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	Sommario/riassunto	This book is a revised version of the PhD dissertation written by the author at Sapienza – Università di Roma in Italy. Robotic Process Automation (RPA) is an automation technology in the field of BPM that creates software robots to automate rule-based and repetitive tasks performed by human users in their applications' user interfaces (UIs). The research underlying this thesis is targeted to: (i) automatically understand which user actions contribute to which routines inside a UI log and (ii) automatically generate executable RPA scripts directly from the UI logs. To this end, a cross-platform software tool called smartRPA was developed, which is able to generate executable RPA scripts, and

then validated on four non-functional requirements to measure the quality of the underlying approach. In 2023, the PhD dissertation won the "BPM Dissertation Award", granted to outstanding PhD theses in the field of Business Process Management.