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activation of citizens and organizations in the area of ecological and
spatial awareness. By means of the new spatial media, the civil society is
given the opportunity to acquire information and knowledge on environmental
aspects. At the same time, they can collect new georeferenced data
independently, and contribute this data to the scientific community. The
purpose of this paper is to contribute a practical approach to promote a
sustainable biodiversity management and monitoring system in combination
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with an education system in Cabo Verde. The underlying theoretical framework for the design of the participatory Biodiversity Information System (BIS) is set by the critical GIS-debate. The project is based on educational approaches of environmental citizenship and spatial citizenship, which explicitly take into account aspects of participation, empowerment, and capacity building. The result of this paper aims at implementing a cooperation between citizens and scientists in the area of biodiversity in Cabo Verde.</dcterms:abstract>
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simulation modeling or remote sensing is applied. Yet, there is no agreed
procedure for doing that, probably because different problems require
different algorithms. We explored a variety of existing algorithms and
modified some of them to compare grid-based maps with categorical
attributes. A new algorithm based on the “expanding window” approach was
developed and compared to other known algorithms. The goal was to offer
simple and flexible procedures for comparing spatial patterns in grid based
maps that do not take into consideration object shapes and sizes of the
maps. The difference between maps was characterized by three values:
quantity, location, and distance between corresponding categories in the
maps. Combinations of these indices work as good criteria to quantify
differences between maps. A web-based survey was set up, in which
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arenas, visualization and visual methods are central. I show how
methodologies drawn from quantitative and qualitative approaches to
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often becomes an end product of scientific analysis, rather than an
exploration tool that scientists can use throughout the research life cycle.
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computer technologies, on the other hand, incorporate the legacy from the
conventional cartography. We have considered existing visualization-based
techniques for exploratory analysis of spatio-temporal data from two
perspectives: (1) what types of spatio-temporal data they are applicable to;
(2) what exploratory tasks they can potentially support.
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The technique investigation has been based on an operational typology of spatio-temporal data and analytical tasks we specially devised for this purpose. The result of the study is a structured inventory of existing exploratory techniques related to the types of data and tasks they are appropriate for. This result is potentially helpful for data analysts—users of geovisualization tools: it provides guidelines for selection of proper exploratory techniques depending on the characteristics of data to analyze and the goals of analysis. At the same time the inventory as well as the suggested typology of tasks could be useful for tool designers and developers of various domain-specific geovisualization applications. The designers can, on the one hand, see what task types are insufficiently supported by the existing tools and direct their creative activities towards filling the gaps, on the other hand, use the techniques described as basic elements for building new, more sophisticated ones. The application developers can, on the one hand, use the task and data typology in the analysis of potential user needs, on the other hand, appropriately select and combine existing tools in order to satisfy these needs.</dcterms:abstract>

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application. The smoothing removes noise introduced by undetected clouds and
poor atmospheric conditions. Ground reference measurements are usually
difficult to obtain due to the medium/coarse resolution of the imagery.
Hence, new filter algorithms are typically only (visually) assessed against
the existing smoother. The present work aims to propose a range of quality
indicators that could be useful to qualify filter performance in the absence
of ground-based reference measurements. The indicators comprise (i)
plausibility checks, (ii) distance metrics and (iii) geostatistical measures
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technique for analyzing large amounts of data, reducing many objects to a
limited number of clusters. Cluster visualization techniques aim at
supporting the user in better understanding the characteristics and
relationships among the found clusters. While promising approaches to visual
cluster analysis already exist, these usually fall short of incorporating
the quality of the obtained clustering results. However, due to the nature
of the clustering process, quality plays an important aspect, as for most
practical data sets, typically many di erent clusterings are possible. Being
aware of clustering quality is important to judge the expressiveness of a
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given cluster visualization, or to adjust the clustering process with re ned
parameters, among others. In this work, we present an encompassing suite of
visual tools for quality assessment of an important visual
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cluster algorithm, namely, the Self-Organizing Map (SOM) technique. We de ne, measure, and visualize the notion of SOM cluster quality along a hierarchy of cluster abstractions. The quality abstractions range from simple scalar-valued quality scores up to the structural comparison of a given SOM clustering with output of additional supportive clustering methods. The suite of methods allows the user to assess the SOM quality on the appropriate abstraction level, and arrive at improved clustering results. We implement our tools in an integrated system, apply it on experimental data sets, and show its applicability.</dcterms:abstract>

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offer a potentially powerful venue for improving student understanding. How
can we use words and pictures to help people understand how scientific
systems work, such as how a lightning storm develops, how the human
respiratory system operates, or how a bicycle tire pump works? This paper
presents a cognitive theory of multimedia learning which draws on dual
coding theory, cognitive load theory, and constructivist learning theory.
Based on the theory, principles of instructional design for fostering
multimedia learning are derived and tested. The multiple representation
principle states that it is better to present an explanation in words and
pictures than solely in words. The contiguity principle is that it is better
to present corresponding words and pictures simultaneously rather than
separately when giving a multimedia explanation. The coherence principle is
that multimedia explanations are better understood when they include few
rather than many extraneous words and sounds. The modality principle is that
it is better to present words as auditory narration than as visual on-screen
text. The redundancy principle is that it is better to present animation and
narration than to present animation, narration, and on-screen text. By
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as an objective form of knowledge – will first be reviewed as an object of
deconstruction. Second, a deconstructionist argument will explore the
textuality of maps, including their metaphorical and rhetorical nature.
Third, the paper will examine the dimensions both of external power and of
the omnipresence of internal power in the cartographic representation of
place. Cet article s'aventure dans des concepts post-modernes afin de
redéfinir la nature des cartes comme étant des représentations du pouvoir.
Longuement enracinées dans une épistémologie scientifique de la carte comme
forme objective de connaissance, les règles traditionnelles de la
cartographie seront d'abord revues en tant qu'objets de
&quot;déconstruction&quot;. Ensuite, les arguments d'un
&quot;déconstructioniste&quot; exploreront la &quot;textualité&quot; des
cartes, y compris leurs natures métaphorique et rhétorique. Enfin, l'article
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will respond in the future. In order to circumvent this problem, and until
more information on species accumulates, we reduce the diversity of species
to a diversity of functions and structures. The structures may be trees,
shrubs, herbs and grasses. The functions may be types of photosynthetic
processes, the capacity to minimize water loss and varying the timing of
growth. This book describes approaches and methods for defining these
functional types in ways that maximize our potential to predict accurately
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difficult to analyze and display. Since they are fundamental for decision
support in many application contexts, recently a lot of interest has arisen
toward data-mining techniques to filter out relevant subsets of very large
data repositories as well as visualization tools to effectively display the
results. In this paper we propose a data-mining system to deal with very
large spatio-temporal data sets. Within this system, new techniques have
been developed to efficiently support the data-mining process, address the
spatial and temporal dimensions of the data set, and visualize and interpret
results. In particular, two complementary 3D visualization environments have
been implemented. One exploits Google Earth to display the mining outcomes
combined with a map and other geographical layers, while the other is a
Java3D-based tool for providing advanced interactions with the data set in a
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offer a potentially powerful venue for improving student understanding. How
can we use words and pictures to help people understand how scientific
systems work, such as how a lightning storm develops, how the human
respiratory system operates, or how a bicycle tire pump works? This paper
presents a cognitive theory of multimedia learning which draws on dual
coding theory, cognitive load theory, and constructivist learning theory.
Based on the theory, principles of instructional design for fostering
multimedia learning are derived and tested. The multiple representation
principle states that it is better to present an explanation in words and
pictures than solely in words. The contiguity principle is that it is better
to present corresponding words and pictures simultaneously rather than
separately when giving a multimedia explanation. The coherence principle is
that multimedia explanations are better understood when they include few
rather than many extraneous words and sounds. The modality principle is that
it is better to present words as auditory narration than as visual on-screen
text. The redundancy principle is that it is better to present animation and
narration than to present animation, narration, and on-screen text. By
beginning with a cognitive theory of how learners process multimedia
information, we have been able to conduct focused research that yields some
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Unterstützung. Im Zentrum steht die Erforschung, Erklärung und Lösung von
bedeutsamen Problemstellungen. In diesem Buch werden Entwicklungsgeschichte
und Charakteristiken des PBL und seine lerntheoretischen Bezüge detailliert
vorgestellt und kritisch diskutiert. Der Schwerpunkt liegt bei der Analyse
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der Implementationsbedingungen. Ausgehend von bisherigen theoretischen und
empirischen Erkenntnissen sowie einer Evaluationsstudie an einer Institution
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Implementation von PBL formuliert und in einem praxisorientierten PBL-
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library of books and papers on system dynamics. This course site includes a
collection of papers and computer exercises entitled &amp;ldquo;Road
Maps,&amp;rdquo; as well as a collection of assignments and solutions that
were initially part of a guided study to system dynamics.&amp;nbsp; Note
that while the level of the course indicated in the upper right corner of
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lower rates. This gap leads to new challenges in the analysis process, since
analysts, decision makers, engineers, or emergency response teams depend on
information hidden in the data. The emerging field of visual analytics
focuses on handling these massive, heterogenous, and dynamic volumes of
information by integrating human judgement by means of visual
representations and interaction techniques in the analysis process.
Furthermore, it is the combination of related research areas including
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visualization, data mining, and statistics that turns visual analytics into
a promising field of research. This paper aims at providing an overview of
visual analytics, its scope and concepts, addresses the most important
research challenges and presents use cases from a wide variety of
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instructional material facilitates learning by directing cognitive resources
toward activities that are relevant to learning rather than toward
preliminaries to learning. One example of ineffective instruction occurs if
learners unnecessarily are required to mentally integrate disparate sources
of mutually referring information such as separate text and diagrams. Such
split-source information may generate a heavy cognitive load, because
material must be mentally integrated before learning can commence. This
article reports findings from six experiments testing the consequences of
split-source and integrated information using electrical engineering and
biology instructional materials. Experiment 1 was designed to compare
conventional instructions with integrated instructions over a period of
several months in an industrial training setting. The materials chosen were
unintelligible without mental integration. Results favored integrated
instructions throughout the 3-month study. Experiment 2 was designed to
investigate the possible differences between conventional and integrated
instructions in areas in which it was not essential for sources of
information to be integrated to be understood. The results suggest that
integrated instructions were no better than split-source information in such
areas. Experiments 3, 4, and 5 indicate that the introduction of seemingly
useful but nonessential explanatory material (e.g., a commentary on a
diagram) could have deleterious effects even when presented in integrated
format. Experiment 6 found that the need for physical integration was
restored if the material was organized in such a manner that individual
units could not be understood alone. In light of these results and previous
findings, suggestions are made for cognitively guided instructional
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hemeroby. Until now Germany's national land use monitoring systems have
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lacked an indicator to capture the naturalness respectively hemeroby of the landscape. Based on digital spatial data on land use (DLM-DE) and the mapping of potential natural vegetation, these indicators have now been estimated for the whole of Germany and illustrated cartographically. The indicators have been integrated into a land use monitoring system (IOER-Monitor). A hemeroby index that considers all hemeroby classes of a reference area (e.g. administrative unit and regular grid cell) is presented as well as an indicator named “Proportion of certain natural areas”. The results on hemeroby of several time-cuts can be used to estimate the cumulative impact of land use changes on the environmental status.</dcterms:abstract>
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developed to explore: (1) the extent to which specific skills were performed
by geographers in different professional positions, and (2) the value of and
anticipated demand for those skills from the perspective of employers.
Overall, respondents in the focus groups and both surveys emphasized the
need for general skills ranging from time management and writing ability to
information management and computer literacy. Employers also cited many
geographic skills as being vital for enhancing the work of professionals in
all types of organizations. Competency in field methods, the ability to work
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years. The persistent influence of land-use history and natural disturbance
on contemporary ecosystems has become apparent. Development of pattern
metrics has largely stabilized, and they are widely used to relate landscape
pattern to ecological responses. Analyses conducted at multiple scales have
demonstrated the importance of landscape pattern for many taxa, and
spatially mediated interspecific interactions are receiving increased
attention. Disturbance remains prominent in landscape studies, and current
research is addressing disturbance interactions. Integration of ecosystem
and landscape ecology remains challenging but should enhance understanding
of landscape function. Landscape ecology should continue to refine knowledge
of when spatial heterogeneity is fundamentally important, rigorously test
the generality of its concepts, and develop a more mechanistic understanding
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Recently, there have appeared a considerable number of publications devoted
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of instruction (different ways of facilitating human learning and
development) and when to use--and not use--each of those methods. It is
about how to help people learn better.   This volume provides a concise
summary of a broad sampling of new methods of instruction currently under
development, helps show the interrelationships among these diverse theories,
and highlights current issues and trends in instructional design. It is a
sequel to Instructional-Design Theories and Models: An Overview of Their
Current Status, which provided a &amp;quot;snapshot in time&amp;quot; of the status
of instructional theory in the early 1980s. Dramatic changes in the nature
of instructional theory have occurred since then, partly in response to
advances in knowledge about the human brain and learning theory, partly due
to shifts in educational philosophies and beliefs, and partly in response to
advances in information technologies. These changes have made new methods of
instruction not only possible, but also necessary in order to take advantage
of new instructional capabilities offered by the new technologies. These
changes are so dramatic that many argue they constitute a new paradigm of
instruction, which requires a new paradigm of instructional theory.   In
short, there is a clear need for this Volume II of Instructional Design
Theories and Models. To attain the broad sampling of methods and theories it
presents, and to make this book more useful for practitioners as well as
graduate students interested in education and training, this volume contains
twice as many chapters, but each half as long as the ones in Volume I, and
the descriptions are generally less technical. Several unique features are
provided by the editor to help readers understand and compare the theories
in this book:   *Chapter 1, which discusses the characteristics of
instructional theory and the nature of the new paradigm of instruction,
helps the reader identify commonalities across the theories.  *Chapter
forewords, which summarize the major elements of the instructional-design
theories, are useful for reviewing and comparing theories, as well as for
previewing a theory to decide if it is of interest, and for developing a
general schema that will make it easier to understand.  *Editor's notes
provide additional help in understanding and comparing the theories and the
new paradigm of instruction to which they belong.  *Units 2 and 4 have
introductory chapters to help readers analyze and understand the theories in
those units.   This is an essential book for anyone interested in exploring
new approaches to fostering human learning and development and thinking
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creatively about ways to best meet the needs of learners in all kinds of
learning contexts.   Readers are invited to use Dr. Charles Reigeluth's Web
site to comment and to view others' comments about the instructional design
theories in this book, as well as other theories. Point your browser to:
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representations. We first describe the underlying premises of the theory and
then show how the basic DCT mechanisms can be used to model diverse
educational phenomena. The research demonstrates that concreteness, imagery,
and verbal associative processes play major roles in various educational
domains: the representation and comprehension of knowledge, learning and
memory of school material, effective instruction, individual differences,
achievement motivation and test anxiety, and the learning of motor skills.
DCT also has important implications for the science and practice of
educational psychology — specifically, for educational research and teacher
education. We show not only that DCT provides a unified explanation for
diverse topics in education, but also that its mechanistic framework
accommodates theories cast in terms of strategies and other high-level
psychological processes. Although much additional research needs to be done,
the concrete models that DCT offers for the behavior and experience of
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parameter, c, as a function of the sample from which it was derived. Three
sampling methods were compared: a random sample, a sample stratified on
north and south aspects, and a sample stratified by cosine of the solar
incidence angle, i. In the latter, power allocation was used to determine
the quantity of observations for each stratum. Four overlapping satellite
images were used (two Landsat 5 TM and two SPOT 5 HRG) with different
acquisition dates and large solar zenith angles over an alpine region in
Sweden. The sample stratified by cosine of i produced c with the highest
precision from repeated trials and had coefficients of determination (R2)
twice as high as those from the other sampling methods. Use of power
allocation in the cosine of i stratified sample enabled better
representation of spectral variability; this was particularly important for
the NIR band where the outcome of c differed according to sampling method.
Evaluations using t-tests and classification accuracy showed that c derived
from the cosine of i stratified sample correctly normalized a larger
percentage of the evaluation data. The distribution of cosine of i in the
study area, the spectral variability and vegetation types exert influences
to consider when sampling to derive c. Although sampling was restricted to
alpine vegetation only, some vegetation classes may have benefitted from
separate c-parameter calculation. In general, dry alpine heath and alpine
grass heath had relatively higher c-parameters, mesic alpine heath was
slightly lower, and alpine willow and alpine meadow had lower c-parameters
for the near-infrared band. The cosine of i stratified sampling method using
power allocation may be useful for calculation of c for vegetation
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distribution of the quantity of each category and (2) random spatial
allocation of the categories. Use of the Kappa indices has become part of
the culture in remote sensing and other fields. This article examines five
different Kappa indices, some of which were derived by the first author in
2000. We expose the indices' properties mathematically and illustrate their
limitations graphically, with emphasis on Kappa's use of randomness as a
baseline, and the often-ignored conversion from an observed sample matrix to
the estimated population matrix. This article concludes that these Kappa
indices are useless, misleading and/or flawed for the practical applications
in remote sensing that we have seen. After more than a decade of working
with these indices, we recommend that the profession abandon the use of
Kappa indices for purposes of accuracy assessment and map comparison, and
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parameters: quantity disagreement and allocation disagreement. This article
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along with a growing demand for feasible environmental indicators to measure, evaluate and communicate anthropogenic influence on biodiversity. Those indicators can be useful tools for national and regional management and support decision making processes. We propose degree of naturalness (Nd), distance to natural habitat (Dn) and the composite index distance to nature (D2N) as a highly comprehensible environmental indicator set that can be used as surrogate for land use related anthropogenic influence on biodiversity. A high resolution naturalness map for Austria based on the best nationwide available land use data was produced and used to test and demonstrate the applicability of the indicator set. Spatially inclusive and comprehensive indicator maps were calculated for the entire country (83,872 km2). Exemplary indicator values for all 2359 municipalities and six altitudinal zones were calculated and evaluated. Indicator maps of Austria clearly delimitate regions with elevated anthropogenic pressure on biodiversity due to land use characteristics. A sensitivity analysis conducted to evaluate the effect of land use data with different spatial and thematic resolution on the indicators showed that Dn reacts sensitive to spatially more detailed information about natural and near natural habitats. By contrast Nd and D2N were robust regarding the spatial and thematic resolution of input data. The proposed indicators do not measure biodiversity or a part of it directly, but the degree of habitat changes caused by anthropogenic land use, therefore they can be used for analysis over wide geographic ranges including different bio-geographic or climatic zones, and different spatial scales.</dcterms:abstract>
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includes information selection and information organisation, parsing of
symbol structures, mapping of analog structures as well as model
construction and model inspection. Based on this theoretical view an
experiment was conducted to analyse the effects of different kinds of
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multiple external representations on the structure of mental models. Sixty university students were randomly assigned to one of the three experimental conditions. The text-only group learned the subject matter with a hypertext, whereas the other two groups learned the subject matter with a hypermedium including this hypertext and different kinds of graphics. The findings indicate that the structure of graphics affects the structure of the mental model. They also indicate that presenting graphics is not always beneficial for the acquisition of knowledge. Whereas task-appropriate graphics may support learning, task-inappropriate graphics may interfere with mental model construction.</dcterms:abstract>
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method, which takes into account the overcorrection of low illuminated
slopes by the original C method. The performance of this method was tested
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schaftlichen Kennzahlen und Formeln lässt sich bestimmen, wie bedeutsam ein Gipfel ist. Aber nicht nur Zahlen machen einen Berg berühmt – der Mensch bestimmt, was ihm gefällt. Christian Rauch begibt sich auf die Suche nach den Maß- stäben in der Gebirgswelt.</dcterms:abstract>

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multivariate geo-spatial data is a challenging task involving many different
aspects. In this paper, we describe a systematic view of this task based on
Chi's data state reference model. The analytical, visual and interaction
components of the systematic view will be instantiated with specific
examples that demonstrate how their tight interconnection facilitates
exploration and analysis of geo-spatial data. In particular, we address the
visualization of hierarchical structures on maps applying an extended
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receiving increased attention from scientific societies, funding agencies,
and the broad scientific community. Ecologists, for example, are
increasingly using data collected by other scientists to address questions
at broader spatial, temporal, and thematic scales e.g., global change,
biodiversity, sustainability. No data set is perfect and self-explanatory.
Ecologists must, therefore, rely upon a set of instructions or documentation
to acquire a specific data set, determine its suitability for meeting
specific research objectives, and accurately interpret results from
subsequent processing, analysis, and modeling. `'Metadata'' represent the
set of instructions or documentation that describe the content, context,
quality, structure, and accessibility of a data set. Although geospatial
metadata standards have been developed and widely endorsed by the
geographical science community, such standards do not yet exist for the
ecological sciences. In this paper, we examine potential benefits and costs
associated with developing and implementing metadata for nongeospatial
ecological data. We present a set of generic metadata descriptors that could
serve as the basis for a `'metadata standard'' for nongeospatial ecological
data. Alternative strategies for metadata implementation that meet differing
organizational or investigator-specific objectives are presented. Finally,
we conclude with several recommendations related to future development and
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analysis of moving objects, such as marine reptiles, mammals, birds, storms,
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ships, cars and pedestrians. The aim was to share expertise, methodologies,
data and common questions between different fields, and to work towards
making significant advances in movement research. A data challenge based on
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different geographic areas and seasons. Three successful and known methods
are compared: the semi-empirical C correction, the Gamma correction
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effects. The optimum radiometric correction procedure is one based solely on
the digital image and requiring no in-situ field measurements during the
satellite overflight. The dark-object subtraction (DOS) method, a strictly
image-based technique, is an attempt to achieve this ideal procedure.
However, the accuracy is not acceptable for many applications, mostly
because it corrects only for the additive scattering effect and not for the
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processing including building connections between pictorial and verbal
representations (active-processing assumption). Second, based on the
cognitive theory of multimedia learning, we examine the concept of cognitive
overload in which the learner's intended cognitive processing exceeds the
learner's available cognitive capacity. Third, we examine five overload
scenarios. For each overload scenario, we offer one or two theory-based
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store, communicate, and compute information, tracking 60 analog and digital
technologies during the period from 1986 to 2007. In 2007, humankind was
able to store 2.9 × 1020 optimally compressed bytes, communicate almost 2 ×
1021 bytes, and carry out 6.4 × 1018 instructions per second on general-
purpose computers. General-purpose computing capacity grew at an annual rate
of 58%. The world’s capacity for bidirectional telecommunication grew at 28%
per year, closely followed by the increase in globally stored information
(23%). Humankind’s capacity for unidirectional information diffusion through
broadcasting channels has experienced comparatively modest annual growth
(6%). Telecommunication has been dominated by digital technologies since
1990 (99.9% in digital format in 2007), and the majority of our
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Viz</dc:title>
      <dcterms:abstract>Many interesting analysis problems (e.g. disease
surveillance) would become more tractable if their spatio-temporal structure
was better understood. Specifically, it would be helpful to be able to
identify autocorrelation in space and time simultaneously. Some of the most
commonly used measures of spatial association are LISA statistics, such as
the Local Moran's I or the Getis-Ord Gi*; however, these have not been
applied to the spatio-temporal case (including many time steps) because of
computational limitations. We have implemented a spatio-temporal version of
the Local Moran's I and claimed two advances: first, we exploit the fact
that there are a limited number of topological relationships present in the
data to make Monte Carlo's estimation of probability densities
computationally practical, and thereby bypass the ‘curse of dimensionality’.
We term this approach ‘spatial memoization’. Second, we developed a tool
(LISTA-Viz) for interacting with the spatio-temporal structure uncovered by
the statistics that contains a novel coordination strategy. The potential
usefulness of the method and the associated tool are illustrated by an
analysis of the 2009 H1N1 pandemic, with the finding that there was a
critical spatio-temporal ‘inflection point’ at which the pandemic changed
its character in the United States.</dcterms:abstract>
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the destruction of the resources on which they depend. This article
discusses new insights about such problems and the conditions most likely to
favor sustainable uses of common-pool resources. Some of the most difficult
challenges concern the management of large-scale resources that depend on
international cooperation, such as fresh water in international basins or
large marine ecosystems. Institutional diversity may be as important as
biological diversity for our long-term survival.</dcterms:abstract>
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billion users. Forest commons are a particularly important class of forests
generating these multiple benefits. Institutional arrangements to govern
forest commons are believed to substantially influence carbon storage and
livelihood contributions, especially when they incorporate local knowledge
and decentralized decision making. However, hypothesized relationships
between institutional factors and multiple benefits have never been tested
on data from multiple countries. By using original data on 80 forest commons
in 10 countries across Asia, Africa, and Latin America, we show that larger
forest size and greater rule-making autonomy at the local level are
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associated with high carbon storage and livelihood benefits; differences in ownership of forest commons are associated with trade-offs between livelihood benefits and carbon storage. We argue that local communities restrict their consumption of forest products when they own forest commons, thereby increasing carbon storage. In showing rule-making autonomy and ownership as distinct and important institutional influences on forest outcomes, our results are directly relevant to international climate change mitigation initiatives such as Reduced Emissions from Deforestation and Forest Degradation (REDD) and avoided deforestation. Transfer of ownership over larger forest commons patches to local communities, coupled with payments for improved carbon storage can contribute to climate change mitigation without adversely affecting local livelihoods.</dcterms:abstract>
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limited in the amount of material that can be processed at one time
(limited-capacity assumption), and meaningful learning involves cognitive
processing including building connections between pictorial and verbal
representations (active-processing assumption). Second, based on the
cognitive theory of multimedia learning, we examine the concept of cognitive
overload in which the learner's intended cognitive processing exceeds the
learner's available cognitive capacity. Third, we examine five overload
scenarios. For each overload scenario, we offer one or two theory-based
suggestions for reducing cognitive load, and we summarize our research
results aimed at testing the effectiveness of each suggestion. Overall, our
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knowledge building that leverages unstructured text resources found on the
web. Geographic knowledge building from unstructured web sources starts with
web document foraging during which the quantity, scope and diversity of web-
based information create incredible cognitive burdens on an analyst’s or
researcher’s ability to judge information relevancy. Determining information
relevancy is ultimately a process of sensemaking. In this paper, we present
our research on visually supporting web document foraging and sensemaking.
In particular, we present the Sense-of-Place (SensePlace) analytic
environment. The scientific goal of SensePlace is to visually and
computationally support analyst sensemaking with text artifacts that have
potential place, time, and thematic relevance to an analytical problem
through identification and visual highlighting of named entities (people,
places, times, and organizations) in documents, automated inference to
determine document relevance using stored knowledge, and a visual interface
with coupled geographic map, timeline, and concept graph displays that are
used to contextualize the contexts of potentially relevant documents. We
present the results of a case study analysis using SensePlace to uncover
potential population migration, geopolitical, and other infectious disease
dynamics drivers for measles and other epidemics in Niger. Our analysis
allowed us to demonstrate how our approach can support analysis of complex
situations along (a) multi-scale geographic dimensions (i.e., vaccine
coverage areas), (b) temporal dimensions (i.e., seasonal population movement
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the information presented. To address this issue within the context of
visualizing environmental data, we list ten guidelines for effective data
visualization in scientific publications. These guidelines support the
primary objective of data visualization, i.e. to effectively convey
information. We believe that this small set of guidelines based on a review
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residential pattern dynamics in cities. This methodology, which uses visual
analytical tools, is meant to help researchers examine how local land-use
configurations shape minorities' residential dynamics and, thereby, affect
the level of minority–majority segregation. This methodology responds to the
need to refer to the relationship between local land-use configurations and
the identity of a building's residents, without simultaneously revealing
sensitive house-related details. The research was instantiated on the
residential patterns exhibited by the Arab community in Jaffa, Israel. The
residential data were collected for over 40 years at four different moments,
each associated with the population and housing censuses conducted by
Israel's Central Bureau of Statistics and the Ministry of the Interior.
Using this methodology enabled us to remain on the level of the individual
building when identifying the relationships between spatial land-use
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to be, collected with modern data acquisition techniques such as global
positioning systems (GPS), high-resolution remote sensing, location-aware
services and surveys, and internet-based volunteered geographic information.
There is an urgent need for effective and efficient methods to extract
unknown and unexpected information from spatial data sets of unprecedentedly
large size, high dimensionality, and complexity. To address these
challenges, spatial data mining and geographic knowledge discovery has
emerged as an active research field, focusing on the development of theory,
methodology, and practice for the extraction of useful information and
knowledge from massive and complex spatial databases.
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This paper highlights recent theoretical and applied research in spatial data mining and knowledge discovery. We first briefly review the literature on several common spatial data-mining tasks, including spatial classification and prediction; spatial association rule mining; spatial cluster analysis; and geovisualization. The articles included in this special issue contribute to spatial data mining research by developing new techniques for point pattern analysis, prediction in space–time data, and analysis of moving object data, as well as by demonstrating applications of genetic algorithms for optimization in the context of image classification and spatial interpolation. The papers concludes with some thoughts on the contribution of spatial data mining and geographic knowledge discovery to geographic information sciences.</dcterms:abstract>

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framework that describes in a systematic and comprehensive way the possible types of information that can be extracted from movement data and on this basis defines the respective types of analytical tasks. Tasks are distinguished according to the type of information they target and according to the level of analysis, which may be elementary (i.e. addressing specific elements of a set) or synoptic (i.e. addressing a set or subsets). We also present a taxonomy of generic analytic techniques, in which the types of tasks are linked to the corresponding classes of techniques that can support fulfilling them. We include techniques from several research fields: visualization and visual analytics, geographic information science, database technology, and data mining.

We expect the taxonomy to be valuable for analysts and researchers. Analysts will receive guidance in choosing suitable analytic techniques for their data and tasks. Researchers will learn what approaches exist in different fields and compare or relate them to the approaches they are going to undertake.</dcterms:abstract>

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equations, logistic modifications to both prey and predator equations,
incorporation of the Michaelis–Menten–Holling functional response into the
predator and prey equations, and the recent development of ratio–dependent
functional responses and per–capita rate of change functions. Some of the
problems of classical predator–prey theory, including the paradoxes of
enrichment and biological control, seem to have been caused by the
application of the principle of mass action to predator–prey interactions.
Predator–prey models that evolved from logistic theory or that incorporate
ratio–dependent functional responses do not have these problems and also
seem to be more biologically plausible.  See full-text article at
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biodiversity patterns and ecological processes at local and landscape scales
is critical for mitigating effects of global environmental change. In this
review, we use knowledge gained from human-modified landscapes to suggest
eight hypotheses, which we hope will encourage more systematic research on
the role of landscape composition and configuration in determining the
structure of ecological communities, ecosystem functioning and services. We
organize the eight hypotheses under four overarching themes. Section A:
‘landscape moderation of biodiversity patterns' includes (1) the landscape
species pool hypothesis—the size of the landscape-wide species pool
moderates local (alpha) biodiversity, and (2) the dominance of beta
diversity hypothesis—landscape-moderated dissimilarity of local communities
determines landscape-wide biodiversity and overrides negative local effects
of habitat fragmentation on biodiversity. Section B: ‘landscape moderation
of population dynamics' includes (3) the cross-habitat spillover
hypothesis—landscape-moderated spillover of energy, resources and organisms
across habitats, including between managed and natural ecosystems,
influences landscape-wide community structure and associated processes and
(4) the landscape-moderated concentration and dilution hypothesis—spatial
and temporal changes in landscape composition can cause transient
concentration or dilution of populations with functional consequences.
Section C: ‘landscape moderation of functional trait selection’ includes (5)
the landscape-moderated functional trait selection hypothesis—landscape
moderation of species trait selection shapes the functional role and
trajectory of community assembly, and (6) the landscape-moderated insurance
hypothesis—landscape complexity provides spatial and temporal insurance,
i.e. high resilience and stability of ecological processes in changing
environments. Section D: ‘landscape constraints on conservation management'
includes (7) the intermediate landscape-complexity hypothesis—landscape-
moderated effectiveness of local conservation management is highest in
structurally simple, rather than in cleared (i.e. extremely simplified) or
in complex landscapes, and (8) the landscape-moderated biodiversity versus
ecosystem service management hypothesis—landscape-moderated biodiversity
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relevance, they have to be assessed thoroughly with respect to their
quality. Simulation model assessment comprises two challenges: (a) modelers
have to create a comprehensive mental image of the model's quality despite
the massive multidimensional, multivariate, and often heterogeneous data;
and (b) the model assessment process should be as efficient as possible. We
face these challenges with a visual analytics approach. We aim at developing
interactive visual representations which, in combination with present
computational analysis methods, support the scientist's reasoning process to
enhance the assessment of simulation models. In a design study, we analyzed
two exemplary reasoning processes which cover the main model assessment
procedures: the evaluation of the internal coherence of the model's
structure and behavior and the assessment of its empirical validity. The
analysis was conducted by means of a user- and task-centered approach which
combines several knowledge elicitation techniques and task analysis
concepts. We derived domain tasks as well as cognitive actions and developed
and implemented interactive visualization components which supplement the
statistical analysis methods already used. An informal qualitative user
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the Earth's surface to the sensor. When and how to correct the atmospheric
effects depend on the remote sensing and atmospheric data available, the
information desired, and the analytical methods used to extract the
information. In many applications involving classification and change
detection, atmospheric correction is unnecessary as long as the training
data and the data to be classified are in the same relative scale. In other
circumstances, corrections are mandatory to put multitemporal data on the
same radiometric scale in order to monitor terrestrial surfaces over time. A
multitemporal dataset consisting of seven Landsat 5 Thematic Mapper (TM)
images from 1988 to 1996 of the Pearl River Delta, Guangdong Province, China
was used to compare seven absolute and one relative atmospheric correction
algorithms with uncorrected raw data. Based on classification and change
detection results, all corrections improved the data analysis. The best
overall results are achieved using a new method which adds the effect of
Rayleigh scattering to conventional dark object subtraction. Though this
method may not lead to accurate surface reflectance, it best minimizes the
difference in reflectances within a land cover class through time as
measured with the Jeffries–Matusita distance. Contrary to expectations, the
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      <dcterms:abstract>This article examines learning strategies that promote meaningful learning from expository text as evidenced by problem-solving transfer. The teaching of learning strategies involves decisions concerning what to teach, how to teach, where to teach, and when to teach. The teaching of learning strategies also depends on the teacher's conception of learners as response strengtheners, information processors, or sense makers. Three cognitive processes involved in meaningful learning are selecting relevant information from what is presented, organizing selected information into a coherent representation, and integrating presented information with existing knowledge. Finally, exemplary programs for teaching of learning strategies are presented. The most effective method for teaching students how to make sense out of expository text is for students to participate in selecting, organizing, and integrating information within the context of authentic academic tasks.</dcterms:abstract>
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task in many application scenarios. In recent years, a variety of techniques
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difficult for prospective users to select methods or tools that are useful
for their particular task at hand.
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In this article, we develop and discuss a systematic view on the diversity of methods for visualizing time-oriented data. With the proposed categorization we try to untangle the visualization of time-oriented data, which is such an important concern in Visual Analytics. The categorization is not only helpful for users, but also for researchers to identify future tasks in Visual Analytics.</dcterms:abstract>

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taking place in complex systems. Simulation provides insights into the often surprising diversity of possible behaviors, and allows identifying possibilities for intervention and options for alternative development. About one hundred simulation models from all areas of life are fully documented in the three volumes of the 'System Zoo'. They can be quickly implemented and easily operated using freely available system dynamics software. Volume 1 of the System Zoo contains simulation models of elementary processes, and of complex systems from physics and engineering, among them: exponential and logistic growth, oscillations, delays, and storage; phenomena of infection, transition, and overload; complex systems with limit cycles, multiple equilibrium points and chaotic attractors; and applications from control engineering, flight dynamics, fluid flow and heat conduction. The System Zoo collection of simulation models is particularly well-suited for teaching, training, and research projects at all levels from high school to university, and for individual study. Volume 2 of the System Zoo contains simulation models related to climate, vegetation, ecosystems and resources. Volume 3 deals with systems and processes found in economy and society, and with long-term global development. About the author: Hartmut Bossel is Professor Emeritus of environmental systems analysis. He taught for many years at the University of California in Santa Barbara and the University of Kassel, Germany, where he was director of the Center for Environmental Systems Research until hisretirement. He holds an engineering degree from the Technical University of Darmstadt, and a Ph.D. degree from the University of California at Berkeley. With a background in engineering, systems science, and mathematical modeling, he has led many research projects and future studies in different countries, developing computer simulation models and decision support systems in the areas of energy supply policy, global dynamics, orientation of behavior, agricultural policy, and forest dynamics and management. He has written numerous books on modeling and simulation of dynamic systems, social change and future paths, and has published widely in the scientific literature in several fields.</dcterms:abstract>
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is necessary to manage terrestrial resources in a manner that replicates, as
closely as possible, natural ecological conditions. In forested ecosystems,
management decisions are driven by variables such as forest composition,
forest structure (both vertical and horizontal), and other ancillary data
(i.e., topography, soils, slope, aspect, and disturbance regime dynamics).
Vertical forest structure is difficult to quantify and yet is an important
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component in the decision-making process. This study investigated the use of light detection and ranging (LiDAR) data for classifying this attribute at landscape scales for inclusion into decision-support systems. Analysis of field-derived tree height variance demonstrated that this metric could distinguish between two classes of vertical forest structure. Analysis of LiDAR-derived tree height variance demonstrated that differences between single-story and multistory vertical structural classes could be detected. Landscape-scale classification of the two structure classes was 97% accurate. This study suggested that within forest types of the Intermountain West region of the United States, LiDAR-derived tree heights could be useful in the detection of differences in the continuous, nonthematic nature of vertical structure forest with acceptable accuracies.</dcterms:abstract>
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spatial orientation (such as turning-off skills, transformation from map to
place, finding one's direction, navigation). These skills were tested by
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processed through a set of preprocessing or “clean-up” routines that
includes a correction for atmospheric scattering, often called haze. Various
methods to correct or remove the additive haze component have been
developed, including the widely used dark-object subtraction technique. A
problem with most of these methods is that the haze values for each spectral
band are selected independently. This can create problems because
atmospheric scattering is highly wavelength-dependent in the visible part of
the electromagnetic spectrum and the scattering values are correlated with
each other. Therefore, multispectral data such as from the Landsat Thematic
Mapper and Multispectral Scanner must be corrected with haze values that are
spectral band dependent. An improved dark-object subtraction technique is
demonstrated that allows the user to select a relative atmospheric
scattering model to predict the haze values for all the spectral bands from
a selected starting band haze value. The improved method normalizes the
predicted haze values for the different gain and offset parameters used by
the imaging system. Examples of haze value differences between the old and
improved methods for Thematic Mapper Bands 1, 2, 3, 4, 5, and 7 are 40.0,
13.0, 12.0, 8.0, 5.0, and 2.0 vs. 40.0, 13.2, 8.9, 4.9, 16.7, and 3.3,
respectively, using a relative scattering model of a clear atmosphere. In
one Landsat multispectral scanner image the haze value differences for Bands
4, 5, 6, and 7 were 30.0, 50.0, 50.0, and 40.0 for the old method vs. 30.0,
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understanding and predicting the behaviour of complex systems. Such models
may be implemented with explicit knowledge of only a limited number of
parameters relating to spatial relationships among locations. Consequently,
they are often used instead of deterministic-mechanistic models, which may
potentially require an unrealistically large number of parameters.
Currently, in contrast to spatial stochastic models, the parameterization of
the joint spatial distribution of objects in landscape models is more often
implicit than explicit. Here, we investigate the similarities and
differences between bona fide spatial stochastic models and landscape models
by focusing mostly on the relationships between processes, their
realizations (patterns), representation and measurement, and their use in
exploratory as well as confirmatory data analysis. One of the most important
outcomes of recognizing the importance of stochastic processes is the
acknowledgement that the spatial pattern observed in a landscape is only one
realization of that process. Hence, while ecologists have been using
landscape pattern indices (LPIs) to characterize landscape heterogeneity
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and/or make inferences about processes shaping the landscape, no stochastic
modelling framework has been developed for their proper statistical
elucidation. Consequently, several (mis)uses of LPIs draw conclusions about
landscapes which are suspect. We show that several reports about
sensitivities of LPIs to measurements have common roots that can be made
explicitly manageable by adopting stochastic models of spatial structure.
The key parameters of these stochastic models are composition and
configuration, which, in general, cannot be estimated independently from
each other. We outline how to develop the stochastic framework to interpret
observations and make some recommendations to practitioners about everyday
usage. The conceptual linkages between patterns and processes are
particularly important in light of recent efforts to bridge the static-
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computers cooperate through graphics, is the means through which this is
achieved. Seamless and sophisticated synergies are required for analysing
spatio-temporal data and solving spatio-temporal problems. In modern
society, spatio-temporal analysis is not solely the business of professional
analysts. Many citizens need or would be interested in undertaking analysis
of information in time and space. Researchers should find approaches to deal
with the complexities of the current data and problems and find ways to make
analytical tools accessible and usable for the broad community of potential
users to support spatio-temporal thinking and contribute to solving a large
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affecting leaves and/or feeder roots have been studied using two dynamic
models of basic tree processes. The first model (BAUMTOD) purposely uses
relative quantities and a simple model, the second (SPRUCE) employs
parameter data for spruce (Picea abies) and a more complex model formulation
including e.g. seasonal effects. In the absence of pollution, this model
reproduces normal growth data for spruce.
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As the impairment of leaves and/or feeder roots due to chronic pollution increases, growth at first slows down, and the tree enters a ‘stagnation mode’. If the chronic pollution remains ‘subcritical’, the tree may survive ‘indefinitely’ in the stagnation mode. However, if the chronic pollution becomes ‘supercritical’, the tree enters a ‘breakdown mode’ and will collapse suddenly. This collapse may take place even after many years of constant pollution stress and despite a ‘healthy’ appearance until about 2 years before the tree dies.

Both models produce the three distinct behavioural modes: (1) growth, (2) stagnation, and (3) breakdown. The respective regions of dynamic behaviour are presented as a function of leaf and

feeder root damage, and of tree age. The analysis suggests that the currently observed dieback of forests in many countries may be the ‘natural’ response to long-term (supercritical) chronic pollution stress. The simulations also suggest that only a rapid and drastic reduction of air pollution will be able to save the affected forests.</dcterms:abstract>


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rarely see what we are looking at unless our attention is directed to it.
This phenomenon can have serious life-and-death consequences. Although the
inextricable link between perceiving and attending was noted long ago by
Aristotle, this phenomenon, now called inattentional blindness (IB), only
recently has been named and carefully studied. Among the many questions that
have been raised about IB are questions about the fate of the clearly
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action types relating to complimentary levels of function and argue that
GeoVisualization is a key component. An interdisciplinary and international
workshop on GeoVisualization and the Digital City is reported upon and the
process developed for supporting and stimulating cross-disciplinary research
and publication in this area described. Discussion at the workshop drew
attention to key trends and themes in this area and these are reported with
an emphasis on those requiring additional research or cross community
collaboration. The six papers subsequently selected for development and
inclusion in this special issue are summarised and drawn together in
relation to these themes and action types. The importance of research
efforts that address more than one functional level and support analytical
map use for effective contributions to the Digital City is
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47-si1.gif&quot;&gt;ognitive load theory (CLT) can provide guidelines to
assist in the presentation of information in a manner that encourages
learner activities that optimise intellectual performance. It is based on a
cognitive architecture that consists of a limited working memory, with
partly independent processing units for visual and audio information, which
interacts with an unlimited long-term memory. According to the theory, the
limitations of working memory can be circumvented by coding multiple
elements of information as one element in cognitive schemata, by automating
rules, and by using more than one presentation modality. This special issue
consists of six articles from four countries and three continents on the
instructional implications of CLT. The articles cover presenting
instructional techniques for increasing germane CL in studying worked
examples (van Merriënboer, Schuurman, De Croock, &amp;amp; Paas), effects of
example elaboration training on decreasing cognitive interference and
overload (Stark, Mandl, Gruber, &amp;amp; Renkl), CLT-based instructional design
when dealing with very high element interactivity material (Pollock,
Chandler, &amp;amp; Sweller), effects of worked examples on CL in older learners
(Van Gerven, Paas, &amp;amp; Schmidt), a cognitive theory of multimedia learning
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