



Conference Abstract

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Competing Interest

The authors declare no competing interests.

Additional information is available at the end of the article.

Conference Abstract

THE SCIENCE OF LEARNING MEETS THE LEARNERS WITH INSIGHTS FROM THE HOLY QUR'AN

ALTAF QADER

Dr. Altaf Qadeer is a Member of ESERA (European Science Education Research Association). He has served as the Adjunct Professor and Site-Coordinator at York University (for teacher practicums). He is also a researcher with YCAR at York University. He has also studied Educating Global Citizens through the professional education program of Harvard Graduate School of Education. He has made contributions as a researcher at the Department of Science Education, Faculty of Educational Sciences, Granada University, Spain. He has also been a member of the Master of Teaching, MT Partnership Advisory Committee (OISE), University of Toronto. He was also a member of ICDE (which is a key partner with UNESCO). He has a variety of scholarly interests, including his research about multiple-nets, creativity, lexicography, Urdu creative writing, religious studies, pioneering research journals for children, designing and testing teaching tools & media related work. One of his ideas to inspire education at international level through the multilingual power of Canada was also published by the Toronto Star. He has also advocated for multilingualism. One of the focuses of his work is to promote the literature of those languages, which do not have a strong formal representation at international forum. Dr. Altaf Qadeer has also recently written two books: Living in Multiple Nets - Pathways to empower creativity. Another book in Urdu: Husn Taleem Hr Dil Kay Liyay (The Beauty of Education for Every Heart).

Ethics approval and consent to participate: No ethical approval needed for this research work.

Consent for publication: Author is agreed to submit this abstract for publication in this research journal.

Availability of data and materials: The information and data collected and/ or incorporated in this study is included in this manuscript.

Key words: Science, Learning.

Abstract

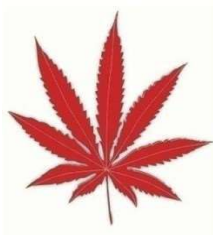
On November 9, 2018 Jacob L. S. Bellmund, Peter Gärdenfors, Edvard I. Moser

(Nobel Laureate 2014) and Christian F. Doeller published their research, in a journal SCIENCE 362, 654 (2018). In this research they analyzed some data about 'Humans think using their brain's navigation system.' They have combined individual threads of evidence to form a theory of human thinking. Although the theory is at a very early stage; it brings some possibilities for further research. The authors also conclude that: "These processes are especially useful for making inferences about new objects or situations, even if we have never experienced them." "Place and grid cells might have evolved to represent not only navigable space, but to also map dimensions of experience spanning cognitive spaces governed by geometric principles."

The team of the article Science 362, 654 (2018) introduces the concept of "cognitive space" with a data analysis.

In view of this framework my idea for math learning using "Mathmat" (Qadeer 1998) mappings from one domain to another may be exploited. Another idea is my hypothesis along with some aspects of the inner and outer links between the brain and outer learning environment (Qadeer 2017) which can also be a possibility to analyze in the future. The notion of cognitive infinity is a dimension to think further with the framework of cognitive spaces.

The further development of this work may bring useful links to many fields—science, education, psychology, cognition, environmental studies. In this presentation some ideas in relation to the outer and inner connections are highlighted in various fields. The Holy Qur'an shows a number of examples to guide our thinking to make connections of various types. Holy Qur'an provides multitudinous insights to inspire frames of interfaces, multiple forms of deep understanding with revelation and rationality along with a highly insightful way of its presentation sequence. It is interesting and intriguing to explore a range of such connecting paradigms. What are the possibilities to work on our current challenges! How your creativity can be inspired!



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