Contents

List of figures ........................................ page x
List of tables ............................................ xii
Notes on contributors ................................... xiii
Acknowledgments ......................................... xvii

Part I Introduction

Science on the rise: birth and development of the Concealed Information Test 3
CHRISTOPHER J. PATRICK

1 Encouraging the use of the Guilty Knowledge Test (GKT): what the GKT has to offer law enforcement 12
WILLIAM G. IACONO

Part II The laboratory: theoretical and empirical foundations of the Concealed Information Test

2 Detecting concealed information using autonomic measures 27
MATTHIAS GAMER

3 Detecting concealed information in less than a second: response latency-based measures 46
BRUNO VERSCHUERE AND JAN DE HOUWER

4 P300 in detecting concealed information 63
J. PETER ROSENFELD

5 Detecting of deception and concealed information using neuroimaging techniques 90
MATTHIAS GAMER
Part III  Field applications of concealed information detection: promises and perils

8 Limitations of the Concealed Information Test in criminal cases 151
DONALD J. KRAPOHL

9 Validity of the Concealed Information Test in realistic contexts 171
EITAN ELAAD

10 Leakage of information to innocent suspects 187
M. T. BRADLEY, CLAIR A. BAREFOOT, AND ANDREA M. ARSENAULT

11 Countermeasures 200
GERSHON BEN-SHAKHAR

12 Psychopathy and the detection of concealed information 215
BRUNO VERSCHUERE

13 Clinical applications of the Concealed Information Test 231
JOHN J. B. ALLEN

14 Daily application of the Concealed Information Test: Japan 253
AKEMI OSUGI

15 The Concealed Information Test in the courtroom: legal aspects 276
GERSHON BEN-SHAKHAR AND MORDECHAI KREMNITZER
## Contents

<table>
<thead>
<tr>
<th>Part IV</th>
<th>Conclusions</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>Practical guidelines for developing a CIT</td>
</tr>
<tr>
<td></td>
<td>EWOUT MEIJER, BRUNO VERSCHUERE, AND GERSHON BEN-SHAKHAR</td>
</tr>
<tr>
<td></td>
<td>Epilogue: current status and future developments in CIT research and practice</td>
</tr>
<tr>
<td></td>
<td>GERSHON BEN-SHAKHAR, BRUNO VERSCHUERE, AND EWOUT MEIJER</td>
</tr>
</tbody>
</table>

*Index* 310