Preface

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Published online: 8 May 2019
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This second issue of our fifth volume of the Journal of Reliable Intelligent Environments consists of four papers. One of them is a Survey Paper in and three other report on core technical advances in health security and automation engineering.

Literature Review and Metadata Analysis of Ransomware Attacks and Detection Mechanisms, by A. Maigida, S. Abdulhamid, M. Olalere, J. Alhassan, H. Chiroma, and D. Gbenga, offers a survey on a well-known security area, one which still requires more work, because despite media coverage the problem still persists, partly due to evolving platforms which may help confuse non-technology savvy users, and authors advocate for a shift in strategy.

Cybersecurity Design Considerations for Cross-boundary Clinical Decision Support, by O. Anya, H. Tawfik, M. Alani and J. Hu, addresses the increasingly common and important challenge of providing security to sensitive personal data which have to be shared across various users and systems.

Risk Management for Nuclear Medical Department using Reinforcement Learning Algorithms, by G. Paragliola and M. Naeem, explains a new approach to increase reliability of assessing risk situations for medical environments through formal reward-based modelling and prediction.

A Design for Autonomous Self-building Blocks, by W. Wang, Z. Lu and C. Tsui, provides an explanation on and insights into the hands-on process of designing, developing and testing new infrastructure, an exercise which is uncommon and still very important for our community to have access to.

We hope these articles stimulate the community to further improvements in this area and perhaps to collaborations between the participating teams so that complementary solutions can be used in a combined way to tackle more complex problems.

Publisher's Note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

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