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PHYSICAL SCIENCES PAPER 1 (PHYSICS)

GRADE 12

TERMS & DEFINITIONS, QUESTIONS & ANSWERS PER TOPIC

2019

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R P Meena

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The long and short of mental time travel-- self-projection over time-scales

large and small James M. Broadway, Claire M. Zedelius, Jonathan W. Schooler, Simon Grondin, 2015-07-02 Researchers working in many fields of psychology and neuroscience are interested in the temporal structure of experience as well as the experience of time at scales of a few milliseconds up to a few seconds as well as days months years and beyond. This Research Topic supposes that broadly speaking the field of time psychology can be organized by distinguishing between perceptual and conceptual time scales. Dealing with conceptual time mental time travel also called mental simulation self projection episodic semantic memory prospection foresight allows humans and perhaps other animals to imagine and plan events and experiences in their personal futures based in large part on memories of their personal pasts as well as general knowledge. Moreover contents of human language and thought are fundamentally organized by a temporal dimension enmeshed with it so thoroughly that it is usually expressible only through spatial metaphors. But what might such notions have to do with experienced durations of events lasting milliseconds up to a few seconds during the so called present moment of perception action cycle time. This Research Topic is organized around the general premise that by considering how mental time travel might scale down to time perception and vice versa no less progress and integrative synthesis within and across scientific domains might be facilitated. Bipolar configurations of future and past orientations of the self may be repeated in parallel across conceptual and perceptual time scales subsumed by a general Janus like feedforward feedback system for goal pursuit. As an example it is notable that the duality of prospection and semantic episodic memory operating at conceptual time scales has an analogue in perception action cycle time namely the interplay of anticipatory attention and working memory. Authors from all areas of psychology and neuroscience are encouraged to submit articles of any format accepted by the journal Original Research Methods Hypothesis Theory Reviews etc which might speak to questions about time and temporal phenomena at long and or short time scales

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The Criminal Justice Periodical Index , 1975

Optimal Enterprise Mikhail V. Belov, Dmitry A. Novikov, 2021-07-28 In the modern world most gross product is created

within Enterprise firms project programs state agencies transnational corporations and their divisions as well as various associations and compositions of the above entities Enterprises being on the one hand complex and on the other hand widespread systems are the subject matter of cybernetics system theory operations research management sciences and many other fields of knowledge However the complexity of the system obstructs the development of mathematically rigorous foundations for Enterprise control Moreover methods of operations research and related sciences which are widely used in practice provide optimization of the constituents of an Enterprise without modeling it as a whole system But the optimization of parts does not lead to the optimality of the whole and also the absence of top down and holistic mathematical models of Enterprise contradicts the principle of holism and the system approach The approach in this book looks first at Enterprise Systems and their essential aspects as complex sociotechnical systems composed of integrated sets of structural and process models Chapters 1 and 2 A uniform description of all the heterogeneous fields of the modern Enterprise marketing sales manufacturing HR finance etc is then made and the Enterprise Control Problem is posed as a top down and holistic mathematical optimization problem Chapter 3 Original models and methods of contract theory Chapter 4 technology management Chapter 5 human behavior and human capital Chapter 6 and complex activity and resource planning Chapter 7 are developed to solve the problem Structural processes and mathematical models constitute an Optimal Enterprise Control Framework Chapter 8 that provides a practical solution to the Enterprise Control Problem This book is a resource for postgraduate and doctoral students postdoctoral researchers and professors with research interests in the following fields of science Fundamental Complex Systems study Complex Systems Engineering Enterprise Systems Engineering Applications of Operations Research Optimization Probability and Stochastic processes to Management Science Economics and Business Theory of the Firm Business and Management general strategy leadership organization management operations management and management information systems Theory of Business Processes Business Processes Improvement and Reengineering

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