CONTENTS -

Preface	v
Contributors and Participants	xiii
PART 1: OPENING AND KEYNOTE ADDRESSES	1
Histadrut's Leading Role in Israel Economy and Society I. Kesar	3
Working at Leisure B. Sherman	7
Impact of Automation and Robotics on Employment in Israel I.H. Meidan	19
PART 2: ARTIFICIAL INTELLIGENCE AND ROBOTICS	35
Salient International Socio-Economic Impacts of Artificial Intelligence and Robotics H. Sackman	37
The Inanimate and the Intelligent J. Regev	53
On the Impact of Industrial Automation, Robotics and Artificial Intelligence on the Vulnerability of Information Economy K. Brunnstein	69
PART 3: THE IMPACT OF ADVANCED TECHNOLOGY AND ROBOTICS ON KIBBUTZ LIFE	79
High-Tech in Kibbutz Industry: Structural Factors and Social Implications M. Rosner	81
High-Tech in the Kibbutz Industry: A Case Study M. Palgi	87
Kibbutz-Industry — Future for a Socialistic Experiment? M. Landwehr	97

Contents

X

Y. Hecht

PART 4: ADVANCED TECHNOLOGY AND ITS IMPACT ON LABOR RELATIONS	103
Industrial Robots — Social Consequences and Union Policy P. Kolm	105
Technological Changes: Their Impact on Labour Relations and on Human Resources Management O. Carmi and J. Gattegno	113
Trade Union Experience with Advanced Industrial Automation in the FRG — New Challenges and New Economic Constraints U. Briefs	123
Man, Work and Modern Machine Technique: Discourse on Valuations J. Drumm	129
PART 5: THE INFLUENCE OF TECHNOLOGY ON ORGANIZATION, SOCIETY AND THE INDIVIDUAL	149
$\label{eq:hydronequation} \begin{tabular}{ll} Human Resources Innovative Environment $-$ A System Perspective \\ I. \begin{tabular}{ll} Meshoulam \\ \end{tabular}$	151
On Robots & Spouses: Social Interaction In and Out the Robotized Workplace O. Shenkar and J. Richter	163
Law and Computer — Some Social Aspects L. Horev	173
Sensitive Problems of an 'Informational Society': Sociotechnical Handling of Complex Organizations, People, Modern Technology, States, and Societies	
A.K. Matejko	183
New Technologies and New Patterns of Social Organization and Social Change G. Schmidt	227
The Protagonists in Innovation: Who Gains What? N. Alter	233
PART 6: TRAINING IN THE AGE OF CONSTANT TECHNOLOGICAL CHANGE	247
The Penetration of Technologies and its Impact on Vocational Training from the Point of View of Job Mobility	. 40

249

Contents	хi

The Issues of the Robotization on Qualifications: Ineluctable or Not? The Stakes of Training	
J. Berleur, B. Detrembleur and C. Lobet-Maris	255
Robot Odyssey: A Microworld Starring Robots as Humans' Helpers T. Perl	257
The ORT Robotics and Automation Project D. Sharon and J. Harstein	259
PART 7: WORKING GROUP REPORTS AND FINAL PANEL REMARKS	277
Introduction to Working Groups — Discussion Group Statements B. Sherman	279
Report of Working Group — Impact of Artificial Intelligence K. Brunnstein	281
Workshop on Kibbutz High-Tech M. Palgi	283
Panel Discussion: A Public Philosophy for Social Excellence in the Information Age	
H. Sackman	287
Panel Discussion — Summary B. Sherman	289
#1 W	,