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Runtime Verification

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This book constitutes the refereed proceedings of the 18th International Conference on Runtime Verification, RV 2018, held in Limassol, Cyprus, in November 2018. The 21 full papers presented together with 3 short papers and 3 tool papers were carefully reviewed and selected from 49 submissions. The RV conference is concerned with all aspects of monitoring and analysis of hardware, software and more general system executions. Runtime verification techniques are lightweight techniques to assess correctness, reliability, and robustness; these techniques are significantly more powerful and versatile than conventional testing, and more practical than exhaustive formal verification. Chapter "Hardware-based Runtime Verification with Embedded Tracing Units and Stream Processing" is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

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