# CONTENTS

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
</table>
| vii  | A Guest Editorial  
*Paul R. Meyer, Jr., M.D.* |
| x    | Letters to the Editor  
*John W. Michael, M.Ed., C.P.O.* |

## Scientific/Engineering Articles

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
</table>
| 1    | Design and evaluation of a sensory feedback system that provides grasping pressure in a myoelectric hand  
*Patrick E. Patterson, PhD; Judd A. Katz, EdD* |
| 9    | Effect of functional bracing, quadriceps and hamstrings on anterior tibial translation in anterior cruciate ligament insufficiency: A preliminary study  
*Jens Bagger, MD; Jesper Ravn, MD; Peter Lavard, MD; Peter Blyme, MD; Christian Sørensen, MD* |
| 13   | A portable insole plantar pressure measurement system  
*Jacqueline J. Wertsch, MD; John G. Webster, PhD; Willis J. Tompkins, PhD* |
| 19   | Toward a practical mobile robotic aid system for people with severe physical disabilities  
*Michael A. Regalbuto, PhD; Thomas A. Krouskop, PhD; John B. Cheatham, PhD* |
| 27   | Development of an automated wheelchair guided by a magnetic ferrite marker lane  
*Hiroo Wakaumi, BEng; Koichi Nakamura, BEng; Takayoshi Matsumura, BEng* |
| 35   | Safety studies with the University of Melbourne multichannel electrotactile speech processor  
*Robert S.C. Cowan, PhD, DipAud; Peter J. Blamey, PhD; Joseph I. Alcântara, BSc, DipAud; Peter A. Blombery, MD; Ian J. Hopkins, MD, FRACP; Lesley A. Whittford, BSc, DipAud; Graeme M. Clark, PhD, FRCS, FRACS* |
| 53   | Speech recognition performance on a modified nonsense syllable test  
*Stanley A. Gelfand, PhD; Teresa Schwander, MEd; Harry Levitt, PhD; Mark Weiss, MS; Shlomo Silman, PhD* |

## Departments

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
</table>
| 61   | Abstracts of Recent Literature  
*Joan E. Edelstein, MA, PT* |
| 67   | Book Reviews  
*Jerome D. Schein, PhD; Bruce B. Blasch, PhD; Franklyn K. Coombs; William De l'Aune, PhD; Alexandra Enders, OTR* |
<table>
<thead>
<tr>
<th>Page</th>
<th>Section</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>71</td>
<td>Publications of Interest</td>
<td>Beryl M. Benjers, PhD</td>
</tr>
<tr>
<td>94</td>
<td>Calendar of Events</td>
<td>Beryl M. Benjers, PhD</td>
</tr>
<tr>
<td>102</td>
<td>Index to JRRD Vol. 28 (1991)</td>
<td></td>
</tr>
</tbody>
</table>

**Editor’s Note**

Beginning with this issue, the *Notice to Contributors* printed on page ii, will inform authors that manuscripts are now required to be submitted in the “Vancouver” style. In the Vancouver style, now clearly and firmly established by the International Committee of Medical Journal Editors and published by the N Engl J Med 1991;324:424-8, as the generally accepted format for biomedical journals, references in the text are numbered consecutively in the order in which they appear and are identified by arabic numerals in parentheses. All papers published in the *Journal of Rehabilitation Research and Development* from the beginning of 1992 will be in the Vancouver format. All articles in this issue are referenced in the Vancouver style. Examples of this new format are listed in the *Notice to Contributors* on page ii.