

IET Microwaves, Antennas & Propagation Call for Papers

SPECIAL ISSUE ON:

Advanced Tuneable/Reconfigurable and Multi-Function RF/Microwave Filtering Devices

Recent trends towards the design of highly-flexible multi-purpose RF transceivers for emerging applications, such as software-defined radio and radar systems, have re-launched the interest into reconfigurable high-frequency electronics. Microwave tuneable filters are among the most challenging components to carry out the adaptive frequency-band selection demanded by such systems. More still taking into account some critical factors to be considered in their development depending on the application; e.g. power-handling capability, non-linear/noise behaviour, switching speed or Q-value over covered tuning range. On the other hand, a lot of attention has lately been detected on the realisation of filtering devices with added RF functionality. Benefits of the multi-function operation are compactness and more efficient implementations through the co-synthesis of several RF processing actions. This Special Issue aims to provide the reader with covering on new techniques and technologies for the design of tuneable/reconfigurable and multi-function RF/microwave filters.

Some research topics to be addressed, among others, are as follows:

- Planar/Hybrid Tuneable Filters for Modern Applications (UWB, Multi-Band, etc)
- Reconfigurable High-Power Filters
- MMIC Tuneable Active Filters (GaAs, SiGe, etc)
- High-Q Wide-Tuning-Range Frequency-Controllable Filters
- Tuneable Filters in Emerging Technologies (SIW, Metamaterials, etc)
- Switchable Filters with Ferroelectric Materials
- Reconfigurable Differential-Mode/Balanced Filters
- Frequency-Agile Multiplexers
- Filtering Devices with Added RF Functionality (Antenna, Balun, etc)

All papers must be submitted through the journal's Manuscript Central system:
<http://mc.manuscriptcentral.com/iet-MAP>

Proposed publication schedule:

Deadline for submission of papers:

31st March 2012

Authors to receive a 1st decision by:

31st July 2012

Final notification of acceptance:

31st December 2012

On-line and print publication:

Q2 2013 Subject to IET Schedule

Special issue guest editor:

Dr. Wael Fathelbab

RS Microwave Company Inc.
Butler, NJ (USA)

E: wfathelbab@ieee.org

Prof. Xun Gong

Department of Electrical Engineering
and Computer Science
University of Central Florida, FL (USA)

E: gongxun99@ieee.org

Prof. Roberto Gómez-García

Department of Signal Theory and
Communications
University of Alcala, Alcala de Henares,
Madrid (SPAIN)

E: roberto.gomez.garcia@ieee.org

IET Publishing Dept. contact:

Paul Rowley

Editorial Assistant
IET Microwaves, Antennas
& Propagation

E: prowley@theiet.org

