Call for Papers

7ᵗʰ International Workshop (ITER 2019)

Information **T**echnology in **E**conomic **R**esearch

Co-located with the 15ᵗʰ International Conference
on ICT in **E**ducation, **R**esearch, and **I**ndustrial Applications:
Integration, Harmonization, and Knowledge Transfer (ICTERI 2019)

June 12, 2019, Kherson – Ukraine
http://icteri.org/icteri-2019/

Venue: Kherson State University

ITER 2019 at a Glance

ITER is an annual peer-reviewed international workshop focusing on research advances, business/academic applications of information and communication technologies related to solving practical economic problems and also pushing forward economic research. ITER puts its emphasis on real world applications of ICT solutions in economics. Therefore, all contributors are strongly encouraged to demonstrate how and for what purpose the proposed solutions are to be used. Examples could be economic case studies involving new tools and/or methodological approaches, experimental studies with usable economic applications, or surveys revealing new IT applications and trends in economic research and practice.

ITER is designed to offer a meeting point for intensive scientific exchange among researchers and practitioners interested in a focused look into information technology in economic research and industrial deployment.

The program of ITER 2019 will include a panel discussion, contributed presentations of the accomplished work and work in progress. The workshop will be full day.

Important Dates

(23:59 Hawaii time)
Monday, 25.03.2019 – paper submission deadline
Monday, 22.04.2019 - acceptance notification
Monday, 06.05.2019 - submission of camera ready papers
Monday, 06.05.2019 - registration deadline
Monday, 12.06.2019 – Workshop Day

No Fees

WS ITER, does not charge any conference fee. Participation is FREE, Expenses are covered by sponsors.

The Scope of ITER

The use of computer programs in all sorts of economic simulations has become increasingly popular in the last few years, producing a wide variety of interesting applications, such as investment portfolio optimization, financial time series, stock ranking, and risk-return analysis, agent-based policy analysis.

Simulation and experimental economics includes evolving artificial societies for simulating evolutionary economies, economic competitions, etc. to select the best models for strategy optimization and economic policy development.

The expansion of IT has a very big influence on business process modeling, e-commerce, economic education, and economic research through the use of modeling, processing and presentation of economic data. The implementation of IT for economic applications and research is a bridge between researchers and practitioners. The workshop focuses on the interplay of the two important themes: (1) the application of IT in business, economics, finance and research; (2) the economics of research and development in IT industries.

The goals of the workshop are: (1) to help economists use IT in economic research and practice, in particular for simulation and forecasting; (2) to improve and refine the use of IT in the context of mixed economies. Workshop addressed to staff, researchers, PhD students, master's students, industry practitioners.

ITER 2019 invites papers on, but not strictly limited to, the following topics:

Fuzzy Logic and Neural Networks in Economics: development of the theory and methodology of neural networks and fuzzy logic in economics, practical solutions for specific economic construction applications within economic and mathematical models, their program implementation, and experimental studies on their effectiveness, contributions on how humans represent and use incomplete and uncertain data and knowledge in decision making and preparing of economic strategies, neuromarketing ICT technique.

Computational Economics and Economic Modeling: simulation and forecasting of micro- and macroeconomic dynamics of economic growth, financial crises, inequality and welfare using software modules, organization and development of controlling in the public and private sectors, discrete and continuous economic systems development, mathematical models in profit/loss analysis and assessment for individuals, companies and governments, portfolio management and performance evaluation through robo-advisors services in finance, risk assessment of robo-advisors, algorithmic trading with financial instruments in stock exchanges, mechanism design theory, modeling firm, industry and market dynamics using IT tools, business process simulations and business models for firms, suppliers, customers and governments.

Evolutionary and Simulation Economics: evolutionary dynamics and agent-based modeling in economics, simulation methods in economics, replicator dynamics and simulation analysis for economic systems, innovations in evolutionary model of economics, time-series simulation through econometric packages, artificial agent-based analysis, evolutionary game theory and its applications in economics, business and finance, networking of consumers, stability and bifurcation analysis of economic systems, online auctions and technologies, SME digital innovation and transformation.

System Analysis and Data Science: their applications in decision making problems under uncertainty and incompleteness to support decision making in economics, finance and business, data analysis, data mining, machine learning and datasets for intelli-

gent/autonomous economic systems, benchmarking in business and finance, robo-advisors, big data in microeconomics, foundations and trends in machine learning for economic forecasting, statistical analysis of economic behavior and datasets, clustering and classification of consumer types and segments of market in pricing and promotion of goods and services using IT tools.

Intelligent Manufacturing and Information Systems: collaborative manufacturing and management in the context of Industry 4.0, information management systems for manufacturing enterprises, flexible/digital manufacturing systems, automation and robotics, smart manufacturing and Industry 4.0 strategy, intelligent decision support systems and transportation systems, development of IT systems in which models take a central role for analysis of these systems, information system auditing, GIS based technologies for economic purposes, ERP and CRM systems, digital business platforms.

ICT Education for Economists: curriculum design and innovations, quality assurance and quality standards, e-CF and EQF standards, competencies and learning outcomes at national and international level for ICT education in economic science; promotion of effective transfer of research results to the market, web applications for business goals and labor markets; gamification of business cases, FinTech industry in education, cloud technologies for informatics learning in business, economics and finance, university-enterprise collaboration opportunities: promotion of knowledge transfer from university to industry in economic and business interactions.

Submission Types and Requirements

ITER solicits (i) regular (full) research papers, (ii) short research papers, (iii) discussion, survey, or problem analysis papers. Evaluation criteria are the same to those of the main ICTERI 2018 Conference. Please refer to http://www.icteri.org/icteri-2019-submission-types-and-evaluation-criteria for more details.

Submission Instructions and Publication

The languages of ITER are English, Ukrainian and Russian. All submissions shall be annotated by the key words/phrases freely chosen by the authors. At least three and at most five key phrases have to be provided.

All submissions must comply with the Springer CCIS format guidelines. Formatting instructions and template as well as submission guidelines are provided for your convenience at the ICTERI 2018 web site: http://icteri.org/icteri-2019/.

Submissions must be made in **.pdf** by using **EasyChair** System: https://easychair.org/conferences/?conf=icteri2019.

Please submit your paper to the **ITER 2018 Workshop** Track.

1. Only papers written in English can be recommended, if accepted by the ITER PC, for the publication in the ICTERI 2019 proceedings which will be published electronically at CEUR-WS (indexed by Scopus)

2. The best Workshop papers in Ukrainian and Russian may be invited to be extended and published in the special issues of Ukrainian journals. ITER traditionally cooperates with the Ukrainian journal: «Information Technologies in Economic Research» (http://iter.kspu.edu/en)

The best Workshop papers written in English and selected by the ICTERI 2019 Steering Committee, among those presented at the conference, may be invited to be revised and extended for the ICTERI post-proceedings volume. The post-proceedings of ICTERI are traditionally published by Springer Communications in Computer and Information Science (CCIS) series.

Evaluation and Presentation

Every submission will be evaluated by at least three members of the ITER Program Committee. Based on evaluation results, the best papers will be accepted for their presentation at the workshop and, if written in English, publication in the proceedings.

It is strongly required that at least one author of an accepted paper:

- Attends the workshop in person
- Presents their paper at the workshop at the time specified in the program, in person.

Workshop organizers will withdraw the paper from the publication in CEUR-WS proceedings if the author(s) do not attend the workshop.

Program Committee of WS ITER 2019

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How to Get to Kherson

Kherson is the regional capital city in the South of Ukraine. It is a nice and calm city with many nations living in one comfortable place. It is famous for its traditions of southern-Ukrainian hospitality. Kherson region is also known for its effort in protecting and maintaining natural environment. The city offer abundant attractions for traditional and ecological tourism. Kherson is well connected to international air hubs through its local airport. (http://airport.kherson.ua/?lang=en). More details are available at the Conference Venue page at the ICTERI 2019 web site: http://icteri.org/icteri-2019/conference-venue/.