

## 33rd Annual

## International Conference of the IEEE Engineering in Medicine and Biology Society

August 30-September 3, 2011 Boston, MA USA Conference Chair and Co-Chair: Ricardo Armentano and Donna Hudson Program Chair and Co-Chair: Jorge E. Monzon and James L. Patton



EDITOR'S NOTES: The 33rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society hosted an electronic paper submission process for the conference. It was the responsibility of the submitting Author to ensure that the document was viewable and without errors that would prevent the Conference from including the paper in the DVD or Print Proceedings. In the event a paper was submitted that could not be viewed or printed properly, the Conference elected to only publish the abstract of the paper in the Proceedings.

All conference papers were peer-reviewed by experts chosen by the Conference Editorial Board for all contributed, invited and minisymposia papers.

AUTHOR NO SHOW POLICY: EMBS enforces a "no show" policy. Any accepted paper included in the final program is expected to have at least one author attend and present the paper at the Conference. Authors of the accepted papers included in the final program who do not attend the Conference will be subscribed to a "No Show List", compiled by the Society. The "no-show" papers will be removed from the Master DVD and noted as "Author unavailable for presentation" prior to submitting to IEEE for inclusion in Xplore. The "No Show List" will also be made available to all EMBS conference organizers, who can reject submissions from these authors in the following two years, based on their past negative impact on an EMBS conference.

IEEE Catalog Number: CFP11EMB-DVD • ISBN: 978-1-4244-4122-8 • ISSN: 1557-170X © 2011 IEEE. Personal use of this material is permitted. However, permission to reprint/republish this material for advertising or promotional purposes or for creating new collective works for resale or redistribution to servers or lists, or to reuse any copyrighted component of this work in other works must be obtained from the IEEE. CD-ROM support, contact The Printing House, Inc. at +1-608-873-4500. For more information, please see the "Copyright" page.