International Workshop RMSEBT 2021: Rigorous Methods in Software Engineering and Blockchain Technologies

Kherson State University, Kherson, Ukraine, September 28 - October 02, 2021.

The workshop RMSEBT is dedicated to rigorous methods which are used in different fields of software engineering: rigorous methods for specification, verification and optimization of software, rigorous methods for different kinds of software analysis (modeling, business rule extraction etc.), software testing which based on rigorous methods (model based testing, white box testing etc.), re-engineering problems (model extraction from source code, language migration etc.), DLT architecture development, modeling and verification of token economies, detected of smart contracts vulnerability.

The workshop aims to bring together the researchers from different research groups, both academics and practitioners, working on the aspects of rigorous techniques for specification and analysis of distributed software and cyber-physical systems, computer simulation as a tool for the study of large-scale distributed system and networking.

The theme of RMSEBT 2021 relates to the ICTERI 2021 Track 2: Information Systems: Technology and Applications: Model Driven Architectures / Software Development, Business Process Management, Knowledge Extraction, Engineering and Management.

No Fees

WS RMSEBT does not charge any conference fee. **Participation is free**.

Topics

- rigorous and formal techniques for specification and analysis of software;
- mathematical modeling and computer simulation of systems;
- mathematical models of information systems and processes;
- software re-engineering;
- distributed/algorithms consensus;
- distributed database technologies for blockchain;
- decentralized app development;
- smart contracts and verification. Security, attacks;
- token economies and governance (modeling, analysis and verification).

Important dates

- Paper submission deadline – Monday, 17.05.2021
- Acceptance notification – Monday, 28.06.2021
- Submission of camera-ready papers – Monday, 28.08.2021
- Presentation submission deadline – Saturday, 28.08.2021
- Registration deadline – Saturday, 28.08.2021

Workshop language: English

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Submission Guidelines

The submitted papers for the RMSEBT 2021 workshop should be one of the following types (Similar types as in ICTERI 2021 main stream):

1) *Full Research or Survey Papers.*

The research papers in this category are the reports on the accomplished research work; they present a novel method, technique or analysis with appropriate empirical or other type of evaluation as a proof of validity. Survey papers may include a reasonable review placing the addressed problem onto the state-of-the-art landscape and analyzing how far current solutions fall short; clear definitions and argumentation are also expected in terms of qualitative or quantitative representation of the main characteristics of the problem.

– Evaluation criteria: originality, technical soundness, the soundness of the problem analysis, the soundness of the real use.
– Page limit: 12-16 LNCS pages.

2) *Short (Work in Progress) Research Papers.*

The papers in this category are the short reports of the preliminary results or describing the work in progress.

– Evaluation criteria: originality, technical correctness, and potential value of the planned results in a short to mid-term perspective
– Page limit: 10-12 LNCS pages.

3) *Industry Experience Reports or Case Studies.*

The papers in this category report on industrial deployments of ICT.

– Evaluation criteria: significance and practical relevance, technical soundness, and accompanying evaluation or industrial validation
– Page limit: **12-16 LNCS pages.**

The authors interested in presenting and publishing their research results at RMSEBT 2021 are invited to submit their papers in response to the respective published Call. RMSEBT submissions are accepted via the **EasyChair** conference management system:

https://easychair.org/conferences/?conf=icteri2021

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Formatting Instructions

WS RMSEBT uses **Springer LNCS layout** for the proceedings. Therefore, for preparing your submission please **STRICTLY FOLLOW** the Guidelines for Springer Computer Science Conference authors at http://www.springer.com/de/it-informatik/lncs/conference-proceedings-guidelines

Your submission may be prepared

- Either using **LaTeX**
- Or using **MS Word**

Springer **Guidelines** inform you about how to do this in both cases and also provide the necessary **templates** for **Word** and **LaTeX**.

Publication

Accepted papers for the workshop will be published as a part of the ICTERI 2021 Conference Proceedings volume (RMSEBT volume). All accepted papers should be presented at the workshop by one of the authors and should be registered as participant of the ICTERI 2021. Otherwise such papers will be eliminated from the Proceedings volume.

The best accepted and presented at the conference papers of RMSEBT 2021 may be selected by the ICTERI 2021 steering committee, based on their presentation at the workshop, and invited to be extended and revised for the post-proceedings of ICTERI 2021.

Alternatively, the best RMSEBT 2021 papers may be invited to be extended and published in the special issues of Ukrainian or International Journals:

- The «Bulletin of Kharkiv National University VN Karazin» – series, Mathematical modeling. Information Technology, Automatic Control Systems (physics and mathematics, and engineering sciences)
- «Problems of Programming»
- «Information Technology in Education» (pedagogical sciences)

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