



# basic education

Department:  
Basic Education  
REPUBLIC OF SOUTH AFRICA

## NATIONAL SENIOR CERTIFICATE

GRADE 12

MATHEMATICS P2

EXEMPLAR 2014

MEMORANDUM

MARKS: 150

This memorandum consists of 13 pages.

# June 2014 Maths Exemplar

**A Gutmann**



## June 2014 Maths Exemplar:

**Handbook of Research on Teacher Practices for Diverse Writing Instruction** Hodges, Tracey S., 2022-05-20 The art and practice of writing is complex and multidimensional students often apply unique writing styles As such educators must apply focused teaching methods to nurture these unique forms of writing Educators must stay up to date with the practices for diverse writing instruction in order to best engage with a diverse classroom However resources related to writing typically do not focus on the depth and breadth of writing and there is a need for a resource that offers a comprehensive look at diverse writing instruction research The Handbook of Research on Teacher Practices for Diverse Writing Instruction provides a rich discussion of the issues perspectives and methods for writing instruction currently in use with an added lens focusing on diversity and equity It provides unique coverage on the topic of writing instruction for practical implementation within the classroom setting Covering topics such as student motivation curriculum development and content area instruction this major reference work is an essential resource for preservice teachers faculty and administration of K 12 and higher education academic libraries government officials school boards researchers and academicians

**High-Level Adaptation and Aftereffects** Rocco Palumbo, Stefania D'Ascenzo, Luca Tommasi, 2017-04-28 Aftereffects generally occur after a prolonged exposure adaptation to a first stimulus possessing one given property followed by presentation of a stimulus bearing a neutral value of that property The aftereffect consists in a change in appearance of the neutral stimulus following the adapter compared to the appearance of the neutral stimulus when it is perceived without any previous exposure to the adapter The transient phenomena of perceptual aftereffects are believed to depend on the activation of neuron populations that respond selectively to a given property of the stimuli Studying how adaptation occurs which stimulus properties are sensitive to it which timings are necessary whether individual differences modulate its occurrence has thus become an indirect way to probe the plasticity of sensory functions in the nervous system recently extending to more cognitive and representational aspects of neural coding In the last two decades indeed it has been demonstrated that aftereffects occur not only for low level properties of stimuli such as motion color or orientation but also for high level properties Many studies have proven that high level proprieties of the stimuli e g gender identity ethnicity or age of a face or a voice are sensitive to this phenomenon It has been shown for example that the prolonged exposure to a female or male face produces a gender misperception in the opposite direction when an androgynous face is shown after the adapter Furthermore recent studies have also shown that aftereffects are not strictly contingent upon the physical features that make up stimuli but they seem to run across the high level proprieties subjects are adapted to These evidences are supported by cross category adaptation studies which underlie how aftereffects occur even across stimuli that do not share physical features e g bodies and faces but that instead share common higher level properties such as gender Given the growing body of research focused on adaptation and aftereffects in high level perception at the boundaries with perceptual

learning attention and cognition the purpose of this topic is to provide a picture of the state of the art relative to the specific phenomena of adaptation in high level perceptual processing

**Modeling Individual Differences in Perceptual Decision Making** Joseph W. Hout, Cheng-Ta Yang, James T. Townsend, 2017-01-18 To deal with the abundant amount of information in the environment in order to achieve our goals human beings adopt a strategy to accumulate some information and filter out other information to ultimately make decisions Since the development of cognitive science in the 1960s researchers have been interested in understanding how human beings process and accumulate information for decision making Researchers have conducted extensive behavioral studies and applied a wide range of modeling tools to study human behavior in simple detection tasks and two choice decision tasks e.g. discrimination classification In general researchers often assume that the manner in which information is processed for decision making is invariant across individuals given a particular experimental context Independent variables including speed accuracy instructions stimulus properties i.e. intensity and characteristics of the participants i.e. aging cognitive ability are assumed to affect the parameters in a model i.e. speed of information accumulation response bias but not the way that participants process information e.g. the order of information processing Given these assumptions much modeling has been accomplished based on the grouped data rather than the individual data However a growing number of studies have demonstrated that there were individual differences in the perceptual decision process In the same task context different groups of the participants may process information in different manners The capacity and architecture of the decision mechanism were found to vary across individuals implying that humans decision strategies can vary depending on the context to maximize their performance In this special issue we focused on a particular subset of cognitive models particularly accumulator models multinomial processing trees and systems factorial technology SFT as applied to perceptual decision making The motivation for the focus on perceptual decision making is threefold Empirical studies of perception have grown out of a history of making a large number of observations for each individual so as to achieve precise estimates of each individual's performance This type of data rather than a small number of observations per individual is most amenable to achieving precision in individual level and group level cognitive modeling Second the interaction between the acquisition of perceptual information and the decisions based on that information to the extent that those processes are distinguishable offers rich data for scientific exploration Finally there is an increasing interest in the practical application of individual variation in perceptual ability whether to inform perceptual training and expertise or to guide personnel decisions Although these practical applications are beyond the scope of this issue we hope that the research presented herein may serve as the foundation for future endeavors in that domain

*Regional Renaissance* Charles W. Wessner, Thomas R. Howell, 2019-09-14 This book examines ways in which formerly prosperous regions can renew their economy during and after a period of industrial and economic recession Using New York's Capital Region i.e. Albany Troy Schenectady etc as a case study the authors show how entrepreneurship innovation

investment in education research and political collaboration are critical to achieving regional success In this way the book provides other regions and nations with a real life model for successful economic development In the past half century the United States and other nations have seen an economic decline of formerly prosperous regions as a result of new technology and globalization One of the hardest hit United States regions is Upstate New York or the Capital Region it experienced a demoralizing hemorrhage of manufacturing companies jobs and people to other regions and countries To combat this the region with the help of state leaders mounted a decades long effort to renew and restore the region s economy with a particular focus on nanotechnology As a result New York s Capital Region successfully added thousands of well paying skill intensive manufacturing jobs New York s success story serves as a model for economic development for policy makers that includes major public investments in educational institutions and research infrastructure partnerships between academia industry and government and creation of frameworks for intra regional collaboration by business government and academic actors Featuring recommendations for best practices in regional development policy this book is appropriate for scholars students researchers and policy makers in regional development innovation R D policy economic development and economic growth

*Learning Convolution Operators for Visual Tracking* Martin Danelljan, 2018-05-03 Visual tracking is one of the fundamental problems in computer vision Its numerous applications include robotics autonomous driving augmented reality and 3D reconstruction In essence visual tracking can be described as the problem of estimating the trajectory of a target in a sequence of images The target can be any image region or object of interest While humans excel at this task requiring little effort to perform accurate and robust visual tracking it has proven difficult to automate It has therefore remained one of the most active research topics in computer vision In its most general form no prior knowledge about the object of interest or environment is given except for the initial target location This general form of tracking is known as generic visual tracking The unconstrained nature of this problem makes it particularly difficult yet applicable to a wider range of scenarios As no prior knowledge is given the tracker must learn an appearance model of the target on the fly Cast as a machine learning problem it imposes several major challenges which are addressed in this thesis The main purpose of this thesis is the study and advancement of the so called Discriminative Correlation Filter DCF framework as it has shown to be particularly suitable for the tracking application By utilizing properties of the Fourier transform a correlation filter is discriminatively learned by efficiently minimizing a least squares objective The resulting filter is then applied to a new image in order to estimate the target location This thesis contributes to the advancement of the DCF methodology in several aspects The main contribution regards the learning of the appearance model First the problem of updating the appearance model with new training samples is covered Efficient update rules and numerical solvers are investigated for this task Second the periodic assumption induced by the circular convolution in DCF is countered by proposing a spatial regularization component Third an adaptive model of the training set is proposed to alleviate the impact of corrupted or mislabeled training samples Fourth a continuous space

formulation of the DCF is introduced enabling the fusion of multiresolution features and sub pixel accurate predictions Finally the problems of computational complexity and overfitting are addressed by investigating dimensionality reduction techniques As a second contribution different feature representations for tracking are investigated A particular focus is put on the analysis of color features which had been largely overlooked in prior tracking research This thesis also studies the use of deep features in DCF based tracking While many vision problems have greatly benefited from the advent of deep learning it has proven difficult to harvest the power of such representations for tracking In this thesis it is shown that both shallow and deep layers contribute positively Furthermore the problem of fusing their complementary properties is investigated The final major contribution of this thesis regards the prediction of the target scale In many applications it is essential to track the scale or size of the target since it is strongly related to the relative distance A thorough analysis of how to integrate scale estimation into the DCF framework is performed A one dimensional scale filter is proposed enabling efficient and accurate scale estimation

Congressional Record , *Journal of Contemporary Urban Affairs*, Vol.1 No.2, 2017 Senem Zeybekoglu Sadri, Hourakhsh Ahmad Nia, Yousif Hussien Suleiman, Mustafa Aziz Amen, Ifeanyi Obi, Donia Zhang, Anindita Mandal, Hugh Byrd, Ehsan Valipour, Samira Tayyebisoudkolaei, bdolah Mobaraki, Hossein Sadri, 2017-12-01 Oeuvre vs Abstract Space Appropriation of Gezi Park in Istanbul Senem Zeybekoglu Sadri Dr 1 10 DOI <https://doi.org/10.25034/ijcua.2017.3643> Identity in Changing Context Factors of losing Identity in new developed part of the city of Famagusta North Cyprus Hourakhsh Ahmad Nia Dr Yousif Hussien Suleiman MA 11 20 DOI <https://doi.org/10.25034/ijcua.2017.3644> The inspiration of Bauhaus principles on the modern housing in Cyprus Mustafa Aziz Amen Ph D Candidate 21 32 DOI <https://doi.org/10.25034/ijcua.2017.3645> An agenda for the Management of contemporary Sustainable houses Ifeanyi Obi Dr 33 37 DOI <https://doi.org/10.25034/ijcua.2017.3646> Courtyard Housing in China Chinese Quest for Harmony Donia Zhang Dr 38 56 DOI <https://doi.org/10.25034/ijcua.2017.3647> Density Energy and Metabolism of a proposed smart city Anindita Mandal Dr Hugh Byrd Dr 57 68 DOI <https://doi.org/10.25034/ijcua.2017.3648> Establishment of space syntax to read urban road network the case of Sari Iran Ehsan Valipour Ph D Candidate Samira Tayyebisoudkolaei MA Abdolah Mobaraki Ph D Candidate 69 75 DOI <https://doi.org/10.25034/ijcua.2017.3649> Profession vs Ethics Hossein Sadri Dr 76 82 DOI <https://doi.org/10.25034/ijcua.2017.3650>

*The Routledge Companion to Transmedia Studies* Matthew Freeman, Renira Rampazzo Gambarato, 2018-10-09 Around the globe people now engage with media content across multiple platforms following stories characters worlds brands and other information across a spectrum of media channels This transmedia phenomenon has led to the burgeoning of transmedia studies in media cultural studies and communication departments across the academy The Routledge Companion to Transmedia Studies is the definitive volume for scholars and students interested in comprehending all the various aspects of transmediality This collection which gathers together original articles by a global roster of contributors from a variety of disciplines sets out to contextualize problematize and scrutinize the current status and future directions of transmediality exploring the industries

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