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| Autore | Carvalho Matheus C. |
| Titolo | Practical laboratory automation : made easy with autoIt / / Matheus C. Carvalho |
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| ISBN | 3-527-80198-7<br>1-5231-1532-7<br>3-527-80196-0<br>3-527-80195-2 |
| Descrizione fisica | 1 online resource (269 pages) : illustrations, tables |
| Disciplina | 502 |
| Soggetti | Laboratories - Automation |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references at the end of each chapters and index. |
| Nota di contenuto | Introduction -- The very basics of AutoIt -- Timed scripts -- Interactive scripting -- Scripting with controls -- E-mail and phone alarms -- Using low-cost equipment for laboratory automation -- Arrays and strings -- Data processing with spreadsheets -- Working with databases -- Simple remote synchronization -- Remote synchronization using remote control software -- Text-based remote synchronization -- Remote synchronization using IRC -- Remote synchronization using Windows LAN tools -- Remote synchronization using third-party LAN software -- Interacting with devices via COM ports -- Introduction to graphical user interface (GUI) -- Using GUI to control instruments -- Multitasking GUIs -- Adding graphical elements to a GUI -- Creating GUIs using Koda -- Some suggestions -- Other SciTE features -- Optical character recognition -- Scripting with nonstandard controls (UIA). |
| Sommario/riassunto | Adopting a practical approach, this timely book closes the gap between general and programming books on AutoIt and those on laboratory automation. Following an introduction to scripting using the freeware, the most important functions are explained before step-by-step |

explanations and additional software tools enable readers without prior knowledge to use AutoIt for automation tasks in their labs to streamline otherwise time-consuming and error-prone workflows. Many exercises are offered throughout the book following the idea of "learning by doing", and real-world examples illustrate applications of the technique. A supplementary website features additional software for downloading.