



Members' Newsletter – June 2023

TE2023 Conference Update (Jul 11 - 14, 2023)

<http://te2023.ait.ac.th/>

This second quarter has been another active and productive period for TE2023. In the end, we received 165 submitted abstracts and invited the authors of 140 abstracts to submit their full papers. Our reviewers engaged in reviewing 117 submitted papers, and upon their recommendations, we accepted 102 papers and invited their authors for oral presentations. We also invited the authors of the other 15 papers for a poster session. We expect 96 oral and around 8 poster presentations in July.

Five distinguished keynote speakers listed below kindly accept our invitations to share their valuable experiences and insights with our participants in different aspects, from economy to industry to technology to design and education. The title of their talks and their bio-sketches are available at https://te2023.ait.ac.th/?page_id=1323.

1. Hon. Abhisit Vejjajiva, Former Thai Prime Minister
2. Dr. Sampan Silapanad, Vice President, Hard Disk Drive Operations – Thailand, Western Digital Corporation
3. Prof. George Q. Huang, Chair Professor of Smart Manufacturing, Department of Industrial and Systems Engineering, The Hong Kong Polytechnic University, Hong Kong, P. R. China
4. Prof. Claudia Eckert, Professor of Design, School of Engineering and Innovation, Faculty of Science, Technology, Engineering & Mathematics, The Open University, United Kingdom
5. Prof. Cynthia J. Atman, Professor, Human Centered Design & Engineering, Director, Center for Engineering Learning & Teaching, Mitchell T. and Lella Blanche Bowie Endowed Chair, College of Engineering, University of Washington, USA

Besides the SI in Advanced Engineering Informatics, another SI for TE2023 is set in the International Journal of Agile Systems and Management.

The general program has already been finalized and updated on the conference website. For details, please visit http://te2023.ait.ac.th/?page_id=746.

TE2023 is around the corner. As of now, one week before the early registration deadline, more than ninety participants have registered for eighty papers shining a light for three digits participants.

The TE2023 Organizing Committee is looking forward to welcoming all participants. Social activities and entertainment await for the participants to enjoy. See you in the Land of Smiles.

ISTE Membership

Since the last newsletter we have grown from 197 to 204 members. Please continue to promote the Society through your networks and if you see any opportunities for us to reach new audiences, please let us know.

We would like to take this opportunity to welcome new members, Dr Irina Lazar and Ellie Smallwood and Dr Arumuganaina.

Dr Irina Lazar is Associate Professor in Engineering and Public Policy, Director of Undergraduate Education, and Programme Lead of the BSc Science and Engineering for Social Change at the Department of Science, Technology, Engineering and Public Policy (STeAPP), UCL (University College London).

Before joining UCL, she was Senior Lecturer in Dynamics and Control at the University of Bristol in the UK, where she obtained her PhD in 2016 and worked at the interface between Civil and Mechanical Engineering. Through her engineering work, Irina became acutely aware of the gap between technological advancement and its implementation on a large scale in society, and of the sometimes-narrow solutions we propose for addressing complex issues. This realisation led to her decision to study public policy at the LSE (London School of Economics and Political Science) in 2021.

Irina is involved in a multitude of research projects on designing an engineering curriculum that is fit for purpose in the 21st century. She works on embedding sustainability in engineering programmes, including the development of an online platform for sharing resources, providing support, and creating networking opportunities. She leads a project on student placements in higher education bringing together engineering and education experts, and professionals, looking at the development of employability skills and the value of developing partnerships that help students, universities, and their local communities thrive. Another notable example is the work she leads on inclusive engineering education looking at the impact of exclusionary experiences on access and attainment in higher education.

Ellie Smallwood. *Thank you for welcoming me into transdisciplinary engineering, I look forward to learning from this community! My personal interests revolve around how energy systems – from micro to macro – can be better designed, implemented, and used to reduce humanity's impact on the climate. This has been shaped by an Environmental Sciences BSc, looking at sustainability and physical climate science, and an Energy Systems and Data Analytics MSc, considering built environment, transport, geo-political, and social energy challenges.*

I am currently pursuing a PhD at the University of Bath investigating autonomous anomaly detection, with an automotive testbed manufacturer being the primary case study. This aims to improve data quality and save time, money, and energy by reducing the number of redundant tests due to both equipment or test-unit failure or malfunction and, incorrect set-up and calibration. Since I believe that anomaly detection has applicability to other energy intensive or digitalising sectors, I will be exploring alternative use cases whilst also appreciating the balance between automation and the impact of human factors.

Dr.K.Arumuganaina *I wish to inform you that, I have completed my Ph.D in the Field of Refrigeration and the domain of Mechanical Engineering. I have completed my Diploma in Automobile Engineering in the year of 1999, B.E in Mechanical Engineering from Anna University of Technology Tirunelveli in the year of 2011 and I have completed my M.E Thermal*

Engineering from Anna University Chennai in the year of 2013. I am the University First Rank Holder [GOLD MEDALIST] in my P.G Study. I have 15 years of Teaching Experience in the Engineering College and Polytechnic College and 8 years in Automobile Industry. Now I am working as Assistant Professor in the Department of Mechanical Engineering, JP College of Engineering. I have Published 8 papers in International Journals, attended 10 National and International Conferences. I have published a Pattern in the Intellectual Property India “ANALYSIS OF MECHANICAL BEHAVIOR OF BRAKING FORCE IN ELECTRICVEHICLES” in the year of 2023.

Interesting Publications

Great industry / academia collaboration publication by our members Mark Weaver, Alvaro Romera, Munir Shah and Nel Wognum which looks at the lessons learnt from managing and governing integrated research programmes <https://www.mdpi.com/2071-1050/15/11/8833>

[Codes of Conduct for Collaboration as Social Rule Systems for Transdisciplinary Processes | SpringerLink](#)

Other related papers:

[Industry 4.0 digital technologies enhancing sustainability: Applications and barriers from the agricultural industry in an emerging economy - ScienceDirect](#)

[Complexity Literacy for a Sustainable Digital Transition: Cases and Arguments From Transdisciplinary Education Programs: Education Book Chapter | IGI Global \(igi-global.com\)](#)

[\[PDF\] Teaching transdisciplinary competencies for sustainability transformation by co-producing social learning videos](#)

[Transdisciplinary education and ATLAS activities: past, present, and future perspectives](#)

[\[HTML\] Head in the clouds, feet on the ground: how transdisciplinary learning can foster transformative change—insights from a summer school](#)

[\[HTML\] An Emergent Transdisciplinary Methodology for Effective Collaboration in Ecological Economics](#)

[\[PDF\] Social labs as good practice for transdisciplinary engagement processes in research and innovation](#)

[The transdisciplinary potential of citizen science](#)

[Transdisciplinary teams as discourse coalitions: building transformative narratives for transdisciplinary inquiry](#)

Research Opportunities – no updates

Other News

ISTE LinkedIn Group: Members have increased from 92 (20 March 2023), to 98 members (20 June 2023). To access the group, click on this link [ISTE LinkedIn Group](#).

We are keen to hear from our members. If you have anything you would like to include in the next edition of the ISTE newsletter, please email sl2091@bath.ac.uk