



Accelerated Expertise: Training for High Proficiency in a Complex World (Expertise: Research and Applications Series)

By Robert R. Hoffman, Paul Ward, Paul J. Feltovich, Lia DiBello, Stephen M. Fiore, Dee H. Andrews

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Speed in acquiring the knowledge and skills to perform tasks is crucial. Yet, it still ordinarily takes many years to achieve high proficiency in countless jobs and professions, in government, business, industry, and throughout the private sector. There would be great advantages if regimens of training could be established that could accelerate the achievement of high levels of proficiency. This book discusses the construct of 'accelerated learning.' It includes a review of the research literature on learning acquisition and retention, focus on establishing what works, and why. This includes several demonstrations of accelerated learning, with specific ideas, plans and roadmaps for doing so. The impetus for the book was a tasking from the Defense Science and Technology Advisory Group, which is the top level Science and Technology policy-making panel in the Department of Defense. However, the book uses both military and non-military exemplar case studies.

It is likely that methods for acceleration will leverage technologies and capabilities including virtual training, cross-training, training across strategic and tactical levels, and training for resilience and adaptivity.

This volume provides a wealth of information and guidance for those interested in the concept or phenomenon of "accelerating learning"? in education, training, psychology, academia in general, government, military, or industry.

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Editorial Review

Review

"This is a very important book, taking the issue of skill development to its limit. Anyone interested in skill development will want to read this for the state-of-the-art and for its goldmine of ideas for accelerated learning and facilitated retention." - Douglas Herrman, Editor Emeritus, *Cognitive Technology*

"The authors use a systematic and thorough approach to identify and evaluate issues and research underlying learning, skill, and knowledge retention and requirements for successful application of accelerated learning. As well, they use a wealth of references?listed on 46 pages, nearly 20 percent of the total length of the book?to support their findings and recommendations." - Dr. David Schroeder, *PsycCRITIQUES*

About the Author

Robert R. Hoffman is a Senior Research Scientist at the Florida Institute for Human and Machine Cognition in Pensacola, Florida.

Paul Ward is Professor of Psychology and Head of the Centre for Sports Science and Human Performance at the University of Greenwich, UK.

Paul J. Feltovich is a Research Scientist at the Florida Institute for Human and Machine Cognition in Pensacola, Florida.

Lia DiBello, Ph.D., is the CEO and Director of Research at WTRInc., a cognitive sciences research firm that develops products for enhancing business decision-making.

Stephen M. Fiore, Ph.D., is President of the Interdisciplinary Network for Group Research, a faculty member in the University of Central Florida's Cognitive Sciences Program in the Department of Philosophy, and Director of the Cognitive Sciences Laboratory at UCF's Institute for Simulation and Training.

Dee H. Andrews is a Senior Research Psychologist with the Army Research Institute for the Behavioral and Social Sciences in Mesa, Arizona.

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