Notes for Contributors

1. Manuscripts should preferably be written in English, but papers in French and German will also be accepted. All manuscripts will be referred to acknowledged experts in the subject. Only those receiving favourable recommendations from the referees will be accepted for publication. Manuscripts may be sent to any Board member, any Deputy Editor or the Editor.

2. Typescripts should be double spaced, on one side of good grade paper, allowing a reasonable left-hand margin. An original and two copies should be submitted with the author's full postal address, position and affiliations.

3. A short abstract of about 80 words should precede the main text. *List of symbols*: A typewritten list of any special symbols should be submitted with the manuscript. The list should not define the symbols mathematically, but should serve to identify them typographically. The list will not appear in print, but is essential to help the typesetter and to avoid costly correction in proof.

4. One copy of photographs, prints or transparencies of good quality and unmarked should be submitted. Where lines or lettering are to appear on the photograph, an additional print should be supplied appropriately marked. Each should have, lightly written on the back, the author's name, the figure number and an indication of which is the top of the picture.

5. One copy of each line diagram should be submitted at approximately twice final size and unlettered. Diagrams must be drawn in indian ink on plain white or transparent paper. A second copy should be supplied with lettering included. The author's name and the figure number should be written on this copy. Figures should be numbered consecutively, with arabic numerals, have descriptive captions, and be mentioned in the text. The correct position for each figure should be indicated in the margin of the manuscript.

6. Tables should be typewritten on separate sheets. Avoid, where possible, very wide tables. Number tables consecutively with roman numerals. Each should have a brief heading. Exceptionally lengthy tables may be summarized for publication with a note that copies of details can be obtained from the authors.

7. Equations: Wherever possible, mathematical equations should be typewritten, with subscripts and superscripts clearly indicated. The printer will set all mathematical symbols in italics unless otherwise indicated; symbols or letters to be set in roman (upright) type should be encircled in pencil, while bold letters should be shown by a wavy underline.

8. References: In the text, references are indicated by superior arabic numbers (without brackets), and should be confined to publish work that is directly pertinent. References should be listed at the end of the paper in numerical order. Authors' initials should precede their names; cited article titles should be quoted in full, enclosed in quotation marks; and abbreviations of journal names should follow the style of Chemical Abstracts or Physical Abstracts, and be underlined for italics: P.W. Anderson, "More is different" Science 177, 393 (1972) C.V. Negoita, Fuzzy Systems (Abacus Press, Tunbridge Wells, UK, 1980)

Citations such as 'personal communication', 'unpublished work', etc., are not acceptable as numbered references but can be included in parenthesis in the text. Do not use summaries as references.

9. *Proofs:* Page proofs will be sent to authors for correction, for return within 48 hours by airmail. Correction to proofs should be restricted to printers' errors only. Authors are entitled to 25 offprints of their article free of charge. Additional offprints may be purchased if they are ordered on the form sent with the proofs.

10. Manuscripts, whether accepted or rejected, will not be returned to the authors.

11. Submission of an article will be taken to imply that it has not been previously published and that it is not on offer to any other publisher.



Volume 7 Part 4

October 1989

CONTENTS

Reports and Surveys (Automation Research Projects, Automation Worldwide, Company Developments in Automation, European Robot Statistics, Robots in the Japanese Construction Industry, Software Developments), B. H. Rudall (UK)	275
Design of an Advanced Robotic Vehicle Evaluation Laboratory, Richard E. Jarka, Zeinab A. Sabri, S. Keith Adams, Enju Liang, Michael Barnett, Rodrigo J. Rodriguez and Abdo A. Husseiny (USA)	281
A Novel Tactile Sensor for Robot Applications, F. Eghtedari and C. Morgan (UK)	289
Time-Suboptimal Quasi-Continuous Path Generation for Industrial Robots, I. Troch (Austria)	297
Robotic Force Control for Deburring Using an Active End Effector, G. M. Bone and M. A. Elbestawi, (Canada)	303
Combined Time/Location Optimization of Robotic Motions with Specified Paths and Velocity Profiles, L. Beiner (Israel)	309
Nonlinear Control Robot: A Phenomenological Approach to Linearization by Static Feedback, M. Verdier, M. Rouff and J. G. Fontaine (France)	315
Isoelastic Behaviour of Parallel Robots, F. Artigue, M. Y. Amirat and J. Pontnau (France)	323
A Parameter Identification Method for Robot Dynamic Models Using a Balancing Mechanism, T. G. Lim, H. S. Cho and W. K. Chung (Korea)	327
Effect of Joint Stiffness on the Dynamic Stability of a One-Link Force- Controlled Manipulator, Bing C. Chiou and M. Shahinpoor (USA)	339
Recursive Formulation for the Analytical or Numerical Application of the Gibbs-Appell Method to the Dynamics of Robots, K. Desoyer and P. Lugner (Austria)	343
Stability Analysis of Mechanisms Having Unpowered Degrees of Freedom, B. Borovac, M. Vukobratović and D. Stokić (Yugoslavia)	349
Conference News	359
Book Reviews	363
Announcements	371
Special Announcement	372

© CAMBRIDGE UNIVERSITY PRESS 1989

Cambridge University Press The Pitt Building, Trumpington Street, Cambridge CB2 1RP, UK 40 West 20th Street, New York, NY 10011, USA 10 Stamford Road, Oakleigh, Melbourne 3166, Australia

Printed in Northern Ireland by The Universities Press (Belfast) Ltd.