



Accueil CV Recherche Thèses Enseignement Activité-Editoriale Publication Colloques Extra PHOTOS ENGLISH

Khalidoun Zreik: Activités de recherche

Domaines de recherche (en cours)

- HyperUrbain
- Conception des objets communiquant (C2D)
- Computer & Media Arts (CMA)
- Approche structurelle pour l'extraction d'information à partir de documents semi-structurés (approche de text mining)
- Apprentissage interactif

Domaines d'application

- Communication dans les processus de conception
- Conception d'information pervasive
- Conception de systèmes d'information mobile
- Conception de systèmes d'information urbain
- Conception des Systèmes à Bases de Connaissances
- Conception des systèmes interactifs de gestion des crises et des catastrophes
- Conception architecturale assistée par ordinateur
- Dialogue Homme Système
- Gestion numérique de Patrimoine
- Système de numérisation intelligent
- Systèmes interactifs d'aide à la décision
- Mobile et télé-activités
- Multilinguisme (documents Web)

Direction des thèses

- 6 Doctorants en cours : Université Paris 8
- 20 thèses ont été soutenues : Université Paris 8, Université de Caen, Université Mohamed 5 (Rabat, Maroc) and Université Paris 6 (co-directeur)
- 1 HDR

Brevets (2)

- (2003) Système de gestion de crises et de catastrophes
- (2004) Editeur de documents numériques pervasifs

Publications

- Livre (sous la direction) : 7
- Actes de colloques (sous la direction) : 24
- Rédacteur en chef invité (revues internationales) : 6
- Communication dans des revues internationales : 15
- Chapitres : 9
- Communication dans des colloques internationaux : 61
- Communication dans des colloques nationaux : 3
- Communication dans des ateliers internationaux (avec actes) : 6
- Communication dans des ateliers nationaux (avec actes) : 7

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Groupes de travail : niveau international

- Membre du « Technical Committee on Computer Supported Cooperative Work in Design » de l'IEEE SMC . <http://www.ieeesmc.org/technicalcommittees/index.html> (2008/..)
- Membre du conseil d'administration de « Design Foundation » Delft - Pays Bas, (2005/..)
- "Honorary Member" de "Intelligent and Interactive Systems Research Group". University of Paisley, Department of Computing and Information Systems (1999/..)
- Membre du comité européen d'orientation scientifique de EG-SEA-AI : European Group for Structural Engineering Applications of Artificial Intelligence (EPFL, Suisse) (1993/2004).
- Membre du groupe européen Ibouw (Information in Architecture, Building & Construction) { <http://www.bk.tudelft.nl/informatica/toi/research/ibouw/> } (2001/..)

Groupes de travail : niveau national

- ARTIST (A ppropriation par la Recherche des T echnologies de l' IST), INIST – Nancy . <http://artist.inist.fr/> (2005/..)
- RTP 33 . Documents et contenu : création, indexation, navigation. Animateur : Ghislaine Chartron. URL : <http://rtp-doc.enssib.fr>
- Membre de l'AFIHM : Association Francophone d'Interaction Homme Machine (1996/..)

Reasearch Areas & Projects

HyperUrban (HyperUrbain)

The concept of HyperUrban (Khalidoun Zreik, 2008a, 2008b) HyperUrban Conference, HyperUr Blog) represents the City (as Urban Living Space) within its HyperInformational and HyperCommunicational spaces (the new Urban HyperSpaces) and those new HyperSpaces with "City" (where citizens and new citizens could be, act and communicate). As concept it integrates HyperSpaces Design (mainly Ergonomic Urban Information Design, Ergonomic Urban Commun Design) and City Design (mainly Urban Planning).

- Zreik, Khakdoun, 2010 (edited by). "Nouvelles cartographies, nouvelles villes : HyperUrbain 2), ISBN 978-2-909285-65-8
- Zreik, Khalidoun, 2008a (edited by). "HyperUrbain", ISBN 978-2-909285-43-X- 156 p. Published by Europaia, Paris - France.
- Zreik, Khalidoun, 2008b. "Hyperurban: Information and communication driven desi in ECPPM 2008 "eWork and eBusiness in Architecture, Engineering and Construct Edited by Alain Zarli & Raimar Scherer - Published by CRC Press Taylor & Francis Group. ISBN 978-0-415-48245- 5. PP 263- 268

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Communicative Document Design (C2D)

Today most of Document ought to be HyperDocument (Interactive Multimedia & Ubiquitous Doc C2D observes that Document is a piece of information and a support of communication. Thus Designing an HyperDocument should consider ergonomic approaches for: information design, hyperinformation design and ergonomic communicative object design (i.e. behaviour, content, fc function and structure).

- J. Ducloy et K. Zreik. "L'espace cyberdimensionnel de l'IST en 5 questions". In Le document numérique dans le monde de la science et de la recherche. Actes du di colloque international sur le document électronique (CIDE.10). Ed. Europaia, Paris,
- K. Zreik, R. Beheshti, R. Stouffs, B. Tunçer and S. Özşaryıldız. The building and construction eDocuments in International Journal of Design Sciences and Techno Europaia, Paris, Volume 10 (n°1) 2004. ISSN 1400-6529
- J. Vivier K. Zreik. "Télé-communication et référencement". In Proceedings of the VI International Congress of the International Society of Applied Psycholinguistics (I: 2000). Ed. Drevillon et al. Europaia, Paris, 2004

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Computer and Media Arts

Nowadays, we witness an enlargement of Computer & Media Arts (CMA) boundaries mainly led unusual development. Distance between Art and Science has narrowed to the point that CMA lo be quite an independent and autonomous field starving to reach its maturity. From this perspecti CAM cannot evolve separately from the IT development strategy. Today, along with digital conte production, which is in some measure produced accordingly to collective intelligence schemes, \ observe emerging forms of CMA that strive to develop new ways to interact with digital content, artefacts that repurpose digital content and new paradigms that aim to make sense of CMA.

- K. Zreik, E. Reyes-Garcia, 2008. "A social hyperdimension of Media Art" in Internat Journal of Design Sciences & Technology. Vol15 N°1. Published by Europaia Produ ISSN 1630-7267. <http://europaia.org/IJDST/index.html>
- K. Zreik, E. Reys Garcia (Editors). « Emerging forms of computer art: making the r sense” . Proceedings of the second Computer Art Congress. Toluca & Mexico City Mexique. 26-28 March 2008. Ed. Europaia. ISBN 978-2-909285-45-6
- Computer Art Journal, Electronic Journal. Co-Editors in Chief: B. Caillaud, K. Zreik (2004/..) <http://europaia.org/CA>

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Structure Driven Information Extraction Approach

In the problematic of Information Design we have been rapidly interested in the important multilir phenomenon and focused our approach on the importance of information structure. Multilingual Document (MWD) processing has become one of the major interests of research and developm the area of information retrieval. We have developed several approaches adapted to Multilingua Document Mining, and experimented them on Arabic, Chinese and Vietnamese Languages.

- A. AL Hajjar, M. Hajjar, K. Zreik. « Classification of Arabic Information Extraction methods”. 2nd International Conference on Arabic Language Resources and Tools (Egypt), 22 - 23 April 2009

- Membre du RESOC , réseau ouest en sciences cognitives (1999/..)
- Membre du GDR - PRC I3 : Information - Interaction - Intelligence (1997/..).

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The Paragraphe research laboratory

Paragraphe, is an interdisciplinary research laboratory attached to the doctoral School (N°224) Cognition, Language and Interaction (CLI) of the University of Paris 8, Vincennes - Saint-Denis. The laboratory is composed of four teams and a complementary group of research:

- "Cybermédia, Interactions, Transdisciplinarité et Ubiquité" (CITU - Paragraphe)
- "Ecritures et Hypermédiations Numériques" (EHN)
- "Compréhension, Raisonnement et Acquisition de Connaissances" (CRAC)
- "Conception, Création, Compétences, Usages" (C3U)

They meet indeed in a common interest for the whole of the implications of information technologies, that it is through technical concepts like the search engines, the hypertexts, the hypermedias, the data-processing tools, the applications which result from it and the human activities that they solicit or through concepts concerned with the human and social sciences (ergonomics, cognitive science, sociology, philosophy...) like the social stakes of these technologies, their conceptualization or fundamental problems on the nature of information and knowledge and the more general questions of the insertion of the Information and Communication Technologies (ICT) in the loop of the human activity

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- M. Sanan, M. Rammal, K. Zreik , 2008. "Arabic supervised learning method using N in Interactive Technology and Smart Education - Vol. 5 N°. 3, 2008 Emerald Group Publishing Limited, ISSN 1741-5659; pp 157-169
- J. Yao, K. Zreik « La question de la structure dans la catégorisation des document hétérogènes ». Colloque SITA'08 – INPT, Rabat, Maroc 5-7 mai 2008
- M. Sanan, M. Ramal, K. Zreik. « Arabic documents classification using N-gram". in ICHSL'6, 6th International Conference on Human System Learning. LAAS, CNRS - Toulouse, France 14-16 mai, 2008. Europa Pub.
- M. Sanan, M. Ramal, K. Zreik. « Arabic "KeyWord Matching" search engine limitation In IEEE-ICTTA : International IEEE Conference on Information & Communication Technologies. Damascus- Syria, April 7-11, 2008. Editions IEEE
- D.T. Nguyen, K. Zreik. « Multilingual Web Documents: the system Hyperling » ICCI 2006: 2d International IEEE Conference on Information & Communication Technology Damascus- Syria, April 24 - 28, 2006. Editions IEEE
- K. Zreik, D. Nguyen. « Catégorisation de documents multilingue : le système Hyperling In CIDE.8. 25-28 Mai 2005, Mission Culturelle Française, Beyrouth-Liban – Ed. Eurc Paris.

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Interactive Learning Support Design

The Information Society is burgeoning and new technology is shifting educational, learning and paradigms. Virtual Universities, Cyber-Classrooms, e-Learning, Wireless Based Learning, Human Robots, Data Mining, Text Mining, Web Semantic, etc. may be cryptic catch phrases now but will be within the main learning and teaching norm in a very near future. Mining tools have become the popular Machine Learning issues. Our project is based on the fact that Machine Learning, Human (mainly Human Robot Interaction) and e-Learning system have proved the necessity of integrative level interactive approaches. This means most validated information has to be retrieved, extracted and transferred within a Human Computer Collaborative approach in which both Human and Machine from each other. In every validated information production process roles between users and computers are continually exchanged. Sometimes decisions are owned and controlled by the machine and sometimes by users. In summary, Interactive Learning tools have to adopt a user driven design approach. They should learn from and about their users. Both E-learning systems and Humanoid Robots must embed some machine learning tools. Moreover, an efficient Interactive Learning Support (during information construction or validation) has to consider very powerful pedagogical and sensitive approaches in order to be able to learn from their users. From this perspective we can observe that distances between Interactive Machine Learning, Humanoid Robot and e-Learning have become and closer.

- S. Tazi, K. Zreik (edited by) Common Innovation in e-learning, Machine Learning and Humanoid. Proceedings of the 6th International Conferences on Human System Learning: ICHSL.6 Actes du 6ème International Conference on Human System Learning. Ed. Europa, Paris, 2008, ISBN 2-909285-46-4
- K. Zreik, M. Ramadan, M. El Adnani, M. Bellafkih (edited by). Human System Learning Who is in control? Actes du 5ème International Conference on Human System Learning (ICHSL.5). Ed. Europa, Paris, Novembre 2005 - ISBN 2-909285-33-2, (398 pages)
- K. Zreik (edited by). Learning's WWW. Actes de CAPS'3. Éditions Europa (Paris), 2 pages, Décembre 2000. ISBN 2-909285-12-X
- K. Zreik (edited by). Apprentissage Homme-Machine. Éditions Europa Production: (Paris), 180 pages, Juillet 1998. ISBN 2-909285-11-1

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