



CYBERG 2005: ADVANCE PROGRAMME

KEYNOTE ADDRESSES

Preliminary guidelines for wise use of IT by children	Straker, L., Pollock, C. & Burgess-Limerick, R.
Ergonomics and design: a user-centred design method	Soares, M.
Developing Countries - Working together to bridge the gap	Caple, D.

PHYSICAL ERGONOMICS

Ergonomics in the Health Industry

Evaluation of healthy behaviour in radiation employees in hospitals of Shiraz	Amirzadeh, F. & Tabatabaee, S.H.R.
Skinfold thickness, body fat percentage and body mass index in obese and non-obese Indian boys - a comparative study	Bandyopadhyay, A.
Cardiorespiratory fitness of Indian obese boys	Bandyopadhyay, A.
Possible use of heart rate to predict oxygen consumption during moderate intensity lifting	Christie, C.J., Forbes, M. & Wolfe, A.
Mechanomyography for non-invasive clinical diagnosis in musculoskeletal rehabilitation	McAndrew, D., Rosser, N., Gorelick, M., Philips, K., & Brown, J.M.M.

Ergonomics and Manual Handling Tasks

Pushing vs. pulling strength: effect of handle height and practical ergonomics application	James, J., Cripwell, A. & Furney, S.
A comparative study of energy cost in manual handling tasks between trained and untrained workers	Paris, M. & Kothiyal, K.
Relationship between palm grip strength in different positions and associated discomfort level	Aparício, P., Pombeiro, A., Santos, R. & Rebelo, F.
Current trends in research focussed on pushing and pulling	Todd, A.
Muscles fatigue of erector spinae induced by repetitive lifting	Lei, L. & Liang, Y.

Workspace Design

Working space analysis for a seated driver	Luo, Z., Fang, W. & Duh, H.B.
Diagnosis and design of workplaces at the ARCA factory	Brito, S.V., Hernandez, A.G.R., Morales, S.G. & Parra, A.S.
Ergonomic evaluation of two floor types in a car painting line	Rebelo, F., Gaspar J., Gomes, I., Fújão, C. & Santos, R.
Sidewalk potential trip points	Ayres, T.J. & Kelkar, R.

Ergonomics & Visual Displays

The classification of vigilance tasks in the real world: closed circuit television surveillance operators, a case study	Donald, F.
Spatial stimulus-response (S-R) compatibility for auditory signals in transverse and longitudinal orientations	Lee, F.C.H. & Chan, A.H.S.
Development of a simulation to facilitate visualization of the pilot's field of view afforded by the aircraft and aerodrome design	Khoo, E. & Lim, K.Y.
Visual Lobe Measurement System (VILOMS) for Lobe Characterization	Chan, A.H.S. & So, D.K.T.

Gait and Physiology

Physiological and perceptual responses of female debarkers during forestry work	Christie, C.J. & Scott, P.A.
Physiological stress on women at work: ergonomic considerations	Vinay, D. & Sharma, S.
A comparison of gait characteristics between Korean and Western people for establishing Korean normal data	Ryu, T., Choi, H., Choi, H.S. & Chung, M.K.
Effects of alcohol exposure on simulated maritime navigational ability	Kim, H., Yang, C., Lee, B. & Yang, Y.
Pilot study: lower extremity characterization protocol	Macduff, L.

Ergonomics & Accessibility

Comprehension of safety signs: internal and external variables influences and comprehension difficulties by disabled people	Duarte, M.E.C. & Rebelo, F.
An ageing population - a complex polemic paradigm	Gibbs, S.
Product design features for the needs and feelings of people aged 60 and above: Hong Kong case study	Lo, C.T.C. & Ho, K.L.J.
A methodology to evaluate the degree of accessibility	Vilar, E.P., Filgueiras, E.V., Sergio, J. & Rebelo, F.

COGNITIVE ERGONOMICS

Cognitive issues in Ergonomics

Neo-symbiosis; A tool for diversity	Griffith, D.
The semiotics of control room situation awareness	Hugo, J.
Influence of user-related factors on presence	Laarni, J., Ravaja, N., Kallinen, K. & Saari, T.
News structure in the press: a study of the applicability according to the analysis proposed by Van Dijk	Schmitt, V., Fialho, F.A.P. & Travassos, L.P.
Does risk recognition affect worker's hearing protection utilisation rate?	Arezes, P.M. & Miguel, A.S.
An investigation of the sentiments of having a dog for the design of a toy dog	Yeung, C.W. & Ho, J.K.L.

E-learning issues

Teaching human-machine systems engineering through e-learning: challenges, opportunities and tools	Fiset, Y.
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Enriching class teaching with ET	Gibbs, S. & Thompson, D.
Culture-centred interface design guidelines for web-based tutorial	Kim, H.N., Nam, C.S., Smith-Jackson, T.L. & Scales, W.A.
Videoconferencing system for high school classroom environments	Yeung, J.

Human Computer Interaction Theory

Notions of thoroughness, efficiency, and validity: are they valid in HCI practice?	Lindegard, G.
Overcoming encumbrances on the road to good theory: HCI as a catalyst for unified cognitive science	Boring, R.L.
The role of knowledge in the cyber world	Duchastel, P.
Concomitants of computer anxiety amongst peri-urban South African males	Fisher, J.

Knowledge Management

Multiple intelligence imagetive scenarios for leadership vision communication	Carvalho, M.A., Fialho, F.A.P & Travassos, L.P.
Competencies and strategies for organisational intelligence	Tamayo, H.V.B. & Fialho, F.A.P.
Administration of the knowledge and modelling of a system of information for the current process of distribution and donation of blood for the unit of collection and transfusion of Ariquemes-UCTA using UML	Abreu, E.F. & Bogarin, J.
SISCOP: A system of information for control and management of a penitentiary system	De Abreu, E.F. & Giacon, J.
A proposal for the modelling of knowledge in the transplanting of the bony medulla	De Abreu, E.F. & dos Santos, M.D.S.

Evaluation of Online Experiences

A comparative study of the degree of knowledge of users of Internet with emphasis on the wireless technology in the city of Ariquemes-RO - Brazil, in the year of 2004	De Abreu, E.F. & do Nascimento, R.F.
Preliminary usability analysis of an e-government web portal.	Arezes, P.
Usability experiences with South African online banking	Kruger, I. & Thatcher, A.
Visual design for a webpage	Siu, H.H.Y. & Ho, J.K.L.
Information seeking behaviours and cognitive strategies in different search tasks on the WWW	Thatcher, A.

ORGANISATIONAL ERGONOMICS

Community-based Ergonomics Interventions

Nopal industrialization project in San Bernadino Tlaxcalancingo	Lazcano, O.P. & Barrientos, G.L.
Ergonomics in the improvement of rural transport in sub-Saharan Africa	O'Neill, D.
Low cost ergonomic interventions in the packaging industry	Stanchev, V.

Organising Work

Principal components analysis of the aspects of work in telecommunication services	Nag, P.K., Poddar, E. & Nag, A.
Scientific management meets information technology: uses and abuses of call centre technology in South Africa	Miller, K. & Fisher, J.
Human factor problems in Russian power industry	Vasilieva, I.

Participative Ergonomics

Ergonomic analysis of the thermal environment: A case study for companies of the Alpaca textile sector of Arequipa - Peru	Huaman, E.A.F.C. & Fialho, F.A.P.
Roles of farmer trainers for participatory ergonomics in agriculture	Kogi, K. Kawakami, T., Ujita, Y., Khai, T.K.
Social and ecological brick making project in Cholula, Puebla, México	Barrientos, G.L. & Lazcano, O.P.
Participatory Ergonomics in meat processing	Caple, D.

GENERAL ERGONOMIC ISSUES

Educating people about Ergonomics

Advantages and disadvantages of rating and ranking journals in the field of ergonomics	Dul, J.
Educational ergonomics: applying ergonomics to higher education institutions	Mokdad, M.
Development of the concept of ergonomics at household level through a specially designed training module for house wives	Chaudhary, N. & Vinay, D.
A study comparing the human process of learning and the process of artificial learning through artificial neural networks	De Abreu, E.F. & Januario, L.K.F.
Study about viability of the use of pedagogic techniques to aid in sick children's recovery in the hospitals in the city of Redenção-PA	De Abreu, E.F. & Sousa, V.M.
'Transdisciplinarity' a new opportunity for team problem solving between, across and beyond the disciplines? – A case study	Toft, Y. & Joubert, D.

Methodology in Ergonomics

Visualization of production area information: How important is a 3D-Visualization?	Stowasser, S.
Digital human modelling for applied ergonomics and human factors engineering	Duffy, V.G.
Ergonomically based design of the human interface by means of the nanopositioning and nanomeasuring machine	Gramsch, T., Kurtz, P. & Gunnar, S.
A practical function allocation method for industrial human-system interfaces	Hugo, J. & Engela, H.
Positional measurements of human body postures in dynamic conditions by an improved kinematic arm	Goswami, R.N., Chetty, C.B.N., Kundu, R.R., Banerjee, S., Tibarewala, D.N. & Lahiri, B.N.

Usability Evaluations

Testing Outdoor Displays	Lotif, J., Maciel, R., Sampaio, .S. & Junior, A.J.M.L.
Multifunctional systems in vehicles - a usability evaluation	Rydström, A., Bengtsson, P., Grane, C. Broström, R., Agard, J., & Nilsson, J.
Ergonomic design of user guides in multimedia environments with remote controls and onscreen displays	Lutherdt, S. & Kurtz, P.
Applying the Nass model to developing world telephone interfaces	Naidoo, S. & Barnard, E.

SYMPOSIUM

Ergonomics in safety and security - mailrooms, general offices and health facilities	Gibbs, S., Head, M. & Brown, B.
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SPECIAL SESSION

Building & Maintaining Online Communities

Building and maintaining an online academic conference series	Thatcher, A.
Experiences with persons who maintain online communities	Cakir, A.
Bridging the digital divide in rural communities in Malaysia	Yeo, A.
