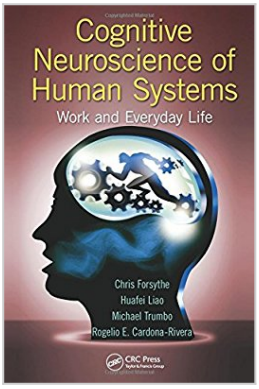

Cognitive Neuroscience of Human Systems: Work and Everyday Life (Human Factors and Ergonomics)

By Chris Forsythe, Huafei Liao, Michael Christopher Stefan Trumbo, Rogelio E. Cardona-Rivera

Cognitive Neuroscience of Human Systems: Work and Everyday Life (Human Factors and Ergonomics) By Chris Forsythe, Huafei Liao, Michael Christopher Stefan Trumbo, Rogelio E. Cardona-Rivera

While there have been tremendous advances in our scientific understanding of the brain, this work has been largely academic, and often oriented toward clinical publication. **Cognitive Neuroscience of Human Systems: Work and Everyday Life** addresses the relationship between neurophysiological processes and the performance and experience of humans in everyday life. It samples the vast neuroscience literature to identify those areas of research that speak directly to the performance and experience of humans in everyday settings, highlighting the practical, everyday application of brain science.

The book explains the underlying basis for well-established principles from human factors, ergonomics, and industrial engineering and design. It also sheds new light on factors affecting human performance and behavior. This is not an academic treatment of neuroscience, but rather a translation that makes modern brain science accessible and easily applicable to systems design, education and training, and the development of policies and practices. The authors supply clear and direct guidance on the applications of principles from brain science to everyday problems.

With discussions of topics from brain science and their relevance to everyday activities, the book focuses on the science, describing the findings and the studies producing these findings. It then decodes how these findings relate to everyday life and how you can integrate them into your work to achieve more effective outcomes based on a fundamental understanding of how the operations of the human brain produce behavior and modulate performance.

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Editorial Review

Review

"I think this book is very important in that it allows the layperson to connect the pieces of the brain puzzle back to him or herself. I think many people conceptually understand that caffeine is a psychoactive substance. The popular media does a good job at advertising how such substances have benefits to our cognitive processes like memory. However, to really grasp that each individual needs the proper dosing at the right time for caffeine to be beneficial is lost. Most people use caffeine to combat sleep deprivation and are not aware of the harm they are doing when they do not consider how caffeine actually affects the brain." ?Cali Fidopiastis, University of Alabama at Birmingham

About the Author

Chris Forsythe is a Distinguished Member of the Technical Staff at Sandia National Laboratories, in Albuquerque, NM. He has a PhD in Experimental Psychology and MS in Biopsychology from the University of Memphis. His primary expertise lies in the application of technology to improve human performance. He has worked in diverse areas that include: human-machine transactions, high consequence systems, cyber, automotive systems, training and neurotechnology. His research interests encompass individual differences in the neurophysiology of human performance, advanced training technologies development, and human-machine systems integration. He regularly conducts seminars on the application of brain science to everyday life for audiences that extend from professional conference attendees to elementary school age children, and works extensively with youth to promote their interest in science and technology.

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Michael C.S. Trumbo is a doctoral candidate in the Cognition, Brain, and Behavior program within the University of New Mexico Psychology Department, where he is further affiliated with the Psychology Clinical Neuroscience Center. Additionally, Michael conducts research on human performance at Sandia National Laboratories and through The Mind Research Network and Lovelace Biomedical and Environmental Research Institute. Research interests center on facilitation of human performance in both clinical and healthy populations in a variety of professional and educational realms, with a particular emphasis on the use of electrical brain stimulation in order to achieve such.

Rogelio E. Cardona-Rivera is a Ph.D. student in Computer Science at North Carolina State University and is advised by Dr. R. Michael Young in the Liquid Narrative Research Group. Rogelio’s thesis work is at the intersection of artificial intelligence, cognitive science, narratology and game design and focuses on creating

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