



## Book Review

# Book Review: AI and Developing Human Intelligence: Future Learning and Educational Innovation

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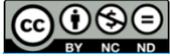
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## Abstract

Artificial Intelligence and its effects on the field of education are among the most curious subjects. I reviewed the book "AI and Developing Human Intelligence: Future Learning and Educational Innovation" by John Senior and Eva Gyarmathy on the impact of developing technologies on future learning and education processes. Although it is written for general education, some codes for the gifted can also be analyzed from this book.

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AI AND DEVELOPING  
HUMAN INTELLIGENCE  
Future Learning and Educational Innovation

John Senior and Eva Gyarmathy

**Title:** AI and Developing Human Intelligence Future Learning and Educational Innovation

**Author(s):** John Senior and Éva Gyarmathy

**ISBN:** 9780367404888

**Pages:** 264

**Published Date:** September 17, 2021

**Publisher:** Routledge

This book about Artificial Intelligence and developing human intelligence is quite relevant to those teachers who provide educational intervention for gifted/talented and creative children. This book further helps to elaborate on the current status of AI in terms of what is transpiring in terms of educational innovation. And the past two years have taught us a lot about educational innovation as so many of us have had to go online and provide education to students via Zoom or Microsoft Teams, perhaps using Prezi or Skype or ( gasp ! ) even Power Points.

No one was really prepared for COVID and the chaos that ensued. However, the authors attempt to provide a sort of survival kit for the 21<sup>st</sup> century. We are confronted with a new learning landscape. We are confronted with platforms that are not necessarily “ user-friendly” ( this term will be encountered more and more over the next ten years) while at the same time, the amount of skills, knowledge and information is increasing at an exponential rate.

Information processing and the learning curve will become increasingly important. Students will need to be able to peruse a lot of information, think critically about it, evaluate, integrate and synthesize it and then reach some conclusions as to its validity.

Each chapter is full of relevant realms of exploration. Topics such as “ cultural arrears “,” disability and difference” and “ the new “ learning landscapes”. All the while, the authors truthfully and honestly look at and examine the deficiencies-- of a stimulus rich environment, deficiencies in constructive coping strategies, material resources, and knowledge and abilities.

Key word that permeates the book- intelligence- what is it, is it culture-dependent are there different kinds of intelligence, and how does one’s environment and perhaps culture influence intelligence. Is there “ adaptive intelligence’ and how does social-emotional intelligence fit into the big picture.

Certainly, the world is changing and the authors recognize this and attempt to address the changing nature of employment and what they regard as the needed necessary learning behaviors of the future.

And just when you think you had a grasp on what the authors were proposing- they throw the reader yet another curve ball with a chapter on “ the mental health of machines”.

Throughout the book, the authors provide some books for future recommended reading and they ask provocative questions that need to be mulled over thoughtfully-something that teachers do not always have the time to let students do.

This is a challenging book- one that should be read carefully and slowly- and perhaps purchased in paperback so that one can take copious notes, and reflect on the insights of the authors. Not everyone is facing the future head on- but for those who are trying to do so- this book has ample guidance and assistance for those future thinking individuals who will be on the forefront of education, teaching and learning in the next decade.

### **Biodata of Author**



Prof. Dr. **Michael F. Shaughnessy** is currently Professor of Educational Studies at Eastern New Mexico University in Portales, New Mexico USA. He has served as Editor in Chief of Gifted Education International and can be reached electronically at Michael.Shaughnessy@enmu.edu. His orcid i.d. is 0000 0002 1877 1319. His current research interests include talent development and intellectual assessment as well as the role of personality in giftedness, talent and creativity.