

2.5	The new series/<i>Die nuwe reeks</i> is $16 + 44 + 72 + \dots + 1752$ $16 + 28(n - 1) = 1752$ $1736 = 28(n - 1)$ $62 = n - 1$ $n = 63$ OR/OF $2 + 9 + \underline{16} + 23 + 30 + 37 + \underline{44} + 51 + \dots + \underline{1752}$ T_3 is divisible by /is deelbaar deur 4 Then $T_7, T_{11}, T_{15}, \dots, T_{251}$ are divisible by 4, thus each 4th term is divisible by 4. Daarna is $T_7, T_{11}, T_{15}, \dots, T_{251}$ deelbaar deur 4, d.w.s. elke 4^{de} term is deelbaar deur 4. $\therefore$ number of terms divisible by 4 will be $= \frac{251 - 3}{4} + 1 = 63$ $\therefore$ aantal terme deelbaar deur 4 sal wees $= \frac{251 - 3}{4} + 1 = 63$ OR/OF Position of terms divisible by 4: $3 ; 7 ; 11 ; \dots ; 247 ; 251$ $T_n = 4n - 1 = 251$ $4n = 252$ $n = 63$	✓✓ generating new series divisible by 4/ <i>vorming van nuwe reeks deelbaar deur 4</i> ✓ $T_n = 1752$ ✓ 63 (4)
	T_3 is divisible by /is deelbaar deur 4 Then $T_7, T_{11}, T_{15}, \dots, T_{251}$ are divisible by 4, thus each 4th term is divisible by 4. Daarna is $T_7, T_{11}, T_{15}, \dots, T_{251}$ deelbaar deur 4, d.w.s. elke 4^{de} term is deelbaar deur 4. $\therefore$ number of terms divisible by 4 will be $= \frac{251 - 3}{4} + 1 = 63$ $\therefore$ aantal terme deelbaar deur 4 sal wees $= \frac{251 - 3}{4} + 1 = 63$	✓ T_3 is divisible by 4/ <i>is deelbaar deur 4</i> ✓ identifying terms divisible by 4/ <i>identifiseer terme deelbaar deur 4</i> ✓ reasoning/redenering ✓ 63 (4)
	Position of terms divisible by 4: $3 ; 7 ; 11 ; \dots ; 247 ; 251$ $T_n = 4n - 1 = 251$ $4n = 252$ $n = 63$	✓✓ generating sequence involving position of terms/<i>vorming van reeks i.t.v. posisie van terme</i> ✓ $T_n = 251$ ✓ 63 (4)

2014 Nov Maths Exemplar

**Daniel Cremers, Ian Reid, Hideo
Saito, Ming-Hsuan Yang**



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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 **Computer Vision --**

ACCV 2014 Daniel Cremers, Ian Reid, Hideo Saito, Ming-Hsuan Yang, 2015-04-16 The five volume set LNCS 9003 9007 constitutes the thoroughly refereed post conference proceedings of the 12th Asian Conference on Computer Vision ACCV 2014 held in Singapore Singapore in November 2014 The total of 227 contributions presented in these volumes was carefully reviewed and selected from 814 submissions The papers are organized in topical sections on recognition 3D vision low level vision and features segmentation face and gesture tracking stereo physics video and events and poster sessions 1 3

Developmental Evaluation Exemplars Michael Quinn Patton, Kate McKegg, Nan Wehipeihana, 2015-10-20 Developmental evaluation DE provides evaluative information and feedback to social innovators and their funders and supporters to inform adaptive development of change initiatives in complex dynamic environments DE brings to innovation and adaptation the processes of asking evaluative questions applying evaluation logic and gathering and reporting evaluative data to inform and support the development of innovative projects programs initiatives products organizations and or systems change efforts with timely feedback This book presents the current state of the art and practice of DE through 12 case exemplars The book also answers to common questions about DE presents a synthesis of patterns themes insights and lessons drawn from the case studies and for the first time identifies and explains the essential guiding principles of DE The Professional Practice of Teaching in New Zealand Mary Hill, Martin Thrupp, Contributors, The Professional Practice of Teaching in New Zealand contains a wealth of information that pre service teachers need to know in order to learn to teach effectively Written specifically for the New Zealand setting it highlights the range of knowledge and skills that teachers require in order to make a positive difference to their students lives This new edition has been fully updated to exemplify the latest research and align with the current New Zealand context New chapters on topics such as effective teaching in modern learning environments

Maori learners and diverse learners add new depth to the text and sit alongside a new introductory chapter that welcomes students to the profession of teaching in New Zealand Throughout the text many case studies activities and stories from real life teachers and students help readers to link the theory to their classroom practices *Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications* Ruben Vera-Rodriguez, Julian Fierrez, Aythami Morales, 2019-03-02 This book constitutes the refereed post conference proceedings of the 23rd Iberoamerican Congress on Pattern Recognition CIARP 2018 held in Madrid Spain in November 2018 The 112 papers presented were carefully reviewed and selected from 187 submissions The program was comprised of 6 oral sessions on the following topics machine learning computer vision classification biometrics and medical applications and brain signals and also on text and character analysis human interaction and sentiment analysis Exemplars of Assessment in Higher Education, Volume Two Jane Marie Souza, Tara A. Rose, 2023-11-09 In this second volume of the successful Exemplars of Assessment in Higher Education editors Souza and Rose share examples of assessment practice from over fifteen distinct and diverse Higher Education Institutions including international contributions Building upon the work of the first volume the case studies in this book reflect the changes in assessment and higher education in the post Covid education environment The institutions that appear in this book were chosen for having an effective assessment approach in one or more of the following areas career readiness distance education diversity equity and inclusion or general education Each part of the book discusses one of these four areas with chapters that feature real life examples from the educators who teach at the college or university Featuring a Foreword by AAC U President Lynn Pasquerella the work highlighted in this book is also aligned with AAC U s Valid Assessment of Learning in Undergraduate Education VALUE initiative to help educators make the best decisions about measuring student learning This book is ideal for university educators and assessment practitioners looking to diversify and enhance their assessment practices A Co Publication with AAC U Four Exemplars of Ru   (Confucianism) Paul J. D'Ambrosio, Geir Sigur sson, Dimitra Amarantidou, Hans-Georg Moeller, 2025-08-15 This book discusses scholars who have all engaged in comparative philosophy projects many of whom first rose to fame because of their penetrating insights into the similarities and differences in Western and Chinese thought They all went beyond simply looking at how one thinker one school or one tradition relates to another each draws on sources from China and the West However their projects from role ethics to concrete metaphysics from critiquing individualism to balancing harmony and justice are attempts at re evaluating the way we view the world and live our lives These projects are systematic thorough tong and comprehensive descriptions of ourselves the world and our interactions with others They are all comparative but on top of this they also aim at making a point that transcends their comparisons The book thus shows that these great thinkers draw on a multiplicity of resources and while they might find some ideas closer to home than others comparison is a necessary constant Using traditional Confucian vocabulary this type of philosophizing is described as practicing xue normally understood as studying or learning

But it also means to copy imitate model or emulate In the process of xue one imitates but with a nod to differences This book honors four models of such an attitude to xue In its examination of some of the most influential scholars in Chinese thought this is a seminal book for scholars and students in Chinese and comparative philosophy

Multimedia Technology and Enhanced Learning Yu-Dong Zhang, Shui-Hua Wang, Shuai Liu, 2020-07-18 This two volume book constitutes the refereed proceedings of the Second International Conference on Multimedia Technology and Enhanced Learning ICMTEL 2020 held in Leicester United Kingdom in April 2020 Due to the COVID 19 pandemic all papers were presented in YouTubeLive The 83 revised full papers have been selected from 158 submissions They describe new learning technologies which range from smart school smart class and smart learning at home and which have been developed from new technologies such as machine learning multimedia and Internet of Things

DIY Project Based Learning for Math and Science Heather Wolpert-Gawron, 2016-02-05 Are you interested in using Project Based Learning to revamp your lessons but aren't sure how to get started In *DIY Project Based Learning for Math and Science* award winning teacher and Edutopia blogger Heather Wolpert-Gawron makes it fun and easy Project Based Learning encourages students and teachers alike to abandon their dusty textbooks and instead embrace a form of curriculum design focused on student engagement innovation and creative problem solving A leading name in this field Heather Wolpert-Gawron shares some of her most popular units for Math and Science in this exciting new collection This book is an essential resource for teachers looking to Create their own project based learning units Engage student in their education by grounding lessons in real world problems and encouraging them to develop creative solutions Incorporate role playing into everyday learning Develop real world lessons to get students to understand the life long relevance of what they are learning Assess multiple skills and subject areas in an integrated way Collaborate with teachers across subject areas Test authentic skills and set authentic goals for their students to grow as individuals Part I of the book features five full units complete with student samples targeted rubrics a checklist to keep students on track and even Homework Hints Part II is a mix and match section of tools you can use to create your own PBL aligned lessons The tools are available as eResources on our website www.routledge.com 9781138891609 so you can print and use them in your classroom immediately

Modeling Individual Differences in Perceptual Decision Making Joseph W. Houpt, 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

Artificial Intelligence and Soft Computing Leszek Rutkowski, Marcin Korytkowski, Rafał Scherer, Ryszard Tadeusiewicz, Lotfi A. Zadeh, Jacek M. Zurada, 2017-06-01 The two volume set LNAI 10245 and LNAI 10246 constitutes the refereed proceedings of the 16th International Conference on Artificial Intelligence and Soft Computing ICAISC 2017 held in Zakopane Poland in June 2017 The 133 revised full papers presented were carefully reviewed and selected from 274 submissions The papers included in the first volume are organized in the following five parts neural networks and their applications fuzzy systems and their applications evolutionary algorithms and their applications computer vision image and speech analysis and bioinformatics biometrics and medical applications

Frontiers in the Acquisition of Literacy Claire M. Fletcher-Flinn, 2015-09-28 Learning to read and to spell are two of the most important cultural skills that must be acquired by children and for that matter anyone learning a second language We are not born with an innate ability to read A reading system of mental representations that enables us to read must be formed in the brain Learning to read in alphabetic orthographies is the acquisition of such a system which links mental representations of visual symbols letters in print words with pre existing phonological sound and semantic comprehension cognitive systems for language Although spelling draws on the same

representational knowledge base and is usually correlated with reading the acquisition processes involved are not quite the same Spelling requires the sequential production of letters in words and at beginning levels there may not be a full degree of integration of phonology with its representation by the orthography Reading on the other hand requires only the recognition of a word for pronunciation Hence spelling is more difficult than reading and learning to spell may necessitate more complete representations or more conscious access to them The learning processes that children use to acquire such cognitive systems in the brain and whether these same processes are universal across different languages and orthographies are central theoretical questions Most children learn to read and spell their language at the same time thus the co ordination of these two facets of literacy acquisition needs explication as well as the effect of different teaching approaches on acquisition Lack of progress in either reading and or spelling is also a major issue of concern for parents and teachers necessitating a cross disciplinary approach to the problem encompassing major efforts from researchers in neuroscience cognitive science experimental psychology and education The purpose of this Research Topic is to summarize and review what has been accomplished so far and to further explore these general issues Contributions from different perspectives are welcomed and could include theoretical computational and empirical works that focus on the acquisition of literacy including cross orthographic research

Contemporary Curriculum John D. McNeil, 2014-11-17 The Eighth Edition of

Contemporary Curriculum In Thought and Action prepares readers to participate in the discussion of curriculum control and other matters important to K 12 and university educators The text highlights major philosophies and principles examines conflicting conceptions of curriculum and provides the intellectual and technical tools educators and administrators need for constructing and implementing curriculum

Trust Matters Megan Tschannen-Moran, 2014-04-07 Make your school soar by escalating trust between teachers students and families Trust is an essential element in all healthy relationships and the relationships that exist in your school are no different How can your school leaders or teachers cultivate trust How can your institution maintain trust once it is established These are the questions addressed and answered in Trust Matters Leadership for Successful Schools 2nd Edition The book delves into the helpful research that has been conducted on the topic of trust in school Although rich with research data Trust Matters also contains practical advice and strategies ready to be implemented This second edition expands upon the role of trust between teachers and students teachers and administrators and schools and families Trust Matters Leadership for Successful Schools also covers a range of sub topics relevant to trust in school All chapters in the text have questions for reflection and discussion Engaging chapters such as Teachers Trust One Another and Fostering Trust with Students have thought provoking trust building questions and activities you can use in the classroom or in faculty meetings This valuable resource Examines ways to cultivate trust Shares techniques and practices that help maintain trust Advises leaders of ways to include families in the school s circle of trust Addresses the by products of betrayed trust and how to restore it With suspicion being the new norm within schools today Trust Matters is the book your school

needs to help it rise above It shows just how much trust matters in all school relationships administrator to teacher teacher to student school to family and in all successful institutions

The Psychology of Magic and the Magic of Psychology Amir Raz, Jay A. Olson, Gustav Kuhn, 2016-11-18

Magicians have dazzled audiences for many centuries however few researchers have studied how let alone why most tricks work The psychology of magic is a nascent field of research that examines the underlying mechanisms that conjurers use to achieve enchanting phenomena including sensory illusions misdirection of attention and the appearance of mind control and nuanced persuasion Most studies to date have focused on either the psychological principles involved in watching and performing magic or neuromagic the neural correlates of such phenomena Whereas performers sometimes question the contributions that modern science may offer to the advancement of the magical arts the history of magic reveals that scientific discovery often charts new territories for magicians In this research topic we sketch out the symbiotic relationship between psychological science and the art of magic On the one hand magic can inform psychology with particular benefits for the cognitive social developmental and transcultural components of behavioural science Magicians have a large and robust set of effects that most researchers rarely exploit Incorporating these effects into existing experimental even clinical paradigms paves the road to innovative trajectories in the study of human behaviour For example magic provides an elegant way to study the behaviour of participants who may believe they had made choices that they actually did not make Moreover magic fosters a more ecological approach to experimentation whereby scientists can probe participants in more natural environments compared to the traditional lab based settings Examining how magicians consistently influence spectators for example can elucidate important aspects in the study of persuasion trust decision making and even processes spanning authorship and agency Magic thus offers a largely underused armamentarium for the behavioural scientist and clinician On the other hand psychological science can advance the art of magic The psychology of deception a relatively understudied field explores the intentional creation of false beliefs and how people often go wrong Understanding how to methodically exploit the tenuous twilight zone of human vulnerabilities perceptual logical emotional and temporal becomes all the more revealing when top down influences including expectation symbolic thinking and framing join the fray Over the years science has permitted magicians to concoct increasingly effective routines and to elicit heightened feelings of wonder from audiences Furthermore on occasion science leads to the creation of novel effects or the refinement of existing ones based on systematic methods For example by simulating a specific card routine using a series of computer stimuli researchers have decomposed the effect and reconstructed it into a more effective routine Other magic effects depend on meaningful psychological knowledge such as which type of information is difficult to retain or what changes capture attention Behavioural scientists measure and study these factors By combining analytical findings with performer intuitions psychological science begets effective magic Whereas science strives on parsimony and independent replication of results magic thrives on reproducing the same effect with multiple methods to obscure parsimony and minimise

detection This Research Topic explores the seemingly orthogonal approaches of scientists and magicians by highlighting the crosstalk as well as rapprochement between psychological science and the art of deception *Advances in Multimedia Information Processing - PCM 2017* Bing Zeng, Qingming Huang, Abdulmotaleb El Saddik, Hongliang Li, Shuqiang Jiang, Xiaopeng Fan, 2018-05-09 The two volume set LNCS 10735 and 10736 constitutes the thoroughly refereed proceedings of the 18th Pacific Rim Conference on Multimedia PCM 2017 held in Harbin China in September 2017 The 184 full papers presented were carefully reviewed and selected from 264 submissions The papers are organized in topical sections on Best Paper Candidate Video Coding Image Super resolution Deblurring and Dehazing Person Identity and Emotion Tracking and Action Recognition Detection and Classification Multimedia Signal Reconstruction and Recovery Text and Line Detection Recognition Social Media 3D and Panoramic Vision Deep Learning for Signal Processing and Understanding Large Scale Multimedia Affective Computing Sensor enhanced Multimedia Systems Content Analysis Coding Compression Transmission and Processing *Teaching and Learning Secondary School Mathematics* Ann Kajander, Jennifer Holm, Egan J Chernoff, 2018-10-24 This volume brings together recent research and commentary in secondary school mathematics from a breadth of contemporary Canadian and International researchers and educators It is both representative of mathematics education generally as well as unique to the particular geography and culture of Canada The chapters address topics of broad applicability such as technology in learning mathematics recent interest in social justice contexts in the learning of mathematics as well as Indigenous education The voices of classroom practitioners the group ultimately responsible for implementing this new vision of mathematics teaching and learning are not forgotten Each section includes a chapter written by a classroom teacher making this volume unique in its approach We have much to learn from one another and this volume takes the stance that the development of a united vision supported by both research and professional dialog provides the first step **Diversity in Mathematics Education** Alan Bishop, Hazel Tan, Tasos N Barkatsas, 2014-09-20 This book presents a research focus on diversity and inclusivity in mathematics education The challenge of diversity largely in terms of student profiles or contextual features is endemic in mathematics education and is often argued to require differentiation as a response Typically different curricula text materials task structures or pedagogies are favoured responses but huge differences in achievement still result If we in mathematics education seek to challenge that status quo more research must be focussed not just on diversity but also on the inclusivity of practices in mathematics education The book is written by a group of experienced collaborating researchers who share this focus It is written for researchers research students teachers and in service professionals who recognise both the challenges but also the opportunities of creating and evaluating new inclusive approaches to curriculum and pedagogy ones that take for granted the positive values of diversity Several chapters report new research in this direction The authors are part of or have visited with the mathematics education staff of the Faculty of Education at Monash University in Melbourne Australia The chapters all focus on the ideas of development in both

research and practice recognising that the current need is for new inclusive approaches The studies presented are set in different contexts including Australia China the United States and Singapore Pattern Recognition and Computer Vision
Huimin Ma,Liang Wang,Changshui Zhang,Fei Wu,Tieniu Tan,Yaonan Wang,Jianhuang Lai,Yao Zhao,2021-10-22 The 4 volume set LNCS 13019 13020 13021 and 13022 constitutes the refereed proceedings of the 4th Chinese Conference on Pattern Recognition and Computer Vision PRCV 2021 held in Beijing China in October November 2021 The 201 full papers presented were carefully reviewed and selected from 513 submissions The papers have been organized in the following topical sections Object Detection Tracking and Recognition Computer Vision Theories and Applications Multimedia Processing and Analysis Low level Vision and Image Processing Biomedical Image Processing and Analysis Machine Learning Neural Network and Deep Learning and New Advances in Visual Perception and Understanding **Reviews in Neurorehabilitation** Pierluigi Zoccolotti,Teresa Paolucci,Won-Seok Kim,2024-02-21

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