

The 5th ARFTG NVNA Users' Forum at EuMC 2004

An informal discussion group devoted to sharing information and issues related to instrumentation utilized in vector large-signal network analysis of microwave circuits and systems that contain nonlinear elements.

Topics: Large-signal measurements utilizing nonlinear vector network analyzers (NVNAs), e.g. Microwave Transition Analyzers (MTAs) and Large-Signal Network Analyzers (LSNAs). NVNA measurements in conjunction with loadpull, sampling oscilloscopes, vector signal analyzers, and other test equipment used to perform large-signal measurements.

Date: Tuesday, Oct. 12

Time: 4-6:30 PM

Location: RAI (room N)

Agenda:

4:00p.m.–4:05p.m.: Welcome

4:05p.m.–4:25p.m.: Discussion topic 1: *“Classes of ‘non-linear’ behaviour”: One issue is the definition of ‘weakly nonlinear’; is there a definition beyond the link with Volterra series analysis?”*

4:25p.m.–4:45p.m.: Discussion topic 2: *“Are periodic, discrete-tone signals sufficient to emulate digital signals in device-, circuit- and system-level applications?”*

4:45p.m.–5:05p.m.: PhD research 1: Johan Paduart (VUB, Belgium), *“Blackbox identification of nonlinear MIMO systems”*

5:05p.m.–5:25p.m.: PhD research 2: Giovanni Loglio (Univ. Firenze, Italy), *“Extraction of the conversion matrix with a variable IF”*

5:25 p.m.–5:55 p.m.: Research updates (10 mins each)

- Jonathan Lees, A. Haczewski, Johannes Benedikt, and Paul J. Tasker (Univ. Cardiff, U.K.), *“An automated multiple-stimulus measurement system for characterizing multiple-device amplifiers”*
- Alessandro Cidronali (Univ. Firenze, Italy): *“Behavioural model of mixer in linear operation”*
- Marc Vanden Bossche (NMDG Engineering, Belgium), TBA

5:55p.m.–6:00 p.m.: Announcements (this ends the formal part)

- Update by NMDG Engineering & Maury

6:00p.m.–6:30 p.m.: Demos and informal interactions between participants

Feel free to drop in or let us know if you'd like to participate:

Dr. Dominique Schreurs, K.U.Leuven, <dominique.schreurs@esat.kuleuven.ac.be>

Dr. Wendy Van Moer, VUB <wendy.vanmoer@vub.ac.be>

Dr. Kate Remley, NIST <remley@boulder.nist.gov>

We hope to see you there!