

JEAN-MARIE BURKHARDT

Maître de Conférences

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EDUCATION

1997 Ph. Dissertation (thèse de doctorat de troisième cycle) in Cognitive Psychology, Paris V University

1993 Master's Degree (DEA, Diplôme d'études approfondies) in Cognitive Psychology, Paris V University

1992 Master's Degree (DESS, Diplôme d'études supérieures spécialisées) in Cognitive Ergonomics, Paris V University

TEACHING EXPERIENCE

Pre-graduate and post graduate teaching

- Licence of Psychology, Paris 5 University (Statistics ; Ergonomics in New Technologies)
- Master of Psychology, option Work and Organizational Psychology, Paris 5 University (Ergonomics, Training and Technologies)
- Master of Ergonomics, Paris 5 University (Ergonomics, Training and Technologies)
- Master of Ergonomics, Paris 8 University (Software Ergonomics)

Post-graduate doctoral studies.

- 2nd CNRS Postgraduate Summer School on “Learning technology and cognition”, Autrans, July 2004.
- 1st CNRS Thematic Pluridisciplinary School on “Cognitive ergonomics and Virtual Reality, Marseille, May 2003.
- 4th European ENOP Postgraduate Summerschool “Information technology, Work and Organisational psychology”, Boulogne Billancourt, July 2002

RESEARCH

Research interest

Cognitive and Cooperative processes in design

End-user needs Integration in design

Virtual Reality for Training and Education

Human-Computer Interaction

Affiliation

Software Ergonomics Laboratory (LEI), University Paris V and Eiffel group (cooperation and cognition in design) at INRIA (French National Research Institute on Computer Science and Control)

Recent publications

Anastassova, M., Burkhardt, J.-M., Mégard, C., & Ehanno, P. (in press). Ergonomics of Augmented Reality systems for Training and Education : a review. *Le Travail Humain*. (in french)

Wolff, M., Burkhardt, J.-M. & De la Garza, C. (in press) Viewpoints' exploratory analysis : a contribution to provide tools to design processes. *Le Travail Humain* (in french).

Anastassova, M., Burkhardt, J.-M., Mégard, C., & Ehanno, P. (2005). Results from a user-centred critical incidents study for guiding future implementation of augmented reality in automotive maintenance. *International Journal of Industrial Ergonomics*, 35 (1), 81-91.

Barcellini, F., Détienne, F., Burkhardt, J.-M. & Sack, W. (2005). A study of on-line discussions in Open-Source Software Community: Reconstructing thematic coherence from citation practices. In 2nd International Conference on Communities and Technologies, Milano, It, 13-16 June.

Paljic, A., Burkhardt, J.-M. & Coquillart, S. (2004). Evaluation of pseudo-haptic feedback for simulating torque : a comparison between isometric and elastic input devices. In proceeding of 12th Symposium on Haptic Interfaces for Virtual Environment and Teleoperator Systems (216-223) March 27-28, Chicago :USA.

Lecuyer, A. , Burkhardt, J.-M. & Etienne, L. (2004). Feeling Bumps and Holes without a Haptic Interface: the Perception of Pseudo-Haptic Textures. In proceeding of the International Conference on Human Factors in Computing - CHI 2004, (239-246), April 24-29, Vienna, Austria.

Burkhardt, J.-M. (2003). Some relationships between Ergonomics and Virtual Reality. *Le Travail Humain*. 66, 65-91.(in french)

Hourdeaux D., Burkhardt, J.-M., Bernard, F., & Fuchs, P. (2002). Relevance of an intelligent tutorial agent for virtual reality training systems. *International Journal of Continuing Engineering Education and Life-long Learning*, 12(1-4), 214-229.

Burkhardt, J.-M., Détienne, F., & Wiedenbeck, S. (2002). Object-oriented program comprehension: effect of expertise, task, and phase. *Empirical Software Engineering Journal*. 7(2), 115-156

Lecuyer, A., Burkhardt, J.-M., Coquillart, S. & Coiffet, P. (2001). Bordering of illusion: an experiment of sensory integration with a pseudo haptic system. In IEEE Virtual Reality Conference (115-122), Yokohama Japan, 13-17 march 2001: IEEE press.

International granted projects

- IST – FP6 2005-2007 Integrated Project Virtualis project
- France-Berkeley Fund 2002-2003 (with UC Santa Cruz, UC Berkeley and Xerox Park, USA).
- EGIDE alliance funding program 2002-2004 (with Keele University, UK)

National granted projects

- Research & Industry Ministry RIAM program 2004-2005 (APLG project)

- CNRS –TCAN program 2002-2004 (MEDIANOTE project)
- CNRS –TCAN program 2004-2005 (AMELIE project)
- CNRS – STIC AS 2003-2004 “Humain Virtuel” (Virtual Human)
- CNRS – STIC AS 2002-2003 “Réalité Virtuelle & Cognition” (Virtual Reality & Cognition)
- Research & Industry ministry RNTL program 2001-2003 (PERF-RV platform)

PROFESSIONAL ACTIVITY:

Contracts with SNCF, AFPA, CEA, Renault

STAFF MOBILITY:

On secondment at Institut National de Recherche en Informatique et Informatique (INRIA) in the EIFFEL research group for two years from 2002 to 2004.