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2014 Physical Sciences Paper Exemplar 2014

Yves Gingras



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ballistics sciences human sciences information sciences materials sciences and mechanical sciences This biennial report summarizes the findings of the ARLTAB from the reviews conducted by the panels in 2015 and 2016 and subsumes the 2015 2016 interim report

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Bibliometrics and Research Evaluation Yves Gingras, 2016-10-07 Why bibliometrics is useful for understanding the global dynamics of science but generate perverse effects when applied inappropriately in research evaluation and university rankings The research evaluation market is booming Ranking metrics h index and impact factors are reigning buzzwords Government and research administrators want to evaluate everything teachers professors training programs universities using quantitative indicators Among the tools used to measure research excellence bibliometrics aggregate data on publications and citations has become dominant Bibliometrics is hailed as an objective measure of research quality a quantitative measure more useful than subjective and intuitive evaluation methods such as peer review that have been used since scientific papers were first published in the seventeenth century In this book Yves Gingras offers a spirited argument against an unquestioning reliance on bibliometrics as an indicator of research quality Gingras shows that bibliometric rankings have no real scientific validity rarely measuring what they pretend to Although the study of publication and citation patterns at the proper scales can yield insights on the global dynamics of science over time ill defined quantitative indicators often generate perverse and unintended effects on the direction of research Moreover abuse of bibliometrics occurs when data is manipulated to boost rankings Gingras looks at the politics of evaluation and argues that using numbers can be a way to control scientists and diminish their autonomy in the evaluation process Proposing precise criteria for establishing the validity of indicators at a given scale of analysis Gingras questions why universities are so eager to let invalid indicators influence their research strategy

Advances in Geocomputation Daniel A. Griffith, Yongwan Chun, Denis J. Dean, 2017-01-03 This book contains refereed papers from the 13th International Conference on GeoComputation held at the University of Texas Dallas May 20 23 2015 Since 1996 the members of the GeoComputation the art and science of solving complex spatial problems with computers community have joined together to develop a series of conferences in the United Kingdom New Zealand Australia Ireland and the United States of America The conference encourages diverse topics related to novel methodologies and technologies to enrich the future development of GeoComputation research

Visuospatial Processing for Education in Health and Natural Sciences Juan C. Castro-Alonso, 2019-08-05 Visuospatial processing is key to learn and perform professionally in the domains of health and natural sciences As such there is accumulating research showing the importance of visuospatial processing for education in diverse health sciences e g medicine anatomy surgery and in many natural sciences e g biology chemistry physics geology In general visuospatial processing is treated separately as a spatial ability and b working memory with visuospatial stimuli This book attempts to link these two research perspectives and present visuospatial processing as the cognitive activity of two

components of working memory mostly the visuospatial sketch pad and also the central executive which allows to perform in both spatial ability and working memory tasks Focusing on university education in the fields of health sciences and natural sciences the chapters in this book describe the abilities of mental rotation mental folding spatial working memory visual working memory among others and how different variables affect them Some of these variables thoroughly addressed in the book are sex gender visualizations interactivity cognitive load and embodiment The book concludes with a chapter presenting VAR a battery of computer based tests to measure different tasks entailing visuospatial processing With contributions by top educational psychologists from around the globe this book will be of interest to a broad array of readers across the disciplines

Sand and Gravel Spits Giovanni Randazzo, Derek W.T. Jackson, J. Andrew G. Cooper, 2015-04-16 This book draws together a series of studies of spit geomorphology and temporal evolution from around the world The volume offers some unique insights into how these landforms are examined scientifically and how we as humans impact them offering a global perspective on spit genesis and evolution Spits are unique natural environments whose evolution is linked to the adjacent coast and near shore morphology sediment supply coastal dynamics and sea level change Over the past century Global Mean Sea Level GMSL has risen by 10 to 20 centimetres and many coastal spits represent the first sentinel against coastal submersion Scientific research indicates that sea levels worldwide have been rising at a rate of 3 5 millimetres per year since the early 1990s roughly twice the average speed of the preceding 80 years This trend linked to global warming will undoubtedly cause major changes in spit morphology Spits are highly mobile coastal landforms that respond rapidly to environmental change They therefore represent a signature of past environmental change and provide a landform indicator of climate change

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