From the Editor-in-Chief

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Welcome to *3D RESEARCH*! *3D RESEARCH* is the first journal devoted to materials materials and technologies for the generation, processing, and display of information in three dimensions. 3D is where disciplines merge and where they diverge into a remarkable range of applications from entertainment to health care that touch, or will soon touch, the lives of millions. The journal emphasizes research that seeks to enable technological developments in the field of 3D and to further the goal of unifying 3D research in engineering, physics, materials science, chemistry, as well as psychology and neuroscience. It is an exciting time when we can not only peer into the world with 3D, but also bring great attention to the field itself with the recent remarkable progress in media generation, representation, compression, display, and the availability of ever-increasing bandwidth. With the emergence of these content and display technologies, 3D has been widely recognized as the leading technology for future media and display.

In the great tradition of science, one's work on synthesis, assembly, diagnostics, and measurement can be published and reproduced anywhere in the world. However, the lack of a single, high-quality, comprehensive venue for publication has been a handicap in the development of the field of 3D research to date. Given the complexity of approaches applied, complete and in-depth articles are required to help us to build on each other's work. It was for this purpose that scientists in a number of fields suggested starting *3D RESEARCH*, which we believe fills an empty niche in the literature.

Now we will have the chance to speak across disciplinary boundaries and to share approaches and pitfalls. Our goal is to look not only where we are going but where we can reach, to expose opportunities and challenges, and to help catalyze advances in the field by extending the fundamental understanding of technologies and perceptual issues

associated with the generation, processing, and display of information. Already, numerous authors, reviewers and editors, along with the staff at Springer, have contributed to assembling the March, 2010 issue in which you will find a wide spectrum of interdisciplinary research. We hope that you will join us on this adventure to help fulfill the promise of *3D RESEARCH*.

For additional information about the journal, including a statement of aims and scope, a description of the types of papers published, a listing of our distinguished Editorial Board, a frequently updated News page, and the online submission portal, please see the *3D RESEARCH* home page at <http://www.springer.com/engineering/signals/journal/13319/>. Finally, I would like to thank my fellow editors and the Springer staff for the successful launch of *3D RESEARCH*.

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