MULTI-AUTHOR BOOK
Advanced Mathematical and Computational Tools in Metrology and Testing XII
vol.12, Series "Advances in Mathematics for Applied Sciences", World Scientific, Singapore

IMEKO TC21 "Mathematical Tools for Measurements"
F. Pavese (Italy), A.B. Forbes (UK), N-F Zhang (USA), A.G. Chunovkina (Russia)

Call for Submissions

— Because of the coronavirus pandemic, we have been obliged to postpone the 12th edition of the conference, due to be held in Sarajevo, in September 2020 until sometime in 2022,

— In order to keep alive the tradition of TC21, having organised eleven editions of the conference in Torino (1993, 2003), Oxford (1995, 1999), Berlin (1996), Lisbon (2000, 2005), Paris (2008), Göteborg (2011), St Petersburg (2014) and Glasgow (2017), with associated AMCTM books published by World Scientific, Singapore http://www.imeko.org/index.php/tc21-homepage,

IMEKO TC21 has resolved to launch this Call for Submission of papers directly for publication in the AMCTM XII book covering the same themes as the conference series:

AMCTM XII Book scope
The submission of papers is encouraged relating to
- mathematical and computational tools to enable metrology address challenges in:
  - advanced manufacturing and industry
  - environment and climate e.g., sensor networks, smart cities, earth observation
  - energy and sustainability, e.g., smart grids, infrastructure monitoring
  - life sciences and health
- uncertainty quantification:
  - parameter uncertainty (input parameters whose values are uncertain)
  - structural uncertainty, model inadequacy, model bias, and model discrepancy
  - algorithmic uncertainty and numerical uncertainty, probabilistic numerics
  - interpolation or extrapolation uncertainty
  - uncertainties associated with data
  - uncertainties evaluated with non-probabilistic methods

- data science and metrology
  - data provenance and integrity, data curation
  - data analytics, data assimilation, machine learning, statistical learning
  - large scale computation, image analysis, Monte Carlo methods, Bayesian computation
  - data security and communication

Note: submissions relating to instrument design or experimental results alone are **not** within scope.

Special Topics

Proposers of submitted Special Sessions for the AMCTM 2020 Conference are encouraged to act as direct organisers of a corresponding group of submissions for those topics.

Organisation of the Call

The Editors of the Book will be the Officers of TC21 listed above: Pavese, Forbes, Zhang and Chunovkina. The Editorial Board will be formed by the Members of the AMCTM XII IPC who will accept the task.

Roadmap for the Production of the Book

1) *Abstracts* will have to be submitted by **end of 15 May 2020**

2) Abstracts will be reviewed by the Editors by 31 May 2020 with decisions: invitation to submit longer/review paper, invitation to submit normal paper, invitation to submit short paper.

3) The authors of the accepted submissions will have to submit the corresponding *full paper* by 12 September 2020.

4) **The full papers** will be reviewed by the **Editorial Board** (at least two reviews per paper**) by 31 October 2020.**

5) **Authors receive the reviews** of their manuscript(s) (rejection possible) **by 02 November 2020**

6) **Authors send revision(s):** reviews (and corrected proofs) must be finalised and **Authors** receive the **final acceptance** (rejection still possible) **by 07 December 2020**

7) **Each single author of accepted paper(s) will be asked for a small contribution to the printing cost (see below), having the right to receive, on their request, 1** *paper* **copy of the book**

8) In addition, the book will only be made available **by WS** as an *eBook*, **to cut the shipment costs.**

9) The book will be published **by World Scientific by 31 March 2021.**

Deadlines for the authors:

15 May 2020 — Authors send ABSTRACTS, maximum 2-A4-pages

15 Jun 2020 — Authors receive the acceptance of the submitted Abstracts

14 Sep 2020 — Authors must send FULL MANUSCRIPT for review

02 Nov 2020 — Authors receive the reviews of their manuscript(s) (rejection possible)

07 Dec 2020 — Authors send revision(s): reviews (and corrected proofs) must be finalised and Authors receive the final acceptance (rejection still possible).

Book format

Abstract: two A4 pages in PDF. There is no required format for the abstract. Authors can indicate their preference for: **short paper** (up to 5 book pages); **normal paper** (6 to up 10 pages); **review paper** (up to 15 pages).

Full Paper: Authors are required to use World Scientific templates in MS Word and LaTeX for the 9.00" x 6.00" book format available from www.worldscientific.com/style/proceedings_style.shtml . Coloured graphs or pictures will be published only in black and white.

AMCTM XII BOOK – CALL FOR SUBMISSIONS

Publication of papers

Multi-author book "Advanced Mathematical and Computational Tools in Metrology and Testing XII", which will be Scopus Indexed (http://www.wspc.com). Volumes IX, X and XI are indexed in the Web of Science.

Registration for accepted authors

Authors registration comes automatically with the final acceptance of the final proofs.

The authors are required, on registration to pay a contribution to the publishing expenses (and asking either for only the eBook or one paper book), **for each accepted paper**:

€ 60	for a short paper, up to 5 pages
€ 120	for a normal paper, up to 10 pages
€ 180	for a long/review paper, up to 15 pages.

Multiple authors can subdivide the expense as they wish.

TC21 Officers are exempt from the fee for the first paper.

For IEC Members having reviewed at least 2 manuscripts, the fee is € 60 for their first normal paper.

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