García, A.

- "GERMANY IN MAPS - A MULTIPURPOSE TOOL BOX" Hanewinkel, C. (Germany) and Tzschaschel, S.

- "DESIGNING A NEW CULTURAL ELECTRONIC ATLAS OF GREECE." Myridis, M. (Greece), Lafazani, P., Karanikolas, N. and Ramnalis, D.

- "ATLAS BOOKS + GIS = GKS, 'GEOGRAPHICAL KNOWLEDGE SYSTEM' - NEW INTERACTIVE WEB SERVICE LAUNCHED BY THE NATIONAL ATLAS OF SWEDEN" Cramér, M. (Sweden) and Arnberg, U.

Session 6 "METHODOLOGICAL APPROACHES"

- "LANGUAGE AND PLACE NAMES IN NATIONAL AND REGIONAL ATLASES. METHODOLOGICAL CONSIDERATIONS AND PRACTICAL USE EXEMPLIFIED BY NEW ATLASES FROM THE EASTERN PART OF EUROPE" Jordan, P. (Austria)

- "SMART LEGEND - SMART ATLAS!" Sieber, R. (Switzerland), Schmid, C., and Wipf, A.

- "THE CONCEPT "DURABILITY" ON THE NATIONAL ATLASES" Aranaz del Río, F. (Spain)

- "METHODOLOGY FOR THE ESTABLISHMENT OF INDICATORS OF QUALITY IN THE ATLASES" De Luis Ruiz, J.M. (Spain), Ferrer Torio, R., Pereda García, R. and Ruiz Bedia, M.L.

Session 7 "GIS AND ATLAS DATA"

- "SIGpaS - AN ELECTRONIC HEALTH ATLAS FOR THE DOMINICAN REPUBLIC" Kunzel, W. (Republica Dominicana)
- "DATA WAREHOUSING IN MAPPING AND GIS" Ramirez, J.R. (USA)
- "MODEL OF DATA FOR THE ELABORATION OF THEMATIC CARTOGRAPHY: MAP OF FORMS OF THE RELIEF" Mejias Vera, M.A. (Spain) and Vera Galván, J.R.
- "THE ATLAS AS A PORTAL FOR DATA DISCOVERY IN THE GDI: PROSPECTS AND DEVELOPMENTS" Aditya, T. (The Netherlands) and Kraak, M.

Session 8 "OTHER ATLAS"

- "THINKING MODULAR - THE "PLUGGABLE ATLAS"" Huber, S. (Switzerland), Jeller, P. and Ruegsegger, M.
- "THE ATLAS OF CANADA. 100 YEARS AND MORE" Williams, D. (Canada)
- "THE UNIFORM EUROPEAN UNION AS A MOSAIC OF UNEQUAL REGIONS. GEOGRAPHIC APPROACH - CARTOGRAPHIC DOCUMENTATION." Myrdis, M. (Greece), Lafazani, P., Karanikolas, N. and Rannalis, D.

THEME 15: VIRTUAL MODELS, VISUALISATION, ANIMATION AND CARTOGRAPHY.

Session 1 "VISUALIZATION TO SUPPORT PLANNING & DECISION-MAKING"

- "COMMUNITY COLLABORATIVE DECISION-MAKING TOOLS: DETERMINING THE EXTENT OF "GEOGRAPHICAL DIRTYNESS" FOR EFFECTIVE DISPLAYS" Cartwright, W. (Australia), Pettit, C., Nelson, A. and Berry, M.
- "MODELING AND VISUALIZING POPULATION DENSITY FOR THE FIRE AND RESCUE SERVICES IN HELSINKI, FINLAND" Krisp, J. (Finland), Henriksson, R. and Hilbig, A.
- "GEOVISUALISATION METHODS FOR PARTICIPATORY SPATIAL PLANNING" Baranowski, M. (Poland) and Andrzejewska, M.
- "INTERACTIVE WEB-BASED VISUALIZATION OF GEOSPATIAL INFORMATION FOR SUSTAINABLE DEVELOPMENT DECISION MAKING" Siekierska, E. (Canada) and Williams, P.

Session 2 "VISUALIZATION SYSTEMS AND STANDARDS"

- "MODELLING VIRTUAL REALITY OF GEOGRAPHICAL SPACE METROPOLITAN REGION OF SANTIAGO OF CHILE." Llanos, P. (Chile)
- "MODEL-DRIVEN CONTENT MANAGEMENT FOR WEB-BASED 3D GEOINFORMATION SERVICES" Nebiker, S. (Switzerland), Schuetz, S. and Wuest, T.
- "AN APPLICATION FRAMEWORK FOR INTERACTIVE VISUALIZATION OF EARTH PHENOMENA" Camargo, N.F. (Brazil) and de Carvalho, C. A. P.
- "USABILITY TESTS AND RENDERING METHODS IN REAL-TIME 3D GEOVISUALISATION" Nielsen, A. (Denmark)

Session 3 "HUMAN-CENTERED GEOVISUALISATION"

- "CAN YOU SEE WHAT I SEE? HELPING INDIVIDUALS BENEFIT FROM THE INSIGHTS OF INTERDISCIPLINARY COLLABORATION" Griffin, A.L. (Australia)
- "VISUAL REPRESENTATION OF GEOSPATIAL METADATA IN THE PROCESS OF SELECTING DATASETS" Ahonen-Rainio, P. (Finland)
- "GEOVISUALIZATION DESIGN FOR EPIDEMIOLOGY: A FRAMEWORK" Robinson, A.C. (USA)
- "EXPLORATION OR COMMUNICATION: DEFINING EFFECTIVE VISUALISATIONS FOR SPATIAL DATA" Chen, X. (Australia) and Bishop, I.D.
- "THEMATIC RELEVANCE AND PERCEPTUAL SALIENCE OF DYNAMIC GEOVISUALIZATION DISPLAYS" Fabrikant, S.I. (USA) and Goldsberry, K.

Session 4 "VR 2 - SYSTEM AND TECHNOLOGY"

- "ADVANCE IN MULTI-MEDIA MAPPING" Ramirez, J.R. (USA)
- "THE POTENTIAL OF 3D-DISPLAYS FOR THE VISUALISATION OF GEO-VIRTUAL ENVIRONMENTS" Schratt, A. (Austria) and Riedl, A.
- "VIRTUAL MODELS COMBINING CARTOGRAPHY AND HIGH-RESOLUTION TEXTURE MAPPED AND RANGE DATA" Ortiz, P. (Spain) and Sánchez, H.
- "3D VISUALIZATION THROUGH GEOVRML: A COMPROMISE BETWEEN MEASUREMENT AND REPRESENTATION" González Aguilera, D. (Spain), Gómez Lahoz, J., Arias, Pérez, B. and Sánchez Martín, N.

Session 5 "NAVIGATING AND EXPLORING 3D SCENES"

- "REAL-TIME VISUALIZATION OF GEOSPATIAL FEATURES THROUGH THE INTEGRATION OF GIS WITH A REALISTIC 3D TERRAIN DYNAMIC VISUALIZATION SYSTEM" Hernández, L. (Spain), Taibo, J., Seoane, A., López, R., Jaspe, A. and Varela, A.
- "MOVING BEYOND NOVELTY: CREATING EFFECTIVE 3D FLY-OVER MAPS" Harrower, M. (USA) and Sheesley, B.C.
- "INSTITUTIONAL CARTOGRAPHY VISUALIZER OF THE NATIONAL GEOGRAPHICAL INSTITUTE OF SPAIN" Carbajo, M. (Spain) and Del Campo, A.
- "INTERACTIVE REAL-TIME VR CARTOGRAPHY" Buchroithner, M. (Germany), Gindele, M., Habermann, K. and Hetze, B.

Session 6 "SPACE-TIME VISUALIZATION"

- "DYNAMIC VISUALIZATION VARIABLES IN ANIMATION TO SUPPORT MONITORING OF SPATIAL PHENOMENA" Blok, C.A. (The Netherlands)
- "SEMANTIC AND PRAGMATIC ASPECT OF THE TRANSMITTING INFORMATION BY ANIMATED MAPS" Opach, T. (Poland)
- "GEO-VISUALIZATION FOR THE ANALYSIS OF SPATIAL TIME SERIES: FILLING GAPS IN THE TASK SPACE COVERAGE" Andrienko, G. (Germany) and Andrienko, N.
- "ENTITIES-CARTOGRAPHIC METHOD OF SELECTION OF STATIC AND DYNAMIC VARIABLES FOR TEMPORAL CARTOGRAPHIC ANIMATIONS" Dukaczewski, D. (Poland)

Session 7 "EXPLORATORY GEOVISUALIZATION"

- "VISUALIZING THE ICA: A CONTENT-BASED APPROACH" Skupin, A. (USA) and De Jongh, C.
- "APPROACHES OF USER-SPECIFIC EXPLORATIVE GEOVISUALISATION" Swienty, O. (Germany)
- "INTERACTIVE CARTOGRAPHIC ANIMATIONS - ANALYSIS FUNCTIONALITY IN A WEB ENVIRONMENT" Midtbø, T. (Norway) and Boros, R.

Session 8 "VR 1 - APPLICATIONS"

- "TOURING "GREAT ROADS" OF HUMAN ACTIVITY: USING GEOGRAPHIC VISUALIZATION TO EXPLORE HISTORICAL LANDSCAPES" Baber, R.M. (USA) and Brown, J.S.
- "ON SOME 4-D VISUALIZATION STRATEGIES IN ELECTRONIC MAP" Du, Q. (China) and Jiang, W.
- "EXPLORING FUTURE LANDSCAPES USING VIRTUAL ENVIRONMENTS" Feuerherdt, C. (Australia) and Cartwright, W.
- "ALTERNATIVE 3D VISUALISATION METHODS IN VIRTUAL CARTOGRAPHY: THE CASE OF ANCIENT TEMPLE OF POSEIDON, SOUNIO, GREECE" Dinakis, L. (Greece), Panagiotis,tziaxris and Karanikolas, N.

Session 9 "3D - THEORY, METHODS & IMPLEMENTATION"

- "EXPRESSIVE VIRTUAL 3D CITY MODELS" Doellner, J. (Germany) and Buchholz, H.
- "A VISUALIZATION METHOD BASED ON FOVEATION" Çöltekin (Coltekin), A. (Finland)
- "USING COMPUTER GAMING TECHNOLOGY TO EXPLORE HUMAN WAYFINDING FOR NAVIGATING URBAN LANDSCAPES" Germanchis, T. (Australia), Cartwright, W. and Pettit, C.
- "'YTHANVIEW' VISUALIZING AND ESTUARY AND VIRTUAL FIELDWORK AT THE YTHAN ESTUARY, SCOTLAND, UK" Green, D.R. (United Kingdom) and Bojar, K.
- "COMMUNICATING FLOOD RISKS TO THE PUBLIC USING A DIGITAL VISUALIZATION PROCESS" Basic, F. (Australia), Cartwright, W. and Handmer, J.

THEME 16: HISTORY OF CARTOGRAPHY.

Session 1

- "ARTHUR H. ROBINSON AND THE FABRIC OF CARTOGRAPHY" Olson, J. M. (USA)
- "TWO HUNDRED YEARS OF CARTOGRAPHY OF CATALONIA MADE IN FRANCE: INTENTIONS AND OUTCOMES (1633-1835)" Montaner, C. (Spain)
- "NATIONAL TOPOGRAPHIC MAPPING IN THE DIGITAL TRANSITION" Varanka, D. (USA)
- "THE HISTORY OF MAPPING OF KYOTO-BETWEEN PICTURE AND SURVEY" Hasegawa, K. (Japan)

Session 2

- "POTENTIAL OF VIRTUAL 3D-FACSIMILES - EXEMPLIFIED BY THE EARTH GLOBE OF GERARD MERCATOR (1541)" Hruby, F. (Austria), Plank, I. and Riedl, A.
- "THE LEGACY OF COLONIALISM ON MAPPING IN AFRICA: WITH FOCUS ON NIGERIA." Olomo, O. (United Kingdom)
- "NEW DATA ON RUSSIAN USE OF CAPTAIN MALASPINA'S EXPEDITION (1791-1793) MATERIALS FOR IMPROVING OF THE MAPS IN THE ATLAS OF THE SOUTHERN SEA (KRUZENSHTERN, 1823-1826)" Postnikov, A. (Russia)
- "MAPPING OF CZECH LANDS DURING THE 18TH CENTURY" Miksovsky, M. (Czech Republic) and Zimová, R.

Session 3

- "WOMEN IN MARINE CARTOGRAPHY OF RUSSIA" Smirnov, V. G. (Russia)
- "THE EARLIEST MAPS OF THE CAMINO DE SANTIAGO" Hernando, A. (Spain)
- "THE HISTORICAL EVOLUTION OF THE WAYS IN SPAIN: A CARTOGRAPHIC ANALYSIS BASED IN GIS" Manzano-Agugliaro, F. (Spain) and Manzano-Agugliaro, G.
- "GROWTH AND DEVELOPMENT OF INDIAN CARTOGRAPHY IN HISTORICAL PERSPECTIVE" Singh, K.P. (India) and Singh, A.

Session 4

- "THE HISTORY OF CARTOGRAPHY IN BRAZIL: A FIELD OPEN TO RESEARCH" Andrade Gomes, M.d.C. (Brazil)
- "A MAP AND ITS COPY OF SIMON VAN DER STEL'S EXPEDITION TO NAMAQUALAND (1685): AN ENQUIRY INTO THEIR VISUAL VALUES" Alma Maré, E. (South Africa) and Dubourg Glatigny, P.
- "THE "ALBUM ROYAUME DE NAPLES": A EXAMPLE OF THE SPANIARD MILITARY CARTOGRAPHY IN THE EARLY 18TH CENTURY" San Antonio, C. d. (Spain)

Session 5

- "THE CARTOGRAPHY IN THE STATE OF THE RIO GRANDE DO SUL; FIVE HUNDRED YEARS OF HISTORY" Florencio de Souza, S. (Brazil), Barbosa da Silva, J.L., dos Santos da Rocha, R. and da Silva Celestino, V.
- "A "CARTOGRAPHICAL" RECONSTRUCTION OF SPAIN IN THE XVI CENTURY FROM THE COSMOGRAPHY OF HERNANDO COLON" Aranaz del Río, F. (Spain)
- "THE ATLAS OF EL ESCORIAL" Crespo Sanz, A. (Spain)
- "THE HISTORY OF FORMING AND STUDY OF THE CARTOGRAPHIC COLLECTIONS OF THE RUSSIAN STATE LIBRARY" Zinchuk, L. (Russia) and Kotelnikova, N.
- "BRITISH MILITARY SURVEYORS IN PALESTINE AND SYRIA, 1840-1841" Goren, H. (Israel)

THEME 17: WORLD AND AERONAUTICAL CARTOGRAPHY AND MILITARY MAPPING.

Session 1

- "PROGRESS TOWARDS THE COMPLETION OF GLOBAL MAP: A NEW INTERNATIONAL MAP OF THE WORLD" Taylor, D.R.F. (Canada)
- "CARTOGRAPHIC DEVELOPMENTS FOR MILITARY SITUATION AWARENESS" Ferland, Y. (Canada)
- "GEOGRAPHIC SUPPORT DURING OPERATIONS" Cortés, M. C. (Spain)

Session 2

- "CARTOGRAPHIC VISUALIZATION OF MILITARY MAPS AT MID-SCALE" Torun, A. (Turkey) and Ulubay, A.
- "THE QUALITY OF NEWSPAPER CARTOGRAPHY IN WARTIME: THE UNITED STATES OF AMERICA AGAINST IRAQ." De Wolf, N. (Belgium), Van der Gucht, W., Vansteenvoort, L., Brondeel, M. and De Maeyer, P.

THEME 18: MOUNTAIN CARTOGRAPHY.

Session 1

- "TERRAIN ASSESSMENT IN A MOUNTAINOUS ENVIRONMENT - A SWISS AUSTRIAN CONTEMPLATION" Kriz, K. (Austria)
- "PERSPECTIVE VIEWS AND PANORAMAS IN PRESENTATION OF RELIEF FORMS IN POLAND" Rudnicki, W. (Poland)
- "INVESTIGATING THE EFFECTS OF 2D AND 3D REPRESENTATIONS ON HUMAN WAYFINDING IN MOUNTAINS" Wood, M. (United Kingdom), Pearson, D., Miller, D. and Calder, C.

Session 2

- "DEVELOPMENT OF A WEB-MAPPING EXPERT TOOL FOR HAZARD ASSESSMENT IN ALPINE VALLEYS" Trau, J. (Switzerland), Stern, B., Gogu, R. and Humi, L.
- "PHOTOGRAMMETRIC METHODS FOR THE OBTAINING OF DETAILED CARTOGRAPHY IN ACTIVE MOUNTAIN GLACIERS." De Sanjosé Blasco, J.J. (Spain), Atkinson Gordo, A.D.J., De Pablo, N.A. and Salvador Franch, F.

- "GEOWARN - A WEB-BASED ATLAS INFORMATION SYSTEM FOR VOLCANIC MONITORING" Hurni, L. (Switzerland), Gogu, R., Jenny, B., Terribilini, A. and Freimark, H.

THEME 19: TOURIST CARTOGRAPHY

Session 1 "HIKING MAPS"

- "EVOLUTION OF THE TOURIST CARTOGRAPHY IN PERU" Mori Segura, M.L. (Peru) and Barreda Sandoval, J.
- "PLANNING HIKES VIRTUALLY - HOW USEFUL ARE REALISTIC 3D VISUALIZATIONS?" Bleisch, S. (Switzerland)
- "INTERACTIVE HIKING MAP OF YOSEMITE NATIONAL PARK" Williams, J. (Switzerland)
- "DESIGN OF THE OPTIMUM CONTENT AND THE SYMBOL CODE OF BIKING MAPS" Kudrnovsky (Czech Republic), E., Letal, A. and Sedlak, P.

Session 2 "NEW DEVELOPMENTS"

- "TOURISTIC CARTOGRAPHY OF I.C.V." Caletrio Arcos, M. (Spain)
- "DESIGN AND IMPLEMENTATION OF TOURIST WEBGIS BASED ON J2EE" Wang, J. (China) and Li, C.
- "NEW DEVELOPMENT ON TOURIST CARTOGRAPHY" Li, B. (China) and Liu, J.
- "TOURISTIC MAPS. THE CHALLENGE OF USING ART IN THE DIGITAL ERA" Fiori, S.R. (Brazil)

Session 3 "IMAGES FOR TOURIST MAPS"

- "REMOTE SENSING DATA APPLIED TO REALISTIC TERRAIN DEPICTION ON TOURIST MAPS." Drachal, J. (Poland)
- "THE ESSENTIAL IMAGE IS THE GUIDE" Ingalls, R.D. (USA)
- "THE SCIENTIFIC FUNDAMENTALS OF CREATION THE ROAD MAPS FOR TOURIST'S APPOINTMENT." Vereshchaka, T.V. (Russia) and Larichkina, N.A.
- "GIS OF THE CROATIAN CITIES AT THE ADRIATIC COAST" Franges, S. (Croatia) and Zupan, R.

THEME 20: CARTOGRAPHY AND CHILDREN. EDUCATIONAL PRODUCTS.

Session 1 "NEW CHALLENGES FOR CARTOGRAPHY AND CHILDREN"

- "IDENTIFYING SPATIAL COMPETENCE OUTCOMES FOR SOUTH AFRICAN SECONDARY SCHOOLS" Innes, L. (South Africa)
- "AGENDA 21, CARTOGRAPHY AND CHILDREN IN A CHANGING WORLD" Anderson, J.M. (Canada)
- "CARTOGRAPHIC LANGUAGE AND PRODUCTION OF KNOWLEDGE: TEACHING LOCAL GEOGRAPHY WITH A MUNICIPAL SCHOOL ATLAS" Doin de Almeida, R. (Brazil)

Session 2 "GIS, NEW CARTOGRAPHIC TECHNOLOGY AND CHILDREN"

- "BRINGING GIS TO SCHOOLS - CHALLENGE OR CHILDS PLAY?" Olivier, A. (South Africa)
- "PRIMARY CHILDREN'S COLLABORATIVE CARTOGRAPHY: COMMUNICATION AND MAPPING PROCESSES." Owen, D. (United Kingdom)
- "VISUALIZATION OF AN URBANIZING AND GLOBALIZING WORLD WITH THE CITYSCAPE METAPHOR" Ito, K. (Japan), Ota, H., Okabe, T. and Fukushima, K.
- "TEACHERS' OPINIONS OF THE INCORPORATION OF GIS IN THE UPPER SECONDARY SCHOOLS IN FINLAND" Ratinen, I. (Finland) and Johansson, T.

Session 3 "EDUCATIONAL CARTOGRAPHY"

- "LEGIBILITY AND LEARNING EFFECTIVENESS OF THE "NATIONAL ATLAS OF ISRAEL FOR SCHOOLS"" Soffer, T. (Israel), Shachar, A. and Tzionit, S.
- "USING OPEN SOURCE TECHNOLOGIES TO PROVIDE A TEMPLATE FOR PUBLISHING SCHOOL ATLASES ON THE WEB" da Silva Ramos, C. (Brazil), Cartwright, W. and Doin de Almeida, R.
- "EDUCATIONAL CARTOGRAPHY: MAPPING A THEORETICAL FRAMEWORK" Wiegand, P. (United Kingdom)
- "CHILDREN'S CARTOGRAPHY: PAST, PRESENT AND FUTURE" Trifonoff, K.M. (USA)
- "MULTIMEDIA GEOGRAPHIC SCHOOL ATLAS" BUILDING CITIZENSHIP AMONG CHILDREN AND YOUTH" Kally de Almeida Rex, H.K. (Brazil), Kyioe Ito, H. and Fontes Barreto, W.

Session 4 "TEACHING AND LEARNING WITH MAPS"

- "READING THEMATIC MAPS IN ARGENTINE AND HUNGARIAN SCHOOLS: EXPERIENCES IN BOTH COUNTRIES" Reyes Nuñez, J. J. (Hungary), Juliarena de Moretti, C.E., Garra, A.M., Gallé, E., Rey, C.A., Alves de Castro, M.V. and Dibiase, A.S.
- "A CONTROLLED MAPPING EXPERIMENT ON TEACHING EARTH SCIENCE CONCEPTS" Livni, S. (Israel) and Bar, V
- "GEOGRAPHY EDUCATION AND THE MAP-MAKING IN THE ELEMENTARY SCHOOL" Vanzella Castellar, S.M (Brazil)

THEME 21: GENDER AND UNDER-REPRESENTED GROUPS AND CARTOGRAPHY.

Session 1

- "GENDER COMPARISON OF UNDERSTANDING AND INFORMATION EXTRACTING FROM SCHOOL ATLASES IN BULGARIAN SCHOOLS" Bandrova, T. (Bulgaria)
- "TWO BARRIERS TO CARTOGRAPHICAL PRESENTATION OF "UNDER-REPRESENTED" GROUPS WITHIN THE GLOBAL POPULATION" Krzywicka-Blum, E. (Poland)
- "WOMEN IN CARTOGRAPHY (BOTSWANA CASE)" Mmasepatela Phalaagae, L. (Botswana)

Session 2

- "COMMUNITY MAPPING: CHANGING LIFESTYLES THROUGH PARTICIPATION" Perkins, C. (United Kingdom)
- "THE ROLE OF THE WOMAN IN THE NATIONAL ATLAS OF SPAIN" Abad, M.D. (Spain) and Sánchez-Ortiz, P.
- "THE RESEARCH ON REPRESENTATION OF WOMEN MAP" Dongmei, Y. (China), Luohai, D. and Liguó, Z.

THEME 22: MAPS FOR THE BLIND AND VISUALLY IMPAIRED.

Session 1 "TACTILE MAPS: USE AND PRODUCTION"

- "FEELING OUR WAY: TACTILE MAP USER REQUIREMENTS- A SURVEY" Rowell, J. (United Kingdom) and Ungar, S.
- "LANDMARKS FOR NAVIGATORS WHO ARE VISUALLY IMPAIRED" Tsuji, B. (Canada) and Lindgaard, G.
- "NEEDS OF THE TACTILE MAP MAKERS" Lobben, A. (USA)
- "TACTILE MAPS FOR PRESCHOOL CHILDREN WITH VISUAL IMPAIRMENT: THE CURRICULUM" Hirn, H. (Finland)
- "TACTILE MAP PRODUCTION FOR THE VISUALLY IMPAIRED USER: EXPERIENCES IN LATIN AMERICA" Reinaldo Gimenes de Sena, C.C. (Brazil) and Ribeiro do Carmo, W.

Session 2 "TACTILE MAPPING: PERCEPTUAL & COGNITIVE APPROACHES"

- "TACTUALIZATION' OF SPATIAL INFORMATION: TOWARDS A PERCEPTUAL-COGNITIVE APPROACH TO MAP DESIGN" Ungar, S. (United Kingdom), Rowell, J., Jehoel, S. and McCallum, D.
- "A SCIENTIFIC APPROACH TO TACTILE MAP DESIGN: THE MINIMUM ELEVATION OF TACTILE MAP SYMBOLS" Jehoel, S. (United Kingdom), Rowell, J. and Ungar, S.
- "THE UNIQUENESS OF SYMBOL PROFILE AS A DESIGN VARIABLE IN TACTILE CARTOGRAPHY" Dinar, S. (United Kingdom) and Rowell, J.
- "OBTAINING GEOGRAPHICAL INFORMATION FROM A VIRTUAL MAP WITH A HAPTIC MOUSE" Jansson, G. (Sweden) and Pedersen, P.
- "MAPS FOR THE BLIND AND VISUALLY HANDICAPPED" Singhal, V. (India)

Session 3 "TACTILE MAPPING: TECHNOLOGICAL INNOVATION"

- "PRODUCTION OF COMPUTER-AIDED TACTILE MAPS FOR THE BLIND" Ozagac, S. (Turkey)
- "A MAP-READER SOFTWARE FOR VISUALLY IMPAIRED PEOPLE" Busnadiago Gutiérrez, C. (Spain)
- "EXTENDING TACTILE MAP DISPLAYS INTO MULTIMODAL AUDITORY AND HAPTIC INTERFACES" Jacobson, R.D. (Canada)

THEME 23: PLANETARY CARTOGRAPHY.

Session 1 "PLANETARY MAPS AND THEIR REVISION"

- "PRECISE TOPOGRAPHIC AND THEMATIC MAPS OF PLANET MARS" Albertz, J. (Germany), Wählich, M., G. Neukum, Stephan and Harmut
- "EXPERIENCE WITH SHAPE-FROM-SHADING FOR THE REFINEMENT OF SPATIAL DATA FOR MARS CARTOGRAPHY FROM MARS EXPRESS HRSC IMAGERY" Dorrer, E. (Germany), Mayer, H., Ostrovskiy, A., Reznik, S., Renter, J. and Neukum, G.
- "PHOBOS AND DEIMOS - A NEW MAP IN THE SERIES OF MULTILINGUAL RELIEF MAPS OF TERRESTRIAL PLANETS AND THEIR

MOONS" Shingareva, K.B. (Russia), Krasnopevtseva, B. V., Leonenko, S.M., Fleis, M.E., Buchroithner, M.F., Waelder, O. and Stooke, P.
 - "RE Mapping PHOBOS USING MARS EXPRESS HRSC / SRC IMAGES" Duxbury, T.C. (USA), Hoffman, H., Oberst, J., Giese, B., Kirk, R., Neukum, G. and the HRSC Co-I Team

Session 2 "PLANETARY THEMATIC MAPPING"

- "GEOLOGIC MAPPING OF VOLCANIC AND AEOLIAN FEATURES ON MARS USING THEMIS DATA" Zimbelman, J.R. (USA) and Shockey, K.M.
 - "DATA AND METHODOLOGY USED ON THE GEOLOGICAL CARTOGRAPHY OF THE ELYSIUM REGION, MARS." de Pablo, M.A. (Spain), Dohm, J. and Márquez, A.
 - "NEW ELEMENTAL ABUNDANCE MAPS INTEGRATING OPTICAL AND GEOCHEMICAL DATA ON THE LUNAR SURFACE" Kaydash, V. (Ukraine), Shkuratov, Y., Omelchenko, V., Stankevich, D.
 - "ANALYSIS OF MERCURIAN CRATERS BY MEANS OF CARTOGRAPHIC METED" Kozlova E.A. (Russia), Sitnikov, B.D., Rodionova, J.F. and Shevchenko, V.V.

Session 3 "GIS FOR PLANETARY MAPPING AND EDUCATION"

- "GIS "SOLAR SYSTEM PLANETS" CASE STUDY OF THE ARCGIS PLANET DATA MODE" Cherepanova, E. (Russia), Leonenko, S.M. , Karachevtseva, I.P. and Shingareva, K.B.
 - "COMPILATION OF A GLOSSARY OF INTERNATIONAL TERMS RELATED TO PLANETARY CARTOGRAPHY" Shingareva, K. (Russia), Zimbelman, J.R. and Dorrer, E.
 - "PLANETARY MAPS IN EDUCATION" Hargitai, H. (Hungary), Bérczi, S. and Shingareva, K.

THEME 24: RESEARCH AND DEVELOPMENT: NEW PRODUCTS AND CARTOGRAPHIC SYSTEMS.

Session 1

- "INTEROPERABILITY GPS AND GALILEO: WHERE WE ARE? NEEDS AND BENEFITS FOR CARTOGRAPHY." Hernández Arifo, S. (Spain) and Cocho González, D.
 - "LIDAR APPLICATIONS TO ROCK FALL HAZARD ASSESMENT IN ALL DE NÚRIA" Ruiz, T. (Spain), Navarro, M. And Arnó, G.
 - "USING CAC AND GIS TO MAP THE PREVALENCE OF POVERTY AND ACCESS TO BASIC SERVICES ACROSS THE REGION OF THE WESTERN CAPE PROVINCE" Pillay, R. (South Africa)
 - "TOWARDS A GEOGRAPHIC INFORMATION SYSTEM ENVIRONMENT FOR MAPPING THE WORLDS WATER RESOURCES" Katzberger, G. (Austria), Pucher, A. and Kriz, K.
 - "CARTOGRAPHY DATABASE AND GIS: NOT ENEMIES, BUT ALLIES!" Hardy, P. (USA) and Kressmann, T.

Session 2

- "A MATCHING APPROACH FOR THE INTEGRATION, CHANGE DETECTION AND ADAPTATION OF HETEROGENEOUS VECTOR DATA SETS" Von Goessel, G. (Germany)
 - "DTM GENERATION FROM LIDAR DATA FOR HIDRAULIC MODELS" Gomez, A. (Spain), Serrano, J. and Casalprim, D.
 - "GENERATION OF A DTM BASED ON LIDAR DATA FOR THE DEFINITION OF HYDRAULIC MODELS" Alfonso Gómez Molina et al.

Session 3

- "THE MAKING OF A NATIONAL CORE GEO-INFORMATION DATASET. FROM CONCEPT TO VISUALISATION AND ONLINE DELIVERY" Bakker, N. J. (The Netherlands)
 - "AN APPROACH TO COMPREHENSIVE FLEET MANAGEMENT BY MEANS OF A WEB SERVICES PLATFORM" Hernández-Bajo, A. (Spain)
 - "CARTA DIGITAL. SPANISH MILITARY GIS" Palacio, J. (Spain)
 - "NEW CARTOGRAPHIC PRODUCTS IN ENGINEERING APPLICATIONS" López-Cuervo y Medina, S. (Spain)

Session 4

- "MENTAL MAPPING OR "SOFT-GIS" IN URBAN PLANNING. GIS-BASED CARTOGRAPHIC INSPIRATION FOR PHYSICAL PLANNING" Szegő, J. (Sweden)
 - "MAPPING ON THE FLY: THE INTEGRATION OF USER-DEFINED MAP PROJECTION WITHIN DIFFERENT EXISTING PROJECTIONS IN AN OVERNATIONAL CONTEXT" Surace, L. (Italy), Cima, V. and Maseroli, R.
 - "THE MAPBEAN PROJECT" Hardisty, F. (USA)
 - "DIGITAL GLOBES - FROM VIRTUAL TO REAL" Riedl, A. (Austria)

Session 5

- "CARTOGRAPHIC SYMBOLS FOR LANDMINE HAZARDS AND HUMANITARIAN DEMINING" Kostelnick, J. (USA), Dobson, J., Egbert, S. and Dunbar, M.
- "NAVIGATION IN SPACE, TIME AND TOPIC - INTERDEPENDENCIES OF SPATIAL, TEMPORAL AND THEMATIC NAVIGATION IN TWO DIMENSIONAL INTERACTIVE MAPS" Neumann, A. (Switzerland)
- "MAP SYMBOL BREWER - A NEW APPROACH FOR A CARTOGRAPHIC MAP SYMBOL GENERATOR" Schnabel, O. (Switzerland)
- "AUTOMATED DERIVATION OF TOWN PLANS FROM LARGE SCALE DATA IN A CARTOGRAPHIC PRODUCTION SYSTEM" Petzold, I. (Switzerland), Burghardt, D. and Bobzien, M.

THEME 25: HISTORY OF COLONIAL CARTOGRAPHY IN THE 19TH AND 20TH CENTURIES.

Session 1 "AUSTRALASIA"

- "COLONIAL CARTOGRAPHY OF THE NETHERLANDS EAST INDIES 1816-1942" Ormeling, F. (The Netherlands)
- "SUMATRA UNVEILED. THE CONTRIBUTION OF THE GEOGRAPHICAL SOCIETY OF THE NETHERLANDS IN THE MAPPING OF SUMATRA, 1877-1879" Van den Brink, P. (The Netherlands)
- "'PETERMANN'S GEOGRAPHISCHE MITTEILUNGEN' AND THE HIGH MOUNTAIN MAPPING OF ASIA IN THE 19TH CENTURY" Demhardt, I.J. (Germany)
- "AUSTRALIAN PLATES IN JOHN ARROWSMITH'S LONDON ATLAS OF UNIVERSAL GEOGRAPHY" Prescott, D. (Australia)

Session 2 "CENTRAL AFRICA"

- "HENRY MORTON STENLEY - EXPLORATION AND MAPPING OF THE CONGO RIVER (1874-1877)- SOLVING THE LAST GREAT MYSTERY OF AFRICAN CONTINENT-" Slukan Altic, M. (Croatia)
- "BOUNDARY SURVEYS IN THE LATE 19TH AND EARLY 20TH CENTURIES" Collier, P. (United Kingdom)
- "THE EVOLUTION OF THE CARTOGRAPHY OF KATANGA (D.R.CONGO) DURING THE BELGIAN COLONIAL PERIOD." De Maeyer, P. (Belgium), Vanoutrive, T., Vansteenvoort, L., Collard C. and De Temmerman, L.
- "MAPPING OF MAIN ARTERY NETWORK AND COLONIAL PORTERAGE IN CAMEROON (1900-1940)" Tchindjang, M. (Cameroon), Joseph Tanga Onana, Zephania Nji Fogwe, Athanase Bopda, Cornelius Mbifung Lambi and Esseck David

Session 3 "SOUTHERN AFRICA"

- "THE ARROWSMITH AND S.D.U.K. MAPS OF SOUTH AFRICA OF 1834 - SOURCE MATERIAL AND CARTOGRAPHICAL SIGNIFICANCE" Liebenberg, E. (South Africa)
- "THE IMPERIAL MAP CAPE COLONY AND LATER MILITARY MAPS OF THE CAPE COLONY, SOUTH AFRICA." Board, C. (United Kingdom)
- "MAPPING THE NAMIB-DESERT: THE "BERGRECHTSKARTE" OF 1920" Moser, J. (Germany)

THEME 26: OTHER THEMES: CARTOGRAPHY AND ADVERTISING, MAPS IN THE MEDIA, CENSUS CARTOGRAPHY, CADASTRAL MAPS, THREE DIMENSIONAL MAPPING, NEW CONCEPTS IN CARTOGRAPHIC SYMBOLOLOGY, SPACE AND TIME IN GIS, TOPONYMY.

Session 1 "TOPONYMY AND MAPS"

- "TOPONYMY THESAURUS. ITS CARTOGRAPHIC INTEGRATION IN A BILINGUAL REGION" Santamarina Fernández, A. (Spain), Navaza Blanco, G., García Cancela, X. and García Pazos, F.
- "AUTOMATIC INFORMATION SEARCHING SYSTEM OF THE STATE CATALOG OF GEOGRAPHICAL NAMES." Zhukovsky, V. (Russia) and Boginsky, V.
- "TOPONYMIC DATABASES ON DIGITAL CARTOGRAPHY. TOOLS AND UTILITIES." Parella, M. (Spain)
- "TOPONYMY STRUCTURATION FOR MEANING RETRIEVAL" Ferland, Y. (Canada)
- "THE THEMATIC MAPS DERIVED OF THE MICROTOPYMY AS GEOGRAPHIC INFORMATION SOURCE." Rodríguez Gomila, R. (Spain) and Grimalt Gelabert, M.

Session 2 "TIME AND MAPS"

- "GEOREFERENCING THE 1930'S FLIGHT OF RUIZ DE ALDA OVER THE SEGURA RIVER BASIN" Urmeneta, B. (Spain) and Barberena, A.
- "MAPPING THE LAST FORTY YEARS OF SWEDISH URBAN DEVELOPMENT" Szegö, J. (Sweden)
- "VISUALIZATION OF EVENTS IN TIME-SERIES OF REMOTE SENSING DATA" Turdukulov, U. (The Netherlands) and Kraak, M-J.

- "TIMELINES, TEMPORAL RESOLUTION, TEMPORAL ZOOM AND TIME GEOGRAPHY" Kraak, M-J. (The Netherlands)

Session 3 "CENSUS AND BOUNDARIES"

- "CENSUS CARTOGRAPHY; A CASE STUDY OF KENYA CENSUS TAKING" Odhiambo E.A. (Kenya) and Ndilinge, M.
- "BOUNDARIES. FIELDWORKS AND GIS MANAGEMENT." Torres, M. (Spain)
- "MAP IMAGES IN AMERICAN POLITICAL RHETORIC" Edsall, R.M. (USA)

Session 4 "GEOPHYSICAL AND GEOLOGICAL MAPS AND TOPOGRAPHICAL NETWORKS"

- "GEOPHYSICAL MAPS OF SPAIN" Martínez Solares, J.M. (Spain), Gil, A., Socias, I., Mezcuca, J., Martín Martín, A.J. and Marin, V.
- "SPANISH GEOLOGICAL MAPPING AT SCALE 1:50.000: FROM THE PAPER TO THE GEOINFORMATICS." Iniesto, M.J. (Spain)
- "FEATURES AND OPERABILITY OF THE AIRPORT TOPOGRAPHICAL CONTROL NETWORK IMPLEMENTED IN AENA AIRPORTS" López-Pantoja Lamarca, A. (Spain), Suárez Suárez, M. and Aranda Molina, T.
- "CONSTRUCTING THE NATIONAL IMAGERY BANK" Cristancho V, D.A. (Colombia)
- "A NEW APPROACH FOR REFINING THE GLOBAL STRATIGRAPHIC CHART" J. M. Pellé (Belgium), Ph. Rossi, Ph. De Maeyer and M. Brondeel
- "THE DIGITAL SOIL MAP OF WALLONIA (DSMW/CNSW)" Veron, PH. (Belgium), Bah , B., Bracke, CH. , Lejeune , PH, Rondeux , J., Bock, L. and Mokadem, A.I.

Session 5 "PROPERTY MATTERS"

- "LAND REGISTRY AS AN INSTRUMENT OF IDENTIFICATION AND PROTECTION OF THE PUBLIC PROPERTY" Requejo Liberal, J. (Spain)
- "USE OF DIGITAL HISTORICAL MAPS IN THE PROPERTY FORMATION OF SWEDEN" Qvist, E. (Sweden)
- "COMPILING, ORGANIZING, STRUCTURING AND PUBLISHING IN THE INTERNET THE URBAN PLANNING OF THE WHOLE GALICIA REGION" Álvarez Vicente, J. L. (Spain), Redondo Porto, A. and Fargas, J.
- "FAST AND LIABLE CARTOGRAPHY UPDATE USING EGNOS AND GALILEO" Toledo, M. (Spain)
- "SITMUN PROJECT (MUNICIPAL TERRITORIAL INFORMATION SYSTEM)" Zañartu Bezanilla, C. (Spain)

THEME 27: ORIENTEERING MAPS

Session 1

- "MAPPING STANDARD FOR SPRINT ORIENTEERING: STANDARDIZED COMPETITION MAPS FOR URBAN, PARK AND FOREST AREAS" Zentai, L. (Hungary)
- "ORIENTEERING MAPS IN SLOVENIA" Petrovic, D. (Slovenia)
- "THE ORIENTEERING MAPS PRODUCTION: QUALITY CONTROL" Muñoz Nieto, A. L. (Spain), Herrero Matías, M. and Vidal Triquell, M.
- "ORIENTEERING MAPS OF VIENNA - DATA ACQUISITION AND CARTOGRAPHIC DATA MODELLING" Ditz, R. (Austria) and Gartner, G.

THEME 28: GEOSPATIAL ANALYSIS AND MODELLING

Session 1

- "A FRAMEWORK FOR INTERACTIVE SEARCHING AND MAPPING OF PERSONAL SPATIAL INFORMATION" Shiraishi, Y. (Japan) and Arikawa, M.
- "VISUALIZATION OF SPATIO-TEMPORAL PATTERNS IN PUBLIC TRANSPORT DATA" Shrinivasan, Y.B. (The Netherlands) and Kraak, M.
- "MOBLOG BASED MAPPING WITH TRACK-BACKS ON SPATIO-TEMPORAL RELATIONS" Arikawa, M. (Japan), Hayashi, T. and Sezaki, K.
- "CLUSTERING DYNAMIC MAP OBJECTS BASED ON DENSITY MEASURES" Stefanakis, E. (Greece)

THEME 29: EARLY WARNING AND RISK MANAGEMENT.

Session 1

- "PREPARING AN ANSI STANDARD FOR EMERGENCY AND HAZARD MAPPING SYMBOLOGY" Dymon, U.J. (USA)
- "DISASTERS MAPPING IN ALGERIA AND MANAGEMENT USING G.I.S AND REMOTE SENSING TECHNOLOGIES" Smara, Y. (Algiers), Belhadj-Aissa, A. and Belhadj-Aissa, M.
- "USING REMOTE SENSING AND GIS FOR GLOBAL ASSESSMENT OF FIRE DANGER" Chuvieco, E. (Spain)
- "MAPS FOR COMPREHENSIVE RISK MANAGEMENT" Dransch, D. (Germany) and Walz, U.

Session 2

- "ENVIRONMENTAL MAPS' SERVER" Hradec, J. (Czech Republic)
- "THE DEVELOPMENT OF A SPATIAL FRAMEWORK TO IMPROVE SERVICE DELIVERY TO ORPHANS AND OTHER CHILDREN MADE VULNERABLE BY HIV/AIDS IN KWAZULU-NATAL, SOUTH AFRICA" Erskine, S. (South Africa)
- "A GIS TOOL FOR THE EVALUATION OF THE SEISMIC RISK: APPLICATION TO THE SEISMIC RISKS OF ALGIERS." Abdat, N. (Algeria), Aïmazighi, Z., Allili, T. and Beljoudi, H.

Session 3

- "HISTORICAL CARTOGRAPHY FOR NATURAL HAZARDS" Davoine, P. (France), Gensel, J. and Arnaud, A.
- "HISTORICAL MAPS PROMOTE RECENT FLOOD RISK RESEARCH -THE CASE OD THE UPPER ELBE RIVER" Schumacher, U. (Germany) and Witschas, S.
- "POVERTY MAPPING - A CASE STUDY OF KENYA" Odhiambo, E.A. (Kenya) and Ndilinge, M
- "GIS AS KEY TOOL IN THE ENVIRONMENTAL DECISION MAKING AT LOCAL LEVEL. THE CASE OF THE RIVER BASIN OF THE CORBONES" Joya Reina, M.d.P. (Spain)

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