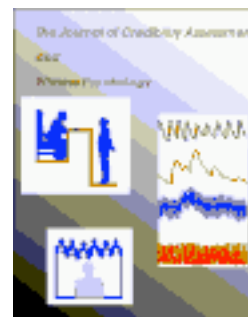


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Special Issue:

Proceedings of the Workshop on the Use of Autonomic and Somatic Measures for Security Evaluations

Andrea K. Webb and John C. Kircher

University of Utah

Notes: Correspondence concerning the articles in the special issue should be directed to John C. Kircher, Department of Educational Psychology, University of Utah, Salt Lake City, Utah, 84112. Kircher@ed.utah.edu

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Introduction to the Special Issue

In the summer of 2005, the National Science Foundation sponsored a series of six workshops on security evaluations. One purpose of the workshops was to develop an agenda for research on credibility assessment. The articles in this special edition are the presentations given by the invited speakers at the Workshop on the Use of Autonomic and Somatic Measures for Security Evaluations. This workshop covered four areas: needs of government agencies charged with national security; current methods used for measuring stress and detecting deception with autonomic and somatic measures; contemporary theory and psychophysiological mechanisms underlying responses to stress and deception; and emerging, alternative, and auxiliary methods and measures for detecting stress and deception. The articles are organized into these four areas as follows:

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| 1. Needs of government agencies charged with national security | |
| Polygraph Screening | Don Krapohl |
| 2. Current methods used for measuring stress and detecting deception with autonomic and somatic measures | |
| Issues in the study of polygraph screening techniques | Michael Bradley |
| Using the Polygraph in Employment and National Security | David C. Raskin & Charles R. Honts |
| Emerging Technologies in Credibility Assessment | Andrew H. Ryan, Jr. |
| 3. Contemporary theory and psychophysiological mechanisms underlying responses to stress and deception | |
| Toward a Neurocognitive Basis of Deception | Ray Johnson, Jr. |
| The Polygraph: One Machine, Two World Views | Stephen W. Porges |
| 4. Emerging, alternative, and auxiliary methods and measures for detecting stress and deception | |
| <i>Voice Stress</i> | |
| The Use of Voice in Security Evaluations | Harry Hollien & James Harnsberger |
| Voice Stress | James Meyerhoff |
| Evaluating Voice-Based Measures for Detecting Deception | Mitchell S. Sommers |
| <i>Thermal Imaging</i> | |
| Emerging Methods and Measures for Detecting Stress and Deception: Thermal Imaging | Dean Pollina |

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| <i>Odor</i> | |
| Body Odors as Biomarkers for Stress | Pamela Dalton |
| <i>Radar, Laser Doppler Vibrometry</i> | |
| Radar Technology for Acquiring Biological Signals | Gene Greneker |
| The Physiology of Threat: Remote Assessment Using Laser Doppler Vibrometry | John W. Rohrbaugh, Erik J. Sirevaag, John A. Stern, and Andrew H. Ryan, Jr. |
| <i>Oculomotor Activity</i> | |
| The Gaze Control System and Detection of Deception | John A. Stern |
| Eye Movement-Based Assessment of Concealed Knowledge | Frank M. Marchak |
| Multimethod Assessment of Deception on Personnel Tests: Reading, Writing, and Response Time Measures | Andrea K Webb, Sean D. Kristjansson, Dahvyn Osher, Anne E. Cook, John C. Kircher, Douglas J. Hacker, and Dan J. Woltz |

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