Foreword

As in Wikipedia, living systems get constant feedback from their external environment. Imagine that you are a principal at a high school. It is raining. A student walks into the school and almost slips in front of the door. You are very busy with other administrative work, but you make a mental note: “I must put a mat in front of the door.” About a minute later, another student comes in and she also slips. You immediately need to take an action against the next dilemma.

Your students—or if you have a business, your customers—are slipping but, because you don’t see them slip, you don’t take any action. Web 3.0 gives you an opportunity to take an action according to your students’/customers’ needs. This book is like a recipe to understand what the impacts of Web 2.0 and Web 3.0 are in education and in work. You will also get a chance to learn more about new teaching strategies to transform professional activities through Semantic Web. Semantic Web is beginning to play a significant role in many diverse areas, marking a turning point in the evolution of the Web.

Artificial Intelligence Technologies and the Evolution of Web 3.0 provide various perspectives of the use of these technologies in different sectors. The book discusses how Web 3.0 changes the academic role, how to include Semantic Web in Learning Management Systems, what is proposed in 3.0 e-Learning and Semantic Web literature, computational learning in healthcare systems, how Web 3.0 has changed marketing strategies, evolution and impact of Web 3.0 and Artificial Intelligence on e-Learning, and how to use Big Data in training sessions.

This book addresses Web 3.0 across sectors in detail and presents the most current research on the effectiveness of Web 3.0. This book gives a broader perspective from different sectors such as education, marketing, health, and industry. I welcome this collection of chapters on Web 3.0 and Artificial Intelligence and commend the contributors for their valuable work.

I believe that this book will be of interest to educators, learners, and other professionals in exploring techniques that improve the quality of work, education and learning outcomes using Web 3.0.

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Sehnaz Baltaci Goktalay completed her MSc on Instructional Design, Development, and Evaluation at Syracuse University, NY, and PhD on Instructional Technology at SUNY, Albany, NY. She has been working at Uludag University, Turkey as an assistant professor of Department of Computer Education and Instructional Technologies and the Associate Dean of the Faculty of Education. Her research interests are e-learning and integration of Web 2.0 technologies in education, social networking, clinical supervision model, and best practices in teacher education. She is involved in several national, international, and European Union projects on Web 2.0 technologies and new teacher education.