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Policy on Environment in Danshuei Township, Taiwan -- Improving the Calibration of the MOLAND Urban Growth Model with Land-Use Information Derived from a Time-Series of Medium Resolution Remote Sensing Data -- Design of a Dynamic Land-Use Change Probability Model Using Spatio-Temporal Transition Matrix -- Forecasting Space-Time Land Use Change in the Paochiao Watershed of Taiwan Using Demand Estimation and Empirical Simulation Approaches -- Should Neighborhood Effect Be Stable in Urban Geosimulation Model? A Case Study of Tokyo -- A Fuzzy Cellular Automata Modeling Approach -- Accessing Urban Growth Dynamics in Linguistic Terms -- Computer-Based Methods for a Socially Sustainable Urban and Regional Planning - CoMStaR -- A Comparison of Evolutionary Algorithms for Automatic Calibration of Constrained Cellular Automata -- The Calculation Method of Heating and Cooling Energy Saving Potential in Urban District -- GIS-Based Estimation of Wetland Conservation Potentials in Europe -- G.I.S. to Support Environmental Sustainability in Manufacturing Areas. Case Study of the Apulian Region in Southern Italy -- Estimating and Classifying Spatial and Temporal Distributions of Flow Conditions for Fish Habitats by Using Geostatistical Approaches with Measured Flow and Fish Data -- Service Path Attribution Networks (SPANs): Spatially Quantifying the Flow of Ecosystem Services from Landscapes to People -- Facing the Archaeological Looting in Peru by Using Very High Resolution Satellite Imagery and Local Spatial Autocorrelation Statistics -- U-City: New Trends of Urban Planning in Korea Based on Pervasive and Ubiquitous Geotechnology and Geoinformation -- Settlement-Preference Patterns and Characteristics of Households in Urban Renewal Area -- Ontologies for Urban Regeneration Could Be Useful for Managing Cohesion Policies? -- The Effect of School Facility Allocation to City Center Development Base on Dynamic Spatial Structure Model -- A Fuzzy Reasoning Based Approach for Determining Suitable Paths between Two Locations on a Transport Network -- Assessing Macroseismic Data Reliability through Rough Set Theory: The Case of Rapolla (Basilicata, Southern Italy) -- Utilization of LiDAR and IKONOS Satellite Data for Security Hotspot Analysis Based on Realism of 3D City Model -- Towards 3D Tactical Intelligence Assessments for Crime Scene Analysis -- On the Estimation of Fire Severity Using Satellite ASTER Data and Spatial Autocorrelation Statistics -- Spatial Analysis of the 2008 Influenza Outbreak of Hong Kong -- Spatial Components in Disease Modelling -- Ordered Polyline Trees for Efficient Search of Objects Moving on a Graph -- Compactness in Spatial Decision Support: A Literature Review -- An Architecture and a Metamodel for Processing Analytic and Geographic Multilevel Queries -- Transferring Indicators into Different Partitions of Geographic Space -- A Model Driven Process for Spatial Data Sources and Spatial Data Warehouses Reconciliation -- ISATEM: An Integration of Socioeconomic and Spatial Models for Mineral Resources Exploitation -- Scale-Dependency and Sensitivity of Hydrological Estimations to Land Use and Topography for a Coastal Watershed in Mississippi -- Using MODIS Land-Use/Land-Cover Data and Hydrological Modeling for Estimating Nutrient Concentrations -- Geometrical DCC-Algorithm for Merging Polygonal Geospatial Data -- Geospatial Semantics: A Critical Review -- General Track on Advanced and Emerging Applications -- Modelling Sea Surface Salinity from MODIS Satellite Data -- Skeleton of a Multi-ribbon Surface -- Multi-criteria Optimization in GIS: Continuous K-Nearest Neighbor Search in Mobile Navigation -- The Application of Disturbance Observer to Propulsion Control of Sub-mini Underwater Robot -- On the Security Enhancement of an Efficient and Secure Event Signature Protocol for P2P MMOGs -- A

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ICCSA2010 was a successful event in the International Conferences on Computational Science and Its Applications (ICCSA) conference series, previously held in Suwon, South Korea (2009), Perugia, Italy (2008), Kuala Lumpur, Malaysia (2007), Glasgow, UK (2006), Singapore (2005), Assisi, Italy (2004), Montreal, Canada (2003), and (as ICCS) Amsterdam, The Netherlands (2002) and San Francisco, USA (2001). Computational science is a main pillar of most of the present research, industrial and commercial activities and plays a unique role in exploiting ICT - innovative technologies. The ICCSA conference series has been providing a venue to researchers and industry practitioners to discuss new ideas, to share complex problems and their solutions, and to shape new trends in computational science. ICCSA 2010 was celebrated at the host university, Kyushu Sangyo University, Fukuoka, Japan, as part of the university's 50th anniversary. We would like to thank Kyushu Sangyo University for hosting ICCSA this year, and for including this international event in their celebrations. Also for the first time this year, ICCSA organized poster sessions that present on-going projects on various aspects of computational sciences.