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Nota di contenuto	FrontMatter -- Preface -- Contents -- PART I Workshop Summary -- Workshop Summary -- INTRODUCTION -- WORKSHOP SESSIONS AND THEMES -- RESEARCH ISSUES AND PROSPECTS -- PART II Workshop Papers -- OPENING ADDRESS -- Emergent Themes in Social Network Analysis: Results, Challenges, Opportunities-Ronald L. Breiger -- SESSION I Social Network Theory Perspectives -- Finding Social Groups: A Meta-Analysis of the Southern Women Data-Linton C. Freeman -- Autonomy vs. Equivalence Within Market Network Structure?-Harrison White -- Social Influence Network Theory: Toward a Science of Strategic Modification of Interpersonal Influence Systems-Noah E. Friedkin -- Information and Innovation in a Networked World-David Lazer -- SESSION II Dynamic Social Networks -- Informal Social Roles and the Evolution and Stability of Social Networks-Jeffrey C. Johnson -- Dynamic Network Analysis-Kathleen M. Carley -- Accounting for

Degree Distributions in Empirical Analysis of Network Dynamics-Tom A.B. Snijders -- Polarization in Dynamic Networks: A Hopfield Model of Emergent Structure-Michael W. Macy, James A. Kitts, Andreas Flache, and Steve Benard -- Local Rules and Global Properties: Modeling the Emergence of Network Structure-Martina Morris -- Social Networks From Sexual Networks to Threatened Networks-H. Eugene Stanley and Shlomo Havlin -- SESSION III Metrics and Models -- Sensitivity Analysis of Social Network Data and Methods: Some Preliminary Results-Stanley Wasserman and Douglas Steinley -- Spectral Methods for Analyzing and Visualizing Networks: An Introduction-Andrew J. Seary and William D. Richards -- Statistical Models for Social Networks: Inference and Degeneracy-Mark S. Handcock -- The Key Player Problem-Stephen P. Borgatti -- Balancing Efficiency and Vulnerability in Social Networks-Elisa Jayne Bienenstock and Phillip Bonacich. Data Mining on Large Graphs-Christopher R. Palmer, Phillip B. Gibbons, and Christos Faloutsos -- SESSION IV Networked Worlds -- Data Mining in Social Networks-David Jensen and Jennifer Neville -- Random Effects Models for Network Data-Peter D. Hoff -- Predictability of Large-scale Spatially Embedded Networks-Carter T. Butts -- Using Multi-theoretical Multi-level (MTML) Models to Study Adversarial Networks-Noshir S. Contractor and Peter R. Monge -- Identifying International Networks: Latent Spaces and Imputation-Michael D. Ward, Peter D. Hoff, and Corey Lowell Lofdahl -- SUMMARY Themes, Issues, and Applications -- Linking Capabilities to Needs-Kathleen M. Carley -- APPENDICES -- A Workshop Agenda -- B Biographical Sketches.

Sommario/riassunto

In the summer of 2002, the Office of Naval Research asked the Committee on Human Factors to hold a workshop on dynamic social network and analysis. The primary purpose of the workshop was to bring together scientists who represent a diversity of views and approaches to share their insights, commentary, and critiques on the developing body of social network analysis research and application. The secondary purpose was to provide sound models and applications for current problems of national importance, with a particular focus on national security. This workshop is one of several activities undertaken by the National Research Council that bears on the contributions of various scientific disciplines to understanding and defending against terrorism. The presentations were grouped in four sessions - Social Network Theory Perspectives, Dynamic Social Networks, Metrics and Models, and Networked Worlds - each of which concluded with a discussant-led roundtable discussion among the presenters and workshop attendees on the themes and issues raised in the session.
