

Waveform Diversity & Design Conference

Kauai, Hawaii

22 - 27 January 2012

Call for Papers

Please join us for the 2010 International Waveform Diversity & Design Conference in Niagara Falls, Canada. This fifth conference in the on-going series will continue to build on the success of the previous four conferences by bringing together researchers from numerous diverse backgrounds and specialties to facilitate the exchange and cross-fertilization of ideas and research. Recent advances in hardware technology are enabling a much wider range of design freedoms to be explored for sensor and communication systems. As a result, there are emerging and compelling changes in system requirements such as more efficient spectrum usage, higher sensitivities, transmitter/receiver agility, greater information content, improved robustness to errors, etc. The combination of these is fueling a worldwide interest in the subject of waveform design and the use of waveform diversity techniques. The organizers of this conference are particularly interested in seeing the results of experimentally collected data.

Conference Venue



Kauai Beach Resort

Kauai, Hawaii

4331 Kauai Beach Drive Lihue, Kauai, Hawaii 96766
Email: kbrreservations@aquaresorts.com
Reservations: 866-536-7976

Our 2012 IEEE International Waveform Diversity & Design Conference will be held at the **Kauai Beach Resort** in Kauai, Hawaii. Enjoy a week of technical information and interchange while you feel the beauty of the breathtaking "aina" (land) of Kauai's wild eastern coast. Located on Kauai's Coconut Coast-5 minutes from Lihue Airport - Kauai Beach Resort is a short drive to Kauai's natural treasures, such as the Napali Coast, Waimea Canyon, Wailua Falls and Hanalei Bay. Discover pristine beaches, waterfalls, majestic mountains, championship golf courses, shopping, and Kauai adventures. Make your reservations now for the 2012 WDD conference!

866-536-7976 Reservations

Abstract Collection Beginning Soon!

For more information, and/or to submit an abstract, please visit our website at:

<http://www.waveformdiversity.org>

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Abstract Guidelines

The WDD Organizing Committee invites original contributions to Waveform Diversity and Design in the general areas of Communications, Radar, Sonar, etc. Abstracts of 1-2 pages are solicited which should include examples of data and illustrations. Specifically, topics to be included are:

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|-----------------------------------|---------------------------------|
| Space-Time Adaptive Processing | Channel Estimation/Equalization |
| Bistatic/Multi-static Operation | Bandwidth-on-Demand |
| Error Correction Coding | EM Phenomenology |
| Multiple-access Schemes | Hardware Efficiency |
| Target Detection | Ultra-wideband Operation |
| Synchronization | Multi-function Operation |
| Interference Suppression | RF Compatibility |
| Passive Sensing Operation | Impulsive Systems |
| Target-adaptive Matched Filtering | Software Agile Radio/Radar |
| Radar Systems | 3G/4G Communication Systems |
| RF Hitchhiking | Multi-User Operation |
| Laser Systems | Modulation Schemes |
| Interferometry | MIMO Communications |
| Tracking | Polarimetry |
| SAR/ISAR | RF Imaging |
| Noise Radar | Sensor Fusion |
| Tomography | Sonar Systems |

Abstracts are due on or before 25 June 2011 submitted via the online collection system available at www.waveformdiversity.org. Authors of accepted papers will be notified by 10 September, 2011 and will receive instructions for publication at that time. Complete papers will be required by 19 November, 2011.

Dates to Remember

Abstracts Due: 25 June 2011

Author Notification: 10 Sept 2011

Final Paper Submissions: 19 Nov 2011