



Macroergonomics Technical Group

The Macroergonomics Technical Group is concerned with improving productivity and the quality of work life by an integration of psychosocial, cultural, and technological factors with human-machine performance interface factors in the design of jobs, workstations, organizations, and related management systems.

TECHNICAL FOCUS

Work in this field is quite diverse, spanning applications in a variety of organizations and industries. Individuals in this technical group may be involved in conducting research, providing consultation to businesses, or applying knowledge in the area to their own organization's concerns. Work in this field is focused on the interaction of psychosocial, cultural, and technical factors with overall system performance. This encompasses a broad range of macroergonomic issues, including:

- Organizational Structures and Job Design
- Automation and Computerization and Informatics in Organizations
- Participatory Work Strategies, work design, TQM, QWL, and Quality Circles
- Corporate Culture, Communications, Leadership Roles and Styles
- Psychosocial and Cultural Characteristics of the Work Force
- Management and Implementation of Organizational and Technological Change
- Team and Group Work, Social Networks, Communities
- Participatory Design, Organizational Process Improvement
- Occupational Stress, Shift Work, Health Management, and Safety
- Organizational and External Environment of the Work
- Work System Design, Sociotechnical Systems Analysis and Design
- Ergonomics Program Design and Management
- and Management.

MEMBERSHIP

The TG consists of more than 300 members from a broad international community. These individuals work for government agencies, universities and colleges, service and manufacturing enterprises, and research and consulting firms. The group seeks to foster the exchange of information among members and to promote the expansion of the human factors profession to include considerations of the organizational context of work. Although not required, most members are members of the Human Factors and Ergonomics Society.

BENEFITS OF MEMBERSHIP

The Macroergonomics Technical Group, like other technical groups within the Human Factors and Ergonomics Society, performs a variety of functions and services for its members:

- The TG sponsors technical sessions, symposia, and panel sessions at the HFES Annual Meeting, providing the opportunity for the exchange of information with leading professionals in the field.

- The International Symposium on Human Factors in Organizational Design and Management is sponsored by the Macroergonomics TG and the IEA every two years in cities such as Kyoto, Japan; Stockholm, Sweden; Breckenridge, USA; The Hague, The Netherlands; Aachen, Germany ; Honolulu, Hawaii; and Sao Paulo, Brazil. Future meetings are planned for South Africa and Denmark. These meetings provide concentrated forums for exploring new developments in areas of interest to members.
- The TG's Bulletin, published three times per year, provides summaries of recent conferences, keynote addresses, new books and other works of interest, announcements of upcoming events, and a general forum for information exchange among members.
- Communication and networking among members are facilitated by a published directory of members and by a listserv (for more information, visit the web site of the Macroergonomics TG: <http://www.business.unbsj.ca/metg>).

Information about the Macroergonomics Technical Group can be obtained by contacting HFES. Membership in HFES is not required to join the TG.

ADDITIONAL READING

Readers who would like to learn more about the macroergonomics field should consult the following references:

- Bradley, G.E. and Hendrick, H.W. (Eds.) (1994). *Human Factors in Organizational Design and Management IV*. Amsterdam, The Netherlands: Elsevier
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- Carayon, P., Robertson, M., Kleiner, B., Hoonakker, P.L.T (Eds.). (2006). *Human Factors in Organizational Design and Management-VIII*. Santa Monica, CA: IEA Press.
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- Hendrick, H.W., and Kleiner, B.M. (Eds.) (2002). *Macroergonomics: Theory, Methods, and Applications*. Mahway, New Jersey: Lawrence Erlbaum.
- Hendrick, H.W., and Kleiner, B.M. (2001). *Macroergonomics: An Introduction to Work System Design*. Santa Monica, CA: HFES.
- Luczak, H., & Zink, L.J., (Eds.), *Human Factors in Organizational Design and Management-VII: Re-Designing Work and Macrergonomics – Future perspectives and Challenges*. Santa Monica, CA: IEA Press
- Noro, K., and Brown, O., Jr. (Eds.). (1990). *Human Factors in Organizational Design and Management: III*. Amsterdam: North-Holland.
- Noro, K., and Imada, A. (Eds.). (1991). *Participatory Ergonomics*. London: Taylor & Francis.
- Queinnec, Y., and Daniellou, F. (Eds.). (1991). *International Ergonomics Association 11th Annual Congress*. Paris: Taylor & Francis.
- Vink, P. (Ed.) (1998). *Human Factors in Organizational Design and Management - VI*. Amsterdam, The Netherlands: Elsevier Science Publishers