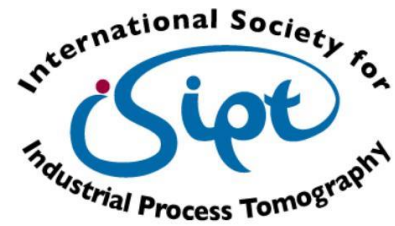

NEWSLETTER

SUMMER 2024



www.isipt.org

CONTENTS

Events and Actions Update

- Events for Continuing Recovery from Covid-19
- Recent – Review of World Congress WCIPT11, September 2023
- Next – Preview of World Congress WCIPT12, September 2025
- Future – Events, Dates and Information

Publications Update

- WCIPT11 Proceedings
- Special Edition Journals
- Recent Book Publication

Community Development

- Executive Group Development for the Future
- Research and Industry Case Study Examples
- Recognising ISIPT Membership and Contributions
- Membership of our Expert Panel
- Publicising ISIPT Global Opportunities

Events and Actions Update

Continuing Events Recovery from Covid-19 ..

Our major World Congress series continued from the postponed Global Virtual WCIPT10 event in September 2021, to WCIPT11 in 2023 with (dual-mode) In-Person attendance at the beautiful UNAM campus in Mexico City, and Virtual attendance, as reviewed below. Many researchers value the opportunity for face-to-face discussions of progress, new ideas and possible collaboration. Our next WCIPT12 event is planned for Tianjin, China, in September 2025. Tianjin is a vibrant city which also has 40min high speed train links to Beijing. It is also nearby to the new (2019) architecturally stunning Daxing International Airport, and Beijing's Capital Airport. The Congress will offer In-Person attendance for presenting and other delegates. Due to the time-shift, virtual attendance may be available (via coded recorded sessions) to members unable to attend. Please plan to attend and share your IPT research innovations and new applications and new IPT products at WCIPT-12. Please also see other important news below on future plans for the ISIPT below.

ISIPT Executive Group

Review of World Congress WCIPT11, September 2023

Our flagship World Congress 11 event was held in Mexico City, at the campus of the National Autonomous University of Mexico (Universidad Nacional Autónoma de México), in amazing Mexico City. We are most grateful for the kind collaboration of our Congress Chair, Professor Enrique Guzman. Our Congress venue was a purpose-designed Conference Centre in the centre of a beautiful parkland part of the very large campus, which includes several World Heritage site buildings.

The Congress venue offered perfect facilities a short distance (by shuttle bus or a pleasant walk) from the recommended hotel. We enjoyed our Congress Dinner in a garden restaurant in a dramatic modern Museum building. As a final day closing celebration, we enjoyed a fantastic and exciting performance of Mexican traditional dancing by a student group.

Although the number of delegates was relatively low, the standard of innovation was high, covering new techniques and applications. Resulting publications are noted below

Preview of World Congress WCIPT12, September 2025

In September 2025 we move around the Globe from the Americas to Asia for our 12th World Congress event in one of China's major cities, **Tianjin**. Our Congress Host is Professor Chao Tan, Tianjin University, who will be well known to many ISIPT members.



Tianjin China -- September 2025

Tianjin University (TJU) founded in 1895, is a prestigious institution renowned for its strong focus on engineering and technology but also with disciplines including science, management, humanities, and arts. As one of China's top universities, it plays a significant role in research and innovation, contributing to the country's scientific and technological advancements. TJU also excels in industrial applications, particularly in IPT making it a hub for excellence in this specialized area.

Tianjin ranks as the third largest municipality in China, after Shanghai and Beijing. It lies to the east of Hebei province 134km (83 mile) southeast of Beijing, and 56 km (35 mile) inland from the Bo Hai, a shallow inlet of the Yellow Sea making the city a leading port for North China. The name "Tianjin" translates to "Heavenly Ford." The city has a rich past, and even before European traders arrived in the 19th century, its maritime orientation and role as the commercial gateway to Beijing has fostered a diverse and innovative population. It has an interesting traditional area as well as a modern centre. Tianjin stations operate regular high-speed trains services to Beijing with 30..40min transit times. We will provide further details soon in a WCIPT12 website – please look out for announcements.

We are glad to announce generous **Travel Awards** from MDPI *Sensors Journal* to support 2025 attendance at WCIPT12 by ISIPT postdoctoral fellow/PhD student members who plan to attend and present a paper ..

Travel Award for PhD Student and Postdoctoral Fellow Delegates at WCIPT12

The application period is now open for the *Sensors* 2025 Travel Award. The applications will be assessed by an Evaluation Committee chaired by the Editor-in-Chief of *Sensors*.

This prize provides financial support for the winners to attend an international conference in the field of sensors to be held in 2025 in order to provide a presentation, present a poster, or both.

Candidate Requirements:

- Postdoctoral fellows or PhD students;
- Plans to attend an international conference in 2025 (oral presentation or poster).

Required Application Documents:

- Details of World Congress and advance draft of abstract to be submitted;
- Curriculum vitae and list of publications;
- Justification letter describing the focus of the research (max. 800 words);
- Letter of recommendation from supervisor, research director, or department head, which confirms the applicant's status as a postdoctoral fellow/PhD student.

The winners (five awardees) will each be awarded **CHF 600** and a certificate. [CHF 600 is approximately: Ch Yuan 5200, Euro 650, GBP 550, USD 730]

Please apply before **31 October 2024**. The winners will be announced on 31 December 2024.

Kind regards,

Sensors Editorial Office

To apply please request an application **link** from sensors@mdpi.org noting the invitation from MDPI Sensors to **ISIPT World Congress in IPT invited Special Issue collaborators**.

Future Events

World Congress Events -- Following our adopted method to support global development in IPT our next World Congress after Tianjin is scheduled to take place in 2027 in the Europe/Africa segment of the globe. Requirements are relatively simple: a location of general tourist interest, an appropriate congress venue, plus a nearby international airport with direct flights for a large number of ISIPT members.

If your home base is within this sector and you wish to consider mounting a World Congress event, please send a brief Expression of Interest to info@isipt.org giving outline details of proposed organisation, location and typical example venue. We will then request proposers to make a presentation at WCIPT12.

Focussed Symposium Events - The ISIPT supports an unlimited number of events that contrast (and importantly do not compete) with our World Congress series in their focus on a narrow theme using a variety of modes: e.g. symposium, workshop, round-table, sand-pit. These can be simple to organise typically with less than about 30 attendees. Support on organising Events in general is available from the ISIPT website at www.isipt.org/events.

Use the Propose an Event link, where an overview is provided, plus a downloadable Guide-note that provides a brief template of questions for direct use in a proposal. A simple planning spreadsheet can

also then be supplied to highlight the main costs and predict 'break-even' numbers needed. Please forward questions or proposals to: info@isipt.org.

Publications Update

WCIPT-11 Congress Proceedings and Special Edition Papers

Our 2023 11th *World Congress on Industrial Process Tomography Proceedings*, ISSN 2309-3870, are now published as ISBN: 978-0-85316-368-8. Open Access to Abstracts is available to all at: <https://isipt.org/world-congress/11.html>. ISIPT Members when signed-in also have Open Access to all Congress papers.

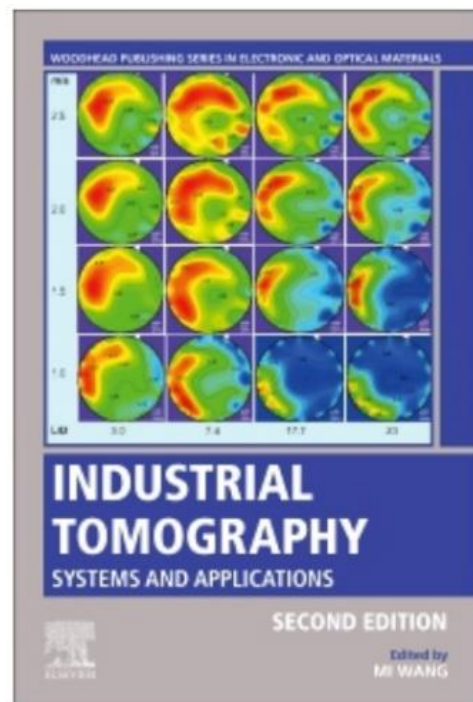
IoP *Measurement Science and Technology* Journal ISSN: 0957-0233 (print), 1361-6501 (web), Impact factor: 2.7, covers the theory, practice and application of measurement, instrumentation and sensing across science and engineering. A Special Section on *Tomographic Process Measurement* is available at: <https://iopscience.iop.org/collections/mst-231013-388> compiled from full papers developed from WCIPT11. This Special Section is now closed to submissions. IoP have kindly agreed to invite full papers for publication in a Special Section from our forthcoming 2025 WCIPT12 event.

MDPI *Sensors Journal* ISSN: 1424-8220 (online), Impact factor: 3.4 covers the science and technology of a wide range of sensors. A Special Issue on *Tomographic Sensors for Industrial Processes* is available at: [Sensors | Special Issue : Tomographic and Multi-Dimensional Sensors \(mdpi.com\)](https://www.mdpi.com/sensors/special_issue/Tomographic_and_Multi-Dimensional_Sensors) to be compiled from full papers from WCIPT11 congress versions. This Special Issue is open for submissions until 20 March 2025 for WCIPT11 delegates to submit extended full versions of their papers.

Recent Book Publication

The Compendium of '*all you need to know*' about ***Industrial Tomography Systems and Applications (Second Edition)*** was published recently. It provides the definitive reference for personal, company, academic institution and research group libraries.

This latest edition has several new chapters, many updates and authored by globally expert contributors, again edited by Professor Mi Wang (University of Leeds, UK). The updated book thoroughly explores the important techniques of industrial tomography, including emergent novel developments and a wide range of applications. For example, the study of complex processes using multi-dimensional methods, and machine learning estimation. It provides application insight into filtering, mixing, drying processes, and chemical reactions inside vessels and pipelines. All previous chapters have been updated and many new chapters catalogue new developments.



Community Development

Executive Group Development for the Future

Our current Executive Group proposed their development plan in 2015 that included an active membership data compliant with Data Protection Regulations (in simple terms that member agree to their data being held (and used solely to provide ISIPT relevant information, such as this Newsletter). The plans focussed on encouraging dissemination and collaboration for development of the wider science and technology of Industrial Process Tomography. The Group anticipated a period of 5 years, spanning two or three major and several minor events, through to ~2020. Of course, all our plans were 'put on hold' at the end of 2019. Our 2020 visit to WCIPT Tianjin was postponed, etc.

As outlined above the World is slowly recovering from the Covid-19 pandemic. Major global initiatives to address Climate Change, sustainability, needs for tighter process control, are urgently needed. The value and need for IPT and Smart processes continues to grow.

Do you have a vision for applying IPT to these challenges?

Do you see partners who you can join in this mission?

Do you foresee global research task forces and positive parallel collaborative projects?

Instead of a formal mechanism your current Executive Group proposes to collect ideas and people - to build a and team consensus for action, to be completed, set-up and rolling for WCIPT12.

If you would like to form or join a new Team to continue the work of ISIPT please get in touch – please send brief details and outline ideas to info@isipt.org.

Important - ISIPT holds a HSBC UK bank balance that holds a small balance of funds from donations requested for event attendance and is used solely for directly relevant purposes: event venues, IT facilities for Website, Email and Web support, and actions, such as this Newsletter.

No member of the Executive Group has ever received any payment for any purpose, including travel and similar expenses, from ISIPT funds. The ISIPT is a Not-for-Profit organisation. It has no employees. It occasionally provides small funds to students for temporary assistance, e.g. in 2023 for a language student (in Spanish) to liaise with service providers in Mexico. Importantly, due to the onerous legal requirements and costs it is NOT a Registered Charity in the UK.

Recognising ISIPT Membership

ISIPT is a global Learned Society whose members join to share their knowledge in our community to advance the technology and benefits of IPT. Other Learned Societies, such as IEEE and IET encourage members to indicate and celebrate their membership when abbreviating their academic and professional competence qualifications, e.g. **MIEEE, MIET** or **FIEEE**.

To recognise and celebrate ISIPT membership we would like to encourage all members to indicate their **ISIPT membership** using the simple *post-nominal* abbreviation: **MISIPT**.

E.g. Dr A. Researcher, BSc PhD MISIPT

We are most grateful to our Consultative Scientific Panel for their critical support. To recognise their esteem in our community we encourage all our expert panellists to indicate their **ISIPT fellowship** using the simple *post-nominal* abbreviation: **FISIPT**.

E.g. Dr A. N. Expert, BSc PhD FISIPT

Members have suggested printed certificates of **Membership**, and **Fellowship**. We invite members to offer suggest a **Certificate Design**, incorporating appropriate graphics. Please send ideas or sketches to info@isipt.org. We will form a small group to select a design and investigate mechanisms for distribution (ideally via the web) and publish winning ideas and their proposers.

Membership of Our Expert Scientific Panel

Our panel has over 30 experts who are vital to maintain our quality standards in technical events and provide background guidance. We would like to limit workload requests for each member and hence we need an overlap of expertise. If you have in-depth expertise in a specific aspect(s) of IPT please consider joining our panel - send a brief overview of your expertise and experience to info@isipt.org.

It would be very useful if you could identify your General Interest in terms of specific A, B or C topics shown in recent World Congress paper sections – please list each relevant sub-topic with added brief notes of your expertise, with examples and a publication in each case.

Website Enhancement – Research and Industry Examples

We hope that Members continue to enjoy our **Active Homepage** website whose Homepage cycles automatically through a small set of illustrative content. This begins with overviews showing IPT insight provided in two contrasting industries: oil/gas production monitoring; and manufacturing using mixing. The timed sequence then shows examples of excellent research papers, industrial application case studies, publications and event details. Navigation through the sequence can also be controlled with Forward and Back buttons.

Excellent Research Examples: Our website enhancement features a **Research** menu section, currently offering 6 complete past papers selected for their quality by Sessions Chairs. They provide a wide illustration of novel IPT methods and/or new applications and are available in PDF format. We hope to feature other selected Excellent Research papers from any past WC-IPT proceedings. For Copyright reasons we cannot feature any other publications. If you wish to nominate any previous WC-IPT paper please send its WC-IPT reference data, with brief comments on: novelty in method and/or application and quality of presentation, including clarity of results and figures. Please send your recommendation by email to: info@isipt.org. We plan to review nominations in groups using our Expert Panel. Some nominations may not be accepted, hence please maintain confidentiality until the review process has been completed.

Industry Application Case Study Examples - Our Society is concerned with Industrial Process Tomography. We are interested in research, but this must commonly lead to exploitation and application. The ISIPT website currently includes a small number of case studies of Industry

Applications, some are featured as overviews on the Homepage. We are interested in showcasing more Industry Case Studies in 'full-time' use on any industrial processes in any industry sector. If you have an example, please compile descriptive base data in the form shown in the current public examples and forward by email to: info@isipt.org. We can format your materials and refer the completed case study back to you for approval, and then mount on the ISIPT website.

Publicising ISIPT Global Opportunities

We currently have more than 700 members from 55 states. The ISIPT can only effectively deliver its aims if it extends coverage to everyone who has an interest, as a researcher, developer, a user or simply for people interested in how science and technology is applied.

Please pass on information about ISIPT to your colleagues and contacts to grow our community. We are all affected by 'succession planning'; please help the ISIPT to continuously renew our community by encouraging junior colleagues to become members - so that they can benefit and 'stand on our shoulders'.

It is completely free to join and be a member of ISIPT.

Acknowledgement: Thanks to Philip Ronson of Aggelia for his work on our website and electronic communications.

ISIPT Executive Team – September 2024

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