Spintronics XII

This conference has an open **call for papers:**

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Submission guidelines for Authors and Presenters

Important Dates

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Abstract Due:
30 January 2019

Author Notification:
8 April 2019

Manuscript Due Date:
17 July 2019

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Call for Papers

For years the spin degree of freedom has been directly used as an information support in nanometer-scale devices. Today applications mostly concern the huge market of hard-drive read heads, nonvolatile magnetic memories (MRAMs), or magnetic logic units. Recent developments are being considered for spin-based logic or quantum computing. New topics are emerging in frontier fields, e.g. Skyrmions and domain-wall manipulation, topological insulators, Majorana fermions, spin photonics and spin optics (the latter being based on recent developments in plasmonics), or spin-caloric phenomena. These advances make use of the fascinating developments of new materials.

The purpose of the conference is to provide a broad overview of the state-of-the-art and perspectives, bringing together experts from different communities:

fundamental physics (experimental and theoretical), materials science and chemistry, fabrication processes and industrial developments, etc. Contributions for this conference are encouraged in particular in the following areas:

- spin-coherence, semiconductor spin physics, quantum wells and quantum dots
- magnetic nanostructures, micromagnetism, spin-precession, and magnonics
- spin-injection, spin-transfer, spin-Hall and related effects
- new materials (graphene and chalcogenides, oxides, organics, etc.)
- topological matter, skyrmions
- new structures and applications (magnetoresistive devices, MRAMs, spin logic, crystalline tunnel barriers, etc.)
- neuromorphic computing
- spin photonics, spin lasers, and spin optics.

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