



Modeling Distributed Information Systems

Guest Editor:

Dr. Wiktor B. Daszczuk

The Institute of Computer
Science, Faculty of Electronics
and Information Technology,
Warsaw University of Technology,
Poland

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Message from the Guest Editor

Formalisms and mechanisms for dealing with distributed systems mostly originate from the era of centralized concurrent systems and have been extended to distributed systems. Those approaches are unrealistic, taking into account the natural locality of decisions in distributed systems, lack of global state, asynchrony of communication, local action autonomy, inevitable nondeterminism, etc. We are launching a Special Issue on such aspects of modeling, specification, verification, and simulation of distributed systems.

Suggested topics:

- Integrated Model of Distributed Systems;
- Communication duality in distributed systems, Lauer–Needham postulate;
- Algebraic models of distributed systems;
- Asynchronous specification of distributed systems;
- Automata-based modeling of distributed systems;
- Timed/Probabilistic specification and verification of distributed systems;
- Automated deadlock detection in distributed systems;
- IoT protocols verification;
- Static analysis of distributed systems;
- Distributed termination;
- IMDS vs. other models of distribution;
- Modeling code mobility in distributed systems.





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Editor-in-Chief

Prof. Dr. Willy Susilo

School of Computer Science and Software Engineering, University of Wollongong, Northfields Avenue, Wollongong, NSW 2522, Australia

Message from the Editor-in-Chief

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Information Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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