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Maths Scope November 2014 Gauteng

**Åsa Gerger Swartling, Carlo
Aall, Emmanuel M. N. A. N. Attah**

Maths Scope November 2014 Gauteng:

Towards an embodied science of intersubjectivity: Widening the scope of social understanding research Ezequiel Di Paolo, Hanne De Jaegher, 2015-06-16 An important amount of research effort in psychology and neuroscience over the past decades has focused on the problem of social cognition. This problem is understood as how we figure out other minds relying only on indirect manifestations of other people's intentional states which are assumed to be hidden, private and internal. Research on this question has mostly investigated how individual cognitive mechanisms achieve this task. A shift in the internalist assumptions regarding intentional states has expanded the research focus with hypotheses that explore the role of interactive phenomena and interpersonal histories and their implications for understanding individual cognitive processes. This interactive expansion of the conceptual and methodological toolkit for investigating social cognition we now propose can be followed by an expansion into wider and deeply related research questions beyond but including that of social cognition narrowly construed. Our social lives are populated by different kinds of cognitive and affective phenomena that are related to but not exhausted by the question of how we figure out other minds. These phenomena include acting and perceiving together, verbal and non-verbal engagement, experiences of disconnection, management of relations in a group, joint meaning making, intimacy, trust, conflict, negotiation, asymmetric relations, material mediation of social interaction, collective action, contextual engagement with socio-cultural norms, structures and roles etc. These phenomena are often characterized by a strong participation by the cognitive agent in contrast with the spectatorial stance typical of social cognition research. We use the broader notion of embodied intersubjectivity to refer to this wider set of phenomena. This Research Topic aims to investigate relations between these different issues to help lay strong foundations for a science of intersubjectivity, the social mind writ large. To contribute to this goal we encouraged contributions in psychology, neuroscience, psychopathology, philosophy and cognitive science that address this wider scope of intersubjectivity by extending the range of explanatory factors from purely individual to interactive, from observational to participatory. **Applying Critical Mathematics Education**, 2021-07-05

There is no shortage of urgent complex problems that mathematics education can and should engage with. Pandemics, forest fires, pollution, Black Lives Matter protests and fake news all involve mathematics. Matters of life and death have a clear political dimension and are interdisciplinary in nature. They demand a critical approach. The authors in this volume showcase new insights, teaching ideas and new and unique ways of applying critical mathematics education in areas as diverse as climate change, obesity, decolonisation and ethnomathematics. This book demonstrates that there is plenty to be done with critical mathematics education. Contributors are Annica Andersson, Tonya Gau, Bartell, Richard Barwell, Lisa Lunney, Borden, Sunghwan Byun, Anna Chronaki, Brian Greer, Jennifer Hall, Victoria Hand, Kjellrun, Hiis Hauge, Beth Herbel, Eisenmann, Rune Herheim, Courtney Koestler, Kate le Roux, Swapna Mukhopadhyay, Aldo Parra, Anita Rampal, Sheena Rughubar, Reddy Toril, Eskeland, Rangnes, Ulrika Ryan, Lisa Steffensen, Paola Valero and David Wagner. **Multilingualism and Intercultural**

Communication H. Ekkehard Wolff, Pamela Maseko, Russell H Kaschula, Christine Anthonissen, Bassey E Antia, 2017-05-01
 An in depth look at the changing sociolinguistic dynamics that have influenced South African society To date there has been no published textbook which takes into account changing sociolinguistic dynamics that have influenced South African society Multilingualism and Intercultural Communication breaks new ground in this arena The scope of this book ranges from macro sociolinguistic questions pertaining to language policies and their implementation or non implementation to micro sociolinguistic observations of actual language use in verbal interaction mainly in multilingual contexts of Higher Education HE There is a gradual move for the study of language and culture to be taught in the context of professional disciplines in which they would be used for example Journalism and African languages Education and African languages etc The book caters for this growing market Because of its multilingual nature it caters to English and Afrikaans language speakers as well as the Sotho and Nguni language groups _ the largest languages in South Africa and also increasingly used in the context of South African Higher Education It brings together various inter linked disciplines such as Sociolinguistics and Applied Language Studies Media Studies and Journalism History and Education Social and Natural Sciences Law Human Language Technology Music Intercultural Communication and Literary Studies The unique cross cutting disciplinary features of the book will make it a must have for twenty first century South African students and scholars and those interested in applied language issues

On the Nature and Scope of Habits and Model-Free Control John A. Bargh, Wendy Wood, David Ellis Melnikoff, 2020-12-30 N B This Research Topic was co developed with David Melnikoff a junior Topic Editor managing this article collection but not involved in editing manuscripts submitted to this Research Topic

Color Vision Sensation and Perception Marcelo Fernandes Costa, 2016-09-15 Color vision is considered a microcosm of the visual science Special physiological and psychological processes make this scientific topic an intriguing and complex research field that can aggregates around molecular biologists neurophysiologists physicists psychophysicists and cognitive neuroscientists Our purpose is to present the frontier knowledge of this area of visual science showing in the end the future prospects of application and basic studies of color perception

The Emerging Discipline of Quantitative Systems Pharmacology Tarek A. Leil, Sergey Ermakov, 2015-09-07 In 2011 the National Institutes of Health NIH in collaboration with leaders from the pharmaceutical industry and the academic community published a white paper describing the emerging discipline of Quantitative Systems Pharmacology QSP and recommended the establishment of NIH supported interdisciplinary research and training programs for QSP QSP is still in its infancy but has tremendous potential to change the way we approach biomedical research QSP is really the integration of two disciplines that have been increasingly useful in biomedical research Systems Biology and Quantitative Pharmacology Systems Biology is the field of biomedical research that seeks to understand the relationships between genes and biologically active molecules to develop qualitative models of these systems and Quantitative Pharmacology is the field of biomedical research that seeks to use computer aided modeling and simulation to

increase our understanding of the pharmacokinetics PK and pharmacodynamics PD of drugs and to aid in the design of pre clinical and clinical experiments The purpose of QSP modeling is to develop quantitative computer models of biological systems and disease processes and the effects of drug PK and PD on those systems QSP models allow testing of numerous potential experiments in silico to eliminate those associated with a low probability of success avoiding the potential costs of evaluating all of those failed experiments in the real world At the same time QSP models allow us to develop our understanding of the interaction between drugs and biological systems in a more systematic and rigorous manner As the need to be more cost efficient in the use of research funding increases biomedical researchers will be required to gain the maximum insight from each experiment that is conducted This need is even more acute in the pharmaceutical industry where there is tremendous competition to develop innovative therapies in a highly regulated environment combined with very high research and development R a lack of adequate graduate training programs and the lack of support from government agencies that fund biomedical research However there is an active community of researchers in the pharmaceutical industry the academic community and government agencies that develop QSP and quantitative systems biology models and apply them both to better characterize and predict drug pharmacology and disease processes as well as to improve efficiency and productivity in pharmaceutical R D

Dendritic spines: from shape to function Nicolas Heck,Ruth

Benavides-Piccione,2016-02-03 One fundamental requisite for a comprehensive view on brain function and cognition is the understanding of the neuronal network activity of the brain Neurons are organized into complex networks interconnected through synapses The main sites for excitatory synapses in the brain are thin protrusions called dendritic spines that emerge from dendrites Dendritic spines have a distinct morphology with a specific molecular organization They are considered as subcellular compartments that constrain diffusion and influence signal processing by the neuron and hence spines are functional integrative units for which morphology and function are tightly coupled The density of spines along the dendrite reflects the levels of connectivity within the neuronal network Furthermore the relevance of studying dendritic spines is emphasized by the observation that their morphology changes with synaptic plasticity and is altered in many psychiatric disorders The present Research Topic deals with some of the most recent findings concerning dendritic spine structure and function showing that in order to understand how brain neuronal activity operates these two factors should be regarded as being intrinsically linked

Habits: plasticity, learning and freedom Javier Bernacer,Jose Angel Lombo,Jose Ignacio

Murillo,2015-11-05 In present times certain fields of science are becoming aware of the necessity to go beyond a restrictive specialization and establish an open dialogue with other disciplines Such is the case of the approach that neuroscience and philosophy are performing in the last decade However this increasing interest in a multidisciplinary perspective should not be understood in our opinion as a new phenomenon but rather as a return to a classical standpoint a proper understanding of human features organic cognitive volitional motor or behavioral for example requires a context that includes the global

dimension of the human being We believe that grand neuroscientific conclusions about the mind should take into account what philosophical reflection has said about it likewise philosophers should consider the organic constitution of the brain to draw inferences about the mind Thus both neuroscience and philosophy would benefit from each other's achievements through a fruitful dialogue One of the main problems a multidisciplinary group encounters is terminology the same term has a different scope in various fields sometimes even contradictory Such is the case of habits from a neuroscientific perspective a habit is a mere automation of an action It is therefore linked to rigidity and limitation However from a classical philosophical account a habit is an enabling capacity acquired through practice which facilitates improves and reinforces the performance of certain kind of actions From neuroscience habit acquisition restricts a subject's action to the learnt habit from philosophy habit acquisition allows the subject to set a distance from the simple motor performance to cognitively enrich the action For example playing piano is a technical habit considering the neuroscientific account a pianist would just play those sequences of keystrokes that had been repeatedly practiced in the past However according to the philosophical perspective it would allow the pianist to improvise and moreover go beyond the movements of their hands to concentrate in other features of musical interpretation In other words a holistic view of habits focuses on the subject's disposition when facing both known and novel situations We believe neuroscience could contribute to achieve a deeper understanding of the neural bases of habits whose complexity could be deciphered by a philosophical reflection Thus we propose this Research Topic to increase our understanding on habits from a wide point of view This collection of new experimental research empirical and theoretical reviews general commentaries and opinion articles covers the following subjects habit learning implicit memory computational and complex dynamical accounts of habit formation practical cognitive perceptual and motor habits early learning intentionality consciousness in habits performance neurological and psychiatric disorders related to habits such as obsessive compulsive disorder stereotypies or addiction habits as enabling or limiting capacities for the agent

Advances in the diagnosis and genomic research of surveillance-response activities in emerging, re-emerging, and unidentified infectious diseases Jun Feng,Tianmu Chen,Hui Chen,Xinyu Feng,Kun Yin,2023-06-14 **Psychology and Mathematics Education** Gila Hanna,Laura Macchi,Karin Binder,Laura Martignon,Katharina Loibl,2023-09-05 Modern Mathematics is constructed rigorously through proofs based on truths which are either axioms or previously proven theorems Thus it is par excellence a model of rational inquiry Links between Cognitive Psychology and Mathematics Education have been particularly strong during the last decades Indeed the Enlightenment view of the rational human mind that reasons makes decisions and solves problems based on logic and probabilities was shaken during the second half of the twentieth century Cognitive psychologists discovered that humans thoughts and actions often deviate from rules imposed by strict normative theories of inference Yet these deviations should not be called errors as Cognitive Psychologists have demonstrated these deviations may be either valid heuristics that succeed in the environments in which humans have evolved

or biases that are caused by a lack of adaptation to abstract information formats Humans as the cognitive psychologist and economist Herbert Simon claimed do not usually optimize but rather satisfice even when solving problem This Research Topic aims at demonstrating that these insights have had a decisive impact on Mathematics Education We want to stress that we are concerned with the view of bounded rationality that is different from the one espoused by the heuristics and biases program In Simon s bounded rationality and its direct descendant ecological rationality rationality is understood in terms of cognitive success in the world correspondence rather than in terms of conformity to content free norms of coherence e g transitivity

Network-based Mathematical Modeling in Cell and Developmental Biology Susan Mertins ,Michael Blinov,2024-08-22 The vast amount of knowledge in Cell Signaling gathered through reductionist efforts and omics technology is poised to approach a Systems Biology understanding of precise representations of cell structure and function and predictions at multi scale levels despite the complexity Super resolution microscopy and single cell analysis are also providing opportunities to explore both spatial and temporal landscapes Notably many basic biological processes have been studied capturing mechanistic detail with the goal to understand cellular proliferation and differentiation gene regulation morphogenesis metabolism and cell cell communication Similarly at the intracellular level addressing functions such as self assembly phase separation and transport is leading to insights not readily understood as linear pathways Therefore network based mathematical modeling delineating dynamic biochemical reactions through ordinary and partial differential equations promises to discover emergent biological properties not heretofore expected

Handbook of Research on Innovative Approaches to Early Childhood Development and School Readiness Betts, Anastasia Lynn,Thai, Khanh-Phuong,2022-02-11 School readiness is as much about schools recognizing the existing capabilities and knowledge each child has when they enter school as it is about supporting children and families in their preparation for entering formal learning environments Effective approaches that address learning variability must take these differences into account recognizing and leveraging opportunities inherent in the child s ecosystem of resources The Handbook of Research on Innovative Approaches to Early Childhood Development and School Readiness assembles the most current research and thought leadership on the ways in which innovative education stakeholders are working together to impact the most critical years in a child s life the years leading up to and including kindergarten Covering topics such as change agency experience quality and social emotional development this book is a crucial resource for educational researchers child development professionals school administrators pre K teachers pre service teachers program managers policymakers non profit service organizations early childhood EdTech developers curriculum developers and academicians

Producing and Analyzing Macro-Connectomes: Current State and Challenges Mihail Bota,Sharon Crook,Marcus Kaiser,2016-10-20 Construction of comprehensive and detailed brain regions neuroanatomical connections matrices macro connectomes is necessary to understand how the nervous system is organized and to elucidate how its different parts interact Macro connectomes also are the structural

foundation of any finer granularity approaches at the neuron classes and types meso connectomes or individual neuron micro connectomes levels The advent of novel neuroanatomical methods as well as combinations of classic techniques form the basis of several large scale projects with the ultimate goal of producing publicly available connectomes at different levels A parallel approach that of systematic and comprehensive collation of connectivity data from the published literature and from publicly accessible neuroinformatics platforms has produced macro connectomes of different parts of the central nervous system CNS in several mammalian species The emergence of these public platforms that allow for the manipulation of rich connectivity data sets and enable the construction of CNS macro connectomes in different species may have significant and long lasting implications Moreover when these efforts are leveraged by novel statistical methods they may influence our way of thinking about the brain Hence the present brain region centric paradigm may be challenged by a network centric one Ultimately these projects will provide the information and knowledge for understanding how different neuronal parts communicate and function developing novel approaches to diseases and disorders and facilitating translational efforts in neurosciences With this Research Topic we bring together the current state of macro connectome related projects including the large scale production of thousands of publicly available neuronatomical experiments databases with tens of thousands of connectivity records collated from the published literature and the newest methods for displaying and analyzing this information This topic also includes a wide range of challenges and how they are addressed from platforms designed to integrate connectivity data across different sources species and CNS levels of organization to languages specifically designed to use these data in models at different scales of resolution to efforts of 3D reconstruction and data integration and to approaches for extraction and representation of this knowledge Finally we address the present state of different efforts of meso connectomes construction and of computational modeling in the context of the information provided by macro connectomes

Associations between Reading and Mathematics: Genetic, Brain Imaging, Cognitive and Educational Perspectives Sarit Ashkenazi, Orly Rubinsten, Bert De Smedt, 2017-10-05 Converging evidence demonstrates a strong link between reading and mathematics multiple cognitive processes are shared between reading and mathematics including the representation and retrieval of symbolic information attention working memory and cognitive control Additionally multiple brain networks are involved in both math and reading and last common genetic factors might influence both reading and math Hence it comes as no surprise that there are meaningful associations between aspects of math and reading abilities Moreover comorbidity rates between math learning disabilities MD and reading disabilities RD are high up to 66% and prevalence rate of the comorbid condition is reported to be more common than the prevalence rate of isolated math learning disabilities Accordingly the goal of the research topic is to explore the underline mechanisms of this overlap between reading and math The research topic aims to include the following topics Genetics it has been found that both RD and MD are based on genetic factors and run in families Moreover math problem solving shares significant genetic overlap with general

cognitive ability and reading decoding whereas math fluency shares significant genetic overlap with reading fluency and general cognitive ability Hence this topic will explore the shared and unique genetic risk factors to RD and MD In addition to shared and unique genetic influence on reading and math Neural perspective converging evidence from both structural and multiple functional imaging studies involving a wide range of numerical tasks points to the intraparietal sulcus IPS as a core region that involve in quantity manipulation However several additional brain areas such as frontoparietal and temporoparietal areas were found to be involved in numerical tasks Individuals with MD show deficits in a distributed set of brain regions that include the IPS fusiform gyrus in posterior brain regions and pre frontal cortex regions Similarly converging evidence indicate that the left hemisphere regions centered in the fusiform gyrus temporoparietal cortex and pre frontal cortex regions are strongly involve in typical reading and present lower activity connectivity or abnormal structure in RD Thus there is a meaningful neural overlap between reading and math Hence the authors can submit empirical studies on the role of several of brain regions that are involved in math and reading commonality and diversity both in the typical and a typical development Cognitive factors that play role in mathematics and reading and comorbidity between RD and MD There is a long lasting debate whether MD and RD originate from unique cognitive mechanisms or not Multiple cognitive processes are shared between reading and mathematics Therefore impairments in any one of domain general skills could conceivably play an important role in both pure and comorbid conditions Moreover it has been suggested that phonological processing has a significant role in some aspects of numerical processing such as retrieval of arithmetical facts Education it will be interesting to look at the effect of interventions that aim to improve reading such as phonological awareness and there transfer effect on improving mathematical processing Alternatively it will be good to test whether math interventions will improve reading

Learning and Memory: A Comprehensive Reference ,2017-07-07 Learning and Memory A Comprehensive Reference Second Edition Four Volume Set is the authoritative resource for scientists and students interested in all facets of learning and memory This updated edition includes chapters that reflect the state of the art of research in this area Coverage of sleep and memory has been significantly expanded while neuromodulators in memory processing neurogenesis and epigenetics are also covered in greater detail New chapters have been included to reflect the massive increase in research into working memory and the educational relevance of memory research No other reference work covers so wide a territory and in so much depth Provides the most comprehensive and authoritative resource available on the study of learning and memory and its mechanisms Incorporates the expertise of over 150 outstanding investigators in the field providing a one stop resource of reputable information from world leading scholars with easy cross referencing of related articles to promote understanding and further research Includes further reading for each chapter that helps readers continue their research Includes a glossary of key terms that is helpful for users who are unfamiliar with neuroscience terminology

Integrating Visual System Mechanisms, Computational Models and Algorithms/Technologies Hedva

Spitzer,Xavier Otazu,Hagit Hel-Or,2020-05-26 **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 **Frontiers in robotics and AI editor's picks 2022** Kostas J.

Kyriakopoulos,2023-03-10 **Novel Technological and Methodological Tools for the Understanding of Collective Behaviors** Elio Tuci,Vito Trianni,Simon Garnier,Andrew King,2020-01-23 **New Approaches to Local Climate Change Risk Analysis** Åsa Gerger Swartling,Carlo Aall,Emmanuel M. N. A. N. Attoh,2023-12-12 The JPI Climate AXIS project

Unpacking climate impact CHAINs A new generation of action and user oriented climate change risk assessments UNCHAIN is approaching its end date 31 12 2022 and the project is looking for an opportunity to collect its remaining scientific publications into a Research Topic The overall objective of UNCHAIN is to improve climate change risk assessment frameworks aimed at informed decision making and climate change adaptation action through six methodological innovations To also cover the possible need for long term and large scale efforts of societal transformation To refine a structured method of co production of knowledge and integrate this into impact modelling To develop and test an applicable framework for analyzing how societal change can affect local climate change vulnerabilities To develop and test a standardized analytical

framework for addressing uncertainties involved in local decision making on climate change adaptation To integrate the trans national impacts of climate change and To link mitigation and adaptation in climate risk and vulnerability assessments

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