IPNet Digest Volume 26, Number 05 June 17, 2019

Today's Editor: Patricia (Patti) K. Lamm, Michigan State University

Today's Topics:
    Upcoming Registration Deadline: Chemnitz Symposium on Tour in Frankfurt
    Registration Open: Advanced school: Thermal Measurements & Inverse Techniques
    Registration Open: Inverse Problems from Theory to Application, UK
    Call for Papers: Topics in Inverse Problems at PIERS in Xiamen, China
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Submissions for IPNet Digest:
                Mail to ipnet-digest@math.msu.edu

Information about IPNet:
                http://ipnet.math.msu.edu

From: Jan-F. Pietschmann <jfpietschmann@math.tu-chemnitz.de>
Subject: Reminder: Chemnitz Symposium on Tour in Frankfurt, 2019
Date: Tuesday, May 14, 2019

Dear Friends and Colleagues,
this is a reminder that the registration for this year's Chemnitz
Symposium on Inverse Problems, on tour in Frankfurt, and taking place from

September 30th to October 2nd, 2019

is already open. The deadline for registration is

 * June 30, 2019. *

All details can be found at
   https://urldefense.proofpoint.com/v2/url?u=https-3A__www.chemnitz-2Dam.de_ipsym2019_&
d=DwICaQ&c=nE__W8dFE-shTxStwXtp0A&r=BD2GkxRfNot2tppB7yJILODRvYg43-qopzlDlDaUj0I&m=W-
H9w3Dig-Dz7E5B5NCftJ6L7kYfTwvF6ixEbnxSW1c&s=THsnDA3UGYoAqCIFmnQlMYbim-ByiGhuxBT9tOWwlOI&
e=

We would be very happy to welcome you in Frankfurt this fall.

Best regards,
Bastian Harrach & Jan-F. Pietschmann

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From: Denis Maillet <Denis.Maillet@univ-lorraine.fr>

Subject: Advanced school: Thermal Measurements and Inverse Techniques
Date: Wednesday, May 22, 2019

Advanced school: Thermal Measurements and Inverse Techniques

METTI 7

Sep.18-Oct.4, 2019, Porquerolles island, France

This 7th advanced METTI school http://iusti.cnrs.fr/metti7 is aimed at theoretical and practical ways of tackling several important questions that are met in inverse problems in heat transfer such as:
-- A heat source exists at a location inaccessible to measurement: what can be learnt about it from distant measurements?
-- Can a single experiment allows the estimation of all the parameters of a thermal model?
-- How to design the ideal experiment to estimate the thermophysical properties of a material or of a physical system?
-- The thermal model used in an experiment is too time and memory consuming, how can it be reduced?

All these questions are related to inversion of thermal measurements: looking either for the causes responsible for observable consequences measured by a thermal signal or for the corresponding influencing parameters. Since a direct model links causes and consequences, the complete inverse approach requires to consider the triptych Measurements / Model / Inversion with equal effort for each of its parts.

These points will be discussed in the courses and tutorials sessions in the pleasant venue of Porquerolles island, Hyeres (Var) in the south of France.

Preregistration as well as registration are now open on the above website.

N.B.: the proceedings of the preceding schools are downlable at :

http://www.sft.asso.fr/document.php?pagendx=12299 (for Metti 5)
http://www.sft.asso.fr/metti-6.html (for Metti 6)

Submitted by: Denis Maillet
e-mail: denis.maillet@univ-lorraine.fr

From: Pamela Bye pam.bye@ima.org.uk
Subject: Inverse Problems from Theory to Application, UK, Sep 2019
Date: Friday, June 14, 2019

2nd IMA Conference On Inverse Problems From Theory To Application 4-6 September 2019, University College London, Gower Street, London, WC1E 6BT, UK

An inverse problem refers to a situation where the quantity of interest cannot be measured directly, but only through an action of a nontrivial operator of which it is a parameter. The corresponding operator, also called forward operator, stems from a physical application modelling. Prominent examples include: Radon and Fourier transforms for X-ray CT and MRI, respectively or partial differential equations e.g. EIT or DOT. The prevalent characteristics of inverse problems is their ill-posedness i.e. lack of uniqueness and/or stability of the solution. This situation is aggravated by the physical limitations of the measurement acquisition such as noise or incompleteness of the measurements. Inverse problems are ubiquitous in applications from bio-medical, science and engineering to security screening and industrial process monitoring. The challenges span from the analysis to efficient numerical solution. This conference will bring together mathematicians and statisticians, working on theoretical and numerical aspects of inverse problems, as well as engineers, physicists and other scientists, working on challenging inverse problem applications. We welcome industrial representatives, doctoral students, early career and established academics working in this field to attend.

Topic list: Imaging; Inverse problems in partial differential equations (Memorial Lecture for Slava Kurylev) Model and data driven methods for inverse problems; Optimization and statistical learning; Statistical inverse problems.

Call for Papers - Papers will be accepted for the conference based on a 100 word abstract for oral or poster presentation. We welcome abstracts to be submitted by 30 June via
https://urldefense.proofpoint.com/v2/url?u=https-3A__my.ima.org.uk&d=DwIBAQ&c=nE__W8dFE-shTxStwXtp0A&r=e3hMoihI-CgaL4e-VWcjOhsJb6Lg8FbptIXTFDPUMuc&m=YesQ0k_eolPW1ho7BOewRyWKBzcIJYjY1XS7All6tFQ&s=4kpaWQ7Ukd4-FE6yamWM1fVeoMTHHQjthYPiOMaYFA0&e= . Please indicate whether your title is intended for oral "presentation" or "poster" presentation. Please send your abstracts in plain text format (no equations).

Registration is now open via
https://urldefense.proofpoint.com/v2/url?u=https-3A__my.ima.org.uk_&d=DwIBAQ&c=nE__W8dFE-shTxStwXtp0A&r=e3hMoihI-CgaL4e-VWcjOhsJb6Lg8FbptIXTFDPUMuc&m=YesQ0k_eolPW1ho7BOewRyWKBzcIJYjY1XS7All6tFQ&s=9MgzpB7fSXGXPsJ80aGqfdltr9E1IxTrlAkuy20aZQ4&e=

For further information about this Conference, please visit: https://urldefense.proofpoint.com/v2/url?u=https-3A__ima.org.uk_11329_2nd-2Dima-2Dconference-2Don-2Dinverse-2Dproblems-2Dfrom-2Dtheory-2Dto-2D&d=DwIBAQ&c=nE__W8dFE-shTxStwXtp0A&r=e3hMoihI-CgaL4e-VWcjOhsJb6Lg8FbptIXTFDPUMuc&m=YesQ0k_eolPW1ho7BOewRyWKBzcIJYjY1XS7All6tFQ&s=KpQXt39CDw8_ckBRaQ7QP_Snif0wRbKwnf0mFi6Gt8g&e=application/

From: PIERS OFFICE <office@piers.org>
Subject: 1st Call for Papers: PIERS 2019 in Xiamen, CHINA (17 - 20 December) - Where microwave and lightwave communities meet
Date: Sunday, May 19, 2019

This is to cordially invite you to participate in the 42nd PhotonIcs and Electromagnetics Research Symposium (PIERS) to be held on 17-20 December 2019 (from Tuesday to Friday) in Xiamen, China.

http://www.piers.org/piers2019Xiamen/

PIERS (PhotonIcs and Electromagnetics Research Symposium, also known as Progress In Electromagnetics Research Symposium), provides an international forum for reporting progress and recent advances in the modern development of electromagnetics, photonics and exciting applications. Topics include electromagnetic theory, photonics, quantum optics, plasmonics, metamaterials, antennas, microwave technologies, acoustics, computational electromagnetics, electromagnetic compatibility, scattering, remote sensing, radars, radiometry, imaging, radiative transfer, material effects, inverse problems and all other modern developments in electromagnetics and photonics.
Since PIERS 2013 in Stockholm, PIERS has evolved from a mainly EM-based symposium to become the confluence of microwave and optics/photonic communities with over 1000 registered participants. PIERS full papers will be submitted for publication in IEEE Xplore. Author of an accepted abstract is invited (though not required) to submit a full paper of 3 - 10 pages.
To encourage young scientists and students to contribute to PIERS with presentations of timely and noteworthy research results, two special young scientist programs are organized at PIERS 2019 in Xiamen.

=== Best Student Paper Awards (BSPA) ============
Any full-time university student, who is the first author as well as the presenting author of a paper submitted for oral presentation at PIERS 2019 Rome, can apply for the Best Student Paper Award (BSPA). Three Prize Winners (First, Second, and Third Prizes) and two Honorable Mentions will be selected for each of the five topic areas SC1 to SC5 by the PIERS Young Scientist Program Committee. A full paper of 5 - 10 pages is required for the evaluation of the technical quality. The full paper should be submitted by the full paper submission deadline and registered by the pre-registration deadline.

=== Young Scientist Award (YSA) ============ To qualify for applications for YSA, one must have a PhD degree in science or engineering and be under 40 years of age by the conference date. The applicant must be listed as the first author as well as the presenting author of a paper submitted for oral presentation. A curriculum vitae with publication list must be submitted together with the abstract. A full paper of 5 - 10 pages should be submitted by the full paper submission deadline and registered by the pre-registration deadline. Awardees will be selected after peer-review of the applications by the PIERS Young Scientist Program Committee.
For details on the application procedures of BSPA & YSA, please visit http://www.piers.org/piers2019Rome/

PIERS 2019 Xiamen has the following five topic areas, each having a Subcommittee (SC) responsible for creating a fruitful technical program in that area:

SC1. Computational Electromagnetics, Electromagnetic Compatibility, Scattering and Electromagnetic Theory
SC2. Metamaterials, Plasmonics and Complex Media
SC3. Optics and Photonics
SC4. Antennas and Microwave Technologies
SC5. Remote Sensing, Inverse Problems, Imaging, Radar and Sensing

=== Focus Sessions ============
At PIERS 2019 Xiamen, Focus Sessions are also planned. Each Focus Session should be

focused on a specific hot topic that must be timely and reflect the future trends or the latest scientific advances in the area. The leadership of the conference will select the topics of Focus Sessions and the responsible organizers. The organizers of a Focus Session should be active and leading scientists of the area, and should make a best effort to ensure high quality of the session by inviting high-profile keynote speakers and excellent invited speakers. Some contributed oral papers are also encouraged but the quality of these papers must be strictly controlled.

List of confirmed Focus and Special Sessions to date can be found at
http://piers.org/piers2019Xiamen/session.php

Programs for the past PIERS are available online at http://piers.org/piers/
Should you be interested in organizing a Special Session at PIERS 2019 in Xiamen, please fill out the Survey Form at http://piers.org/piers/submit/survey.php .
You may also contact the chairs directly if you have any queries.

=== PIERS Exhibition & Sponsorship ============
If your institution or company wishes to apply for exhibition or sponsorship at PIERS 2019 Xiamen, please contact PIERS OFFICE via email: office@piers.org
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PIERS Suggested Topics:
1 Electromagnetic theory
2 Computational electromagnetics, hybrid methods
3 Spectra, time, and frequency domain techniques
4 Fast iteration, large scale and parallel computation
5 Transmission lines and waveguide discontinuities
6 Resonators, filters, interconnects, packaging, MMIC
7 Antenna theory and radiation
8 Microstrip and printed antennas, phase array antennas
9 RF and wireless communication, multipath
10 Power electronics, superconducting devices
11 Systems and components, electromagnetic compatibility
12 Nano scale electromagnetics, MEMS
13 Magnetic levitation, transportation and collision avoidance
14 Precision airport landing systems, GPS
15 Radar sounding of atmosphere, ionospheric propagation
16 Microwave remote sensing and polarimetry, SAR
17 Subsurface imaging and detection technology, GPR
18 Active and passive remote sensing systems
19 Electromagnetic signal processing and machine learning
20 Rough surface scattering and volume scattering
21 Remote sensing of the earth, ocean, and atmosphere
22 Scattering, diffraction, and inverse scattering
23 Microwave and millimeter wave circuits and devices, CAD
24 Wireless power transfer and harvesting
25 Medical electromagnetics, biological effects, bioimaging
26 Microwave photonics, THz technology
27 Biophotonics, optical sensors and environmental monitoring
28 Novel optical fibers and fiber-based devices
29 Advanced photonic materials and nanophotonics
30 Optoelectronic devices and integration

31 Optical and wireless networking for communication and sensing
32 Light emitting and lasing
33 Light harvesting, photovoltaics, optoelectronics in energy
34 Coherent optics, ultrafast optics
35 Quantum optics/electrodynamics, computing and information theory
36 Metamaterials and plasmonics
37 Biological media, composite and random media
38 Plasmas, nonlinear media, fractal, chiral media
39 Constitutive relations and bianisotropic media
40 Moving media, relativity, field quantization, and others

Kindly be aware that there is no financial support provided for our invitees. All participants are required to register for the conference.

We very much look forward to seeing you at PIERS 2019 in Xiamen, where microwave and lightwave communities will meet again!

With our best regards,
Prof. Qing Huo Liu, Duke University, General Chair
Prof. Weng Cho Chew, Purdue University, General Co-Chair Prof. Sailing He, Royal Institute of Technology, Zhejiang University, General Co-Chair Prof. Kazuya Kobayashi, Chuo University, Japan, General Co-Chair
and
Prof. Leung Tsang, University of Michigan, PIERS Chair
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http://emacademy.org/
http://piers.org/

From: "noreply@degruyter.com" <noreply@degruyter.com>
Subject: eTOC Alert 'Journal of Inverse and Ill-posed Problems'
Date: Thursday, June 13, 2019 at 4:27 PM

Journal of Inverse and Ill-posed Problems   June 2019   Volume 27, Issue 3
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https://www.degruyter.com/view/j/jiip.2019.27.issue-3/issue-files/jiip.2019.27.issue-3.xml
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