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Henri-Jean Drouhin
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Introduction

The ninth edition of the Spintronics symposium of the SPIE conference gathered more than one hundred and fifty speakers in San Diego, California, United States, from Sunday 28 August to Thursday 1 September 2016.

In line with the eight previous editions, the Spintronics conference held in the framework of the Optics + Photonics symposium, covered most of the hot topics in Spintronics. The conference was also an invaluable opportunity for informal and extremely stimulating discussions between experts as well as for networking in a friendly atmosphere, witnessing for the dynamism of our field of research.

With 32 oral sessions plus one poster session, the symposium gave a broad spectrum of hot topics in Spintronics.

Recent fundamental results at the forefront of theoretical, experimental, and technological developments have been discussed. Special attention (with 2 sessions) has been paid to the developments of MRAMs, spin-hall effects, quantum well and quantum dots, spin-orbit effects, skyrmions, Majorana states and topological insulators, magnonics, and superconductivity. Many other active topics were covered, including: spin ice, spin coherence, ultrafast magnetization dynamics, voltage control, spin dynamics, spin photonics and plasmonics, magneto-acoustic and magnetic-plasmonics, transition metal dichalcogenides, magnetic circular dichroism, magnetic tunnel junctions, and nanomagnetism.

Additionally, we are grateful to the SPIE staff and to the program committee members who did a tremendous work. Special thanks to all colleagues and friends who helped organizing focused sessions. We warmly thank all the authors and speakers for their active participation. They have made this conference a great success.

Henri-Jean Drouhin
Jean-Eric Wegrowe
Manijeh Razeghi

