Preface to the
First International Workshop on Current Compliance Issues in Information Systems Research

Stephan Kühlne1, Stefan Sackmann1, Simon Trang2

1 Martin Luther University Halle-Wittenberg, 06108 Halle (Saale), Germany
{stephan.kuehnel, stefan.sackmann}@wiwi.uni-halle.de
2 Universität Goettingen, 37073 Goettingen, Germany
strang@uni-goettingen.de

1 Content Description of CIISR

"Compliance" refers to rule adherence, i.e., acting in accordance with applicable rules originating from various sources, including laws, standards, contracts, guidelines, etc. [1, 2]. Compliance has been a relevant topic in Information Systems Research (ISR) for several decades, whose initial focus was primarily on the (semi-)automated support in ensuring and validating rule conformity [3–5]. Nowadays, compliance is approached from a variety of different perspectives. As part of information security management, for instance, it is examined which operational compliance measures result in desired employee behavior [6, 7]. For instance, in the context of cloud computing, how compliance with service level agreements can be ensured in hybrid cloud architectures is examined [8, 9]. In the context of business process management, for instance, it is examined how compliance of business processes can be ensured sustainably and economically in digitalized and electronic markets [10–12].

The Workshop on Current Compliance Issues in Information Systems Research was intended as a prelude to an exchange format that will enable a continuous exchange of scientists and also practitioners in this field. Therefore, the first International Workshop on Current Compliance Issues in Information Systems Research (CIISR 2021) was held on March 9th, 2021, in conjunction with the 16th International Conference on Wirtschaftsinformatik (WI2021). Based on the conference's main theme—"Innovation through Information Systems - Business & Information Systems Engineering as a Future-Oriented Discipline"—the workshop discussed current compliance issues with high relevance to the ISR area.
2 Submission and Paper Selection

We invited the scientific community to submit discussion papers and also research results as contributions to the workshop. Submissions to the CIISR workshop were welcome that had their focus on main topics like ensuring compliance with information security policies, compliance issues in the context of clouds, ensuring business process compliance, current IT compliance issues, and – for a given current occasion – the impact of the COVID-19 pandemic on compliance in the ISR environment. We invited submissions to the above-mentioned main topics that can be assigned to one of the following three submission types:

1) **Completed research papers/complete practical reports**
   This submission type includes both advanced research with at least partial evaluation and comprehensive practical contributions.

2) **Short papers (research in progress papers/short practical reports)**
   Short papers represent ongoing research or ongoing practical projects. In addition to presenting initial results, these papers should also include an outlook on further research or project progress, including planned future work steps.

3) **Extended abstracts**
   Extended abstracts present and discuss high-quality results of already published contributions (or dissertations/postdoctoral theses) relevant to the workshop topic.

Completed research contributions and complete practical reports must not exceed 12 pages, short papers must not exceed six pages, and extended abstracts must not exceed four pages, including title, abstract, bibliography, author details, and acknowledgments. Possible appendices are not included in the pagination.

Each paper submitted for the workshop was reviewed by at least two reviewers using a rigorous double-blind review. Each paper was evaluated for five criteria: 1) quality of content, 2) significance for theory and practice, 3) originality and level of innovativeness, 4) fitting to the workshop theme, and 5) quality of presentation. The three workshop chairs subsequently discussed the review results of each paper, resulting in a decision of acceptance or rejection. A total of seven papers were submitted to the workshop, of which four were accepted as full papers and one as a short paper. Accordingly, the acceptance rate of full papers was 57%.
3 Workshop Content

The first International Workshop on Current Compliance Issues in Information Systems Research (CIISR 2021) took place on March 9th, 2021, and was conducted online. We are pleased to report that the workshop was well received by the research community. 42 conference attendees were registered for the workshop and, finally, more than 50 attended. The workshop and the workshop proceedings at hand contain six contributions, including one paper on the keynote speech of the workshop chairs, the four accepted full papers, and the accepted short paper.

The paper Towards a Business Process-based Economic Evaluation and Selection of IT Security Measures accompanying the keynote speech particularly focuses on the ProBITS project, which is funded by the German Federal Ministry of Education and Research (BMBF) since April 2021 and deals with the process-based economic evaluation of IT security measures.

The full paper Analysis of Public Cloud Service Level Agreements – An Evaluation of Leading Software as a Service Providers by Michael Seifert analyses compliance in the context of cloud computing. His research is dedicated to reducing the heterogeneity of service level agreements that might ease cloud services networks and manage compliance to the aspects agreed on.

The full paper Software Compliance in Different Industries: A Systematic Literature Review by Mohammed Mubarkoot and Jörn Altmann analyses compliance of recent software development. Based on a systematic literature review existing frameworks of software compliance management are identified and compared to the needs of different industries. The results show that heterogeneity of approaches exist that should be further researched.

The full paper Reviewing the Interrelation Between Information Security and Culture: Toward an Agenda for Future Research by Sebastian Hengstler and Natalya Pryazhnykova is dedicated to analyzing the relevance of culture to information security on different levels. Their results show that cultural aspects are relevant in different areas of information security, namely information security governance, awareness programs, in its influence on compliance behavior and when designing an organizational security culture. They propose to further analyze the connection between culture and information security in the light of their identified research areas to better understand the impact of culture on security compliance.

The full paper Culture Matters – A Cross-Cultural Examination of Information Security Behavior Theories by Sebastian Hengstler analyses different theories for en-
suring information security compliance behavior with respect to different national cultures. It is shown that several aspects work differently in different national cultural contexts. The conclusion suggests that taking a differentiated view in the future might improve information security policy compliance behavior.

The short paper **MIA – A Method for Achieving Compliance in Flexible and IT Supported Business Processes** by Tobias Seyffarth presents a holistic framework for managing business process compliance. His research models the relations between compliance requirements, business process activities, and underlying IT components. The model, thus, allows interesting analysis of the relations, especially when changes become necessary.

4 Organization and Acknowledgement

The primary responsibility for the workshop lay on the shoulders of Dr. Stephan Kühlner (general workshop and web chair), who was supported by Prof. Dr. Stefan Sackmann and Prof. Dr. Simon Trang (workshop chairs). Stephan Kühlner and Stefan Sackmann are researchers in the field of business process compliance at the Chair of Business Informatics, esp. Business Information Management at the Martin Luther University Halle-Wittenberg. Both are actively researching in the field of economic evaluation of business process compliance and security. Simon Trang is a researcher in the field of information security management and holds the Chair for Information Security and Compliance at the Georg August University of Göttingen. His research focuses on the economic aspects of information security measures and the human aspects of information security.

Although the number of submissions to the workshop was manageable, establishing a new workshop in the community was not possible without the help of others. Thus, we are very thankful for all the support we received from the teams of the respective chairs. Furthermore, we are very thankful for the support during the review process. We were happy to find so many researchers supporting us as Program Committee, namely (in alphabetic order): Michael Fellmann (University of Rostock, Germany), Barbara Gallina (Mälardalen University, Sweden), Nadine Guhr (Leibniz University Hannover, Germany), Simon Hacks (KTH Royal Institute of Technology Stockholm, Sweden), Sebastian Hengstler (Georg August University of Göttingen, Germany), Peter Hofmann (University of Bayreuth, Germany), Martin Schultz (HAW University of Applied Sciences Hamburg, Germany), Michael Seifert (GISA GmbH, Germany), Tobias Seyffarth (Martin Luther University Halle-Wittenberg, Germany), Frank Teuteberg (Osnabrück University, Germany), and Nils Urbach (University of Bayreuth, Germany). Last but not least, thanks are also due to Sebastian Lindner (Martin Luther University of Halle, Germany) in his function as web chair and the WI’2021-team for the support in organizational and technical aspects.
References


