



The 50th International Conference on Computers and Industrial Engineering

CIE50 | October 30–November 2, 2023

Special Session on New Advances in Performance and Efficiency Analysis: A Sustainable Development Framework

Organizers

	Name	Affiliation	Email
1	Mehdi Toloo	Department of Business Transformation, Surrey Business School, University of Surrey, Guildford, GU2 7XH, UK	m.toloo@surrey.ac.uk
2	Babek Erdebili	Industrial Engineering Department, Ankara Yıldırım Beyazıt University (AYBU), Turkey	berdebilli@ybu.edu.tr

Session Information

The session to help businesses, SMEs and countries achieve their sustainable goals. Participants including practitioners, and young and senior researchers are interested in productivity management, frontier analysis and data envelopment analysis, both deterministic and stochastic approaches. The goal of this session is to compile state-of-the-art research, modelling, theory, empirical studies, application and case studies in this research area.

DEA has experienced exponential growth in both theoretical development and applications. The literature includes thousands of theoretical studies extending the methodology to address varying angles of real-world problems. Applications are also well established and studied such as finance, health, education and other public and private sector services.

This session will be of interest to engineers who seek to have a better appreciation and knowledge of cutting-edge research in this field of study.

Novelty and motivation (one to two paragraphs), including why this topic is of interest to the CIE50 attendees and why it is different from a regular conference session.

Organizer 1 – (Mehdi Toloo)

Short Biography

Mehdi Toloo is a Full Professor of Systems Engineering and Informatics at the Technical University of Ostrava, Ostrava, Czechia. He also holds a senior lecturer position at the Department of Business Transformation, Surrey Business School, University of Surrey, Guildford, UK. Mehdi has lots of experience in leading and collaborating on some successful national research projects. He has contributed to numerous international conferences as a chair, keynote speaker, presenter, track/session chair, workshop organizer, and scientific committee member. He also acts as an area editor for Computers & Industrial Engineering (ELSEVIER), Journal of Business Logistics (WILEY), Supply Chain Analytics (ELSEVIER), Decision Analytics (ELSEVIER), Healthcare Analytics (ELSEVIER) among others. Mehdi has written fifteen books and he regularly publishes in top-tier international journals such as OMEGA and EJOR in ELSEVIER.



Organizer 2 – (Babek Erdebili)

Short Biography

Babek Erdebili (B.D. Rouyendegh) is an Associate Professor at the Industrial Engineering Department, Ankara Yıldırım Beyazıt University (AYBU), Turkey. His work has been published in high-impact journals such as the International Journal of Production Research, Journal of Energy, Annals of Operations Research among others. He is the Editor-in-Chief of the Journal of Turkish Operations Management and an Academic Editor at Applied Computational Intelligence and Soft Computing. He has contributed to numerous international conferences as a chair, presenter, session chair, and scientific committee member. His main teaching and research interests include performance measurement, fuzzy sets, linear programming, and multi-criteria decision making. He was awarded a grant by the Scientific and Technological Research Council of Turkey (TÜBİTAK) and served as a Research Fellow at the University of Toronto, Canada (2011-2012) and postdoc at Auburn University, USA (2015-2016), respectively. He is a member of INFORMS and MCDM.

