

Call for Papers
IEEE Transactions on Human-Machine Systems

“Golden Jubilee Anniversary Issue of *Transactions on Man-Machine Systems*”

The present *Transactions on Human-Machine Systems (THMS)* finds its origins in several previous titles, including parts of the *Transactions on Systems, Man, and Cybernetics* (between 1971-1995 and 1998-2012) and the *Transactions on Man-Machine Systems (T-MMS)*; from 1968-1970). As some may recall, the latter title actually preceded the *Systems, Man & Cybernetics Society (SMCS)* within IEEE and was a product of the *IEEE Group on Systems Science and Cybernetics*. For many researchers working in the area of human-automation interaction, the *T-MMS* served as an outlet for high-quality scholarship. Over the years, several articles appearing in the issues of *T-MMS* have been cited as seminal works in the following areas:

- human-adaptive manual control
- human-computer coordination in multitasking scenarios
- participatory modes of human control of dynamic systems and failure detection
- human monitoring behavior in supervisory control
- human decision-making and workload in supervisory control scenarios
- modeling of human-machine interaction
- models of allocation of human and computer in supervisory control.

Given the pedigree of the current *Transactions (THMS)*, including the *T-MMS* line dating back to 1968, in 2018 we will publish a **Golden Jubilee Anniversary Issue**. This issue seeks to recognize and celebrate 50 yrs. of human-machine systems research appearing in archival publications of the IEEE as well as the contributions of early figures in human-automation interaction research, including (but not limited to) George A. Bekey, James C. Bliss, Jaime R. Carbonell, Renwick E. Curry, William R. Ferrell, Gunnar Johannsen, David L. Kleinman, Duane T. McRuer, Neville Moray, Raymond S. Nickerson, William B. Rouse, John W. Senders, Thomas B. Sheridan, and Laurence R. Young.

All submissions to the **Golden Jubilee Anniversary Issue** are expected to be review papers with formatted lengths of between 15-20 published pages. Specific topics of interest include:

- State-of-the-art in manual control of complex machine systems
- State-of-the-art in human-in-the-loop fault detection and diagnosis systems
- State-of-the-art in decision support systems for human multitasking performance
- State-of-the-art in supervisory control interface design
- State-of-the-art in human workload modeling in supervisory control
- State-of-the-art in adaptively automated systems for human control
- State-of-the-art in human-automation interaction modeling

Important Dates:

Review paper submission due date	December 31, 2016
Initial decision notification	March 15, 2017
Revised manuscript due date	May 15, 2017
Final decision notification	August 1, 2017
Final version of the manuscript due	September 30, 2017

Manuscripts should be submitted at: <http://mc.manuscriptcentral.com/thms> . All submissions must include a cover letter with the statement, “Submitted for Golden Jubilee Anniversary Issue.” For detailed submission information, please see the “Information for Authors” at: <http://www.ieeesmc.org/publications/transactions-on-human-machine-systems/information-for-authors> .

Editor:

David B. Kaber, North Carolina State University, dbkaber@ncsu.edu

All enquiries about the special issue should be sent to: dbkaber@ncsu.edu