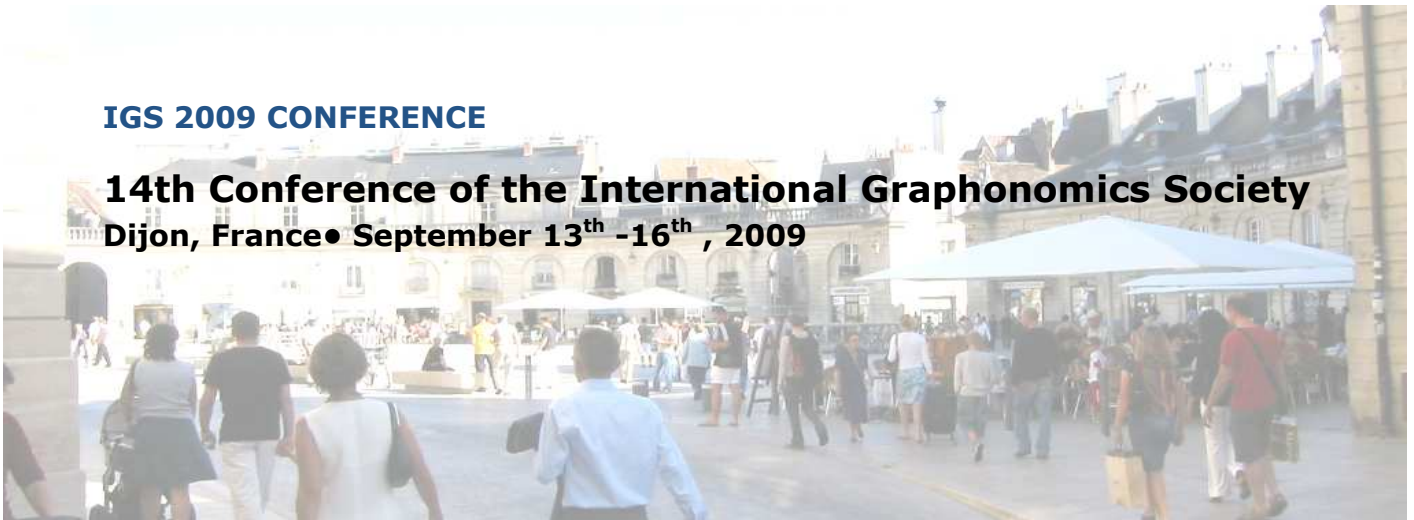


**IGS 2009 CONFERENCE**

**14th Conference of the International Graphonomics Society  
Dijon, France • September 13<sup>th</sup> -16<sup>th</sup> , 2009**



## **Scientific Program**

**Pôle AAFE, Esplanade Erasme,  
Campus of the University of Bourgogne.**

### **Sponsors:**



Avec un remerciement aux établissements **Les Anis de Flavigny**

## **Sunday 13 September**

Registration and Welcome party : 18.00/20.30

## **Monday 14 September**

8.30 Opening	Welcome from the President of the Society <i>A. Marcelli</i> Welcome from the Conference organizers <i>A. Vinter &amp; J-L. Velay</i>
9.00 Invited talk Chair: Angelo Marcelli	A computational approach to forensic sciences <i>K. Franke</i>
10.00 Coffee break & Poster session Chair: Annie Vinter	10.15/ A combining method of non-linear normalization to support reading damaged character pattern on historical documents <i>A. Kitadai, M. Nakagawa, H. Baba &amp; A. Watanabe</i>
10.30 Signature analysis and authentication  Chair: Venu Govindaraju	10.30/Analysis of Signature Complexity <i>L.C. Alewijnse, E. Van Den Heuvel, R.D. Stoel &amp; K. Franke</i> 10.50/ Towards a protocol for forensic document examination based on handwriting generation <i>S. Frontini, G. Giordano, &amp; A. Marcelli</i> 11.10/ Towards an inferred data accuracy assessment of forensic examination methodologies for signatures <i>R. Guest, M. Fairhurst &amp; A. Linnell</i> 11.30/ Evaluation of novel features and different models for online signature verification in a real-world scenario <i>M. Liwicki</i> 11.50/ Pen pressure as a discriminatory feature between genuine and forged signatures <i>L. Mohammed, B. Found, M. Caligiuri &amp; D. Rogers</i>
14.00 Parkinson's Disease, Movement Disorders and Handwriting analysis  Chair: Jean Luc Velay	14.00/Complex bimanual coordination is performed accurately using verbal instructions in Parkinson's Disease patients <i>A.W. Van Gemmert, S. Ringenbach, H. Shill &amp; G. Stelmach</i> 14.20/ Assessments of fine motor control in Parkinson's Disease patients with the Neuroskill™ analysis of handwriting dynamics <i>R. Shrairman &amp; A. Landau</i> 14.40/ Parkinson's Disease differentially affects adaptation to gradual as compared to sudden visuomotor distortions <i>A.Venkatakrishnan, J. Banquet, Y. Burnod &amp; J. Contreras-Vidal</i> 15.00/ Handwriting performance measures of "real life" tasks: A comparison between the performance of patients with Parkinson's Disease and controls <i>S. Rosenblum, M. Samuel, S. Zlotnik &amp; I. Schlesinger</i> 15.20/ Movement analysis for stroke susceptibility assessment <i>C. O'Reilly, R. Plamondon, B. Clément, P. Mathieu &amp; L-H. Lebrun</i> 15.40/ Handwriting in patients with Parkinson's Disease: effect of L-Dopa and stimulation of the sub-thalamic nucleus on motor anticipation <i>C. Bidet-Ildeï, S. Kandel, P. Pollack &amp; J-P. Orliaguet</i> 16.00/ Designing an Ensemble Classifier for classifying parkinsonian handwriting <i>S. Chandra, D. Subramanian, V. Chakravarthy, A. Srinivasan, J. Kumar</i>
16.20 Coffee break & Poster session  Chair: Jean Luc Velay	16.35/ Automatic analysis of on-line sketch based on use of local descriptors <i>N. Renau-Ferrer &amp; C. Rémi</i> 16.45/ Writer identification of Arabic documents by multi-scale modelling <i>Z. Shi, S. Setlur &amp; V. Govindaraju</i>
17.00 Invited talk  Chair: José Contreras-Vidal	High Frequency Stimulation of the Brain: Current Results and Future Applications <i>A.L. Benabid</i>

18.00-19.30: Wine degustation (same building)

## Tuesday 15 September

8.30 Invited talk Chair: Annie Vinter	Language and Writing Development <i>V. Connelly</i>
9.30 Coffee break &  Poster session  Chair: Jean Luc Velay	9.40/ Temporal aspects of Handwriting skill development: A computerized study utilizing the CompPET <i>L. Gafni &amp; S. Rosenblum</i> 9.45/ Gender and stereotype effect on children's handwriting speed <i>K. Semoglou, E. Griva &amp; K. Klapadora</i> 9.50/ Impact of children's handwriting skill on execution periods and text quality <i>T. Olive, R.A. Alves, S.L. Castro &amp; M. Branco</i>
10.00 Language and Handwriting production  Chair: Vince Connelly	10.00/For a psycholinguistic approach of handwriting production <i>S. Kandel</i> 10.20/ Syllable frequency effects in Spanish handwriting production <i>O. Afonso &amp; C. Alvarez</i> 10.40/ Handwriting variability in children writing letters: a study in dyslexics, dysgraphics and proficient handwriters <i>J-L. Velay, F. Henin, C. Moulin, T. Thomas, I. Devos-Charles &amp; M. Habib</i>
11.00 Forensics and Handwriting variability  Chair: Doug Rogers	11.00/Bayesian evaluation of the shape of handwritten characters "a" <i>R. Marquis, S. Bozza, M. Schmittbuhl &amp; F. Taroni</i> 11.20/ Disguising writers identification: an experimental study <i>C. De Stefano, A. Marcelli &amp; M. Rendina</i> 11.40/ Handwriting variability in movement disorder patients and effects of fatigue <i>H. Harralson, H-L. Teulings &amp; B. Farley</i> 12.00/ Comparing Handwriting variability under four postural conditions <i>E. Sciacca, M-B. Langlois-Peter, J-C. Gilhodes, P. Margot &amp; J-L. Velay</i>
14.00 Development: Handwriting and drawing  Chair: Arend Van Gemmert	14.00/Haptics in handwriting teaching <i>F. Bara, A. Hillairet de Boisferon &amp; E. Gentaz</i> 14.20/ Early development of writing skills: A longitudinal study with preschool writers <i>O. Soler &amp; S. Kandel</i> 14.40/ The links between motor development and the development of handwriting among eight-to-eleven-year-olds <i>I. Sage, P. Zesiger &amp; C. Garitte</i> 15.00/ A comparison of three methods of learning to write a new letterform <i>A. Overvelde &amp; W. Hulstijn</i> 15.20/ Developmental and handedness effects on tapping and drawing performance in 3- to-6 year olds <i>H. Van Mier</i>
15.40 Coffee break &  Poster session  Chair: Annie Vinter	15.50/ The development of gender and task related differences in fine motor tasks <i>A. Ypslanti, A. Zikouli, K. Semoglou &amp; E. Kadrefi</i> 15.55/ Do 5-year-old children and adults spontaneously draw "golden rectangles and triangles"? <i>E. Gentaz &amp; V. Izard</i> 16.00/ Handwriting difficulties in Tunisian children: a descriptive study <i>S. Bouamama, N. Stucchi, P. Zesiger &amp; I. Bouzaouche</i>
16.10 Handwriting recognition and signature verification  Chair: Réjean Plamondon	16.10/Offline cursive character recognition: a state-of-the art comparison <i>J. Thornton, J. Faichney, M. Blumenstein V. Nguyen &amp; T. Hine</i> 16.30/ Modeling relative positioning of handwritten patterns <i>A. Delaye, S. Mace &amp; E. Anquetil</i> 16.50/ A Handwritten Pashto Database with multi-aspects for handwriting recognition <i>M. Shah, C. Lei He, N. Nobile &amp; C. Y. Suen</i> 17.10/ Using Bayesian networks for combining classifiers: a new evolutionary learning algorithm <i>C. De Stefano, F. Fontanella, A. Marcelli &amp; A. Scotto di Freca</i> 17.30/ Model approach to DTW signature verification using error signals <i>J. Putz-Leszczynska &amp; A. Pacut</i> 17.50/ Text identification from mixed documents using weighted features <i>X. Peng, S. Setlur, V. Govindaraju &amp; R. Sitaram</i>

19.00: Bus (avenue Foch, in front of the Kyriad/le Jura Hotels, a few meters from the station).  
(return at around 23.30 in front of the Kyriad/Le Jura Hotels)

**Wednesday 16 September**

9.00 Invited talk Chair: Jean Luc Velay	Brain and Handwriting <i>J.F. Demonet</i>
10.00 Coffee break & Poster session Chair: Annie Vinter	10.10/ Visuo-motor tracking in a pursuit loop-drawing task <i>J. Yank &amp; A. Van Gemmert</i>
10.30 Drawing and handwriting: Movement disorders Chair: Bryan Found	10.20/ The role of basal ganglia in performing simple reaching movements: a computational model <i>M. Mohamed, V. Chakravarthy, D. Subramanian &amp; B. Ravindran</i>
	10.30/A computer learning model using hand-drawn images for the assessment of visuo-spatial neglect <i>Y. Liang, M. Fairhurst, R. Guest &amp; J. Potter</i>
	10.50/ Pen grip force in writer's cramp <i>J. Hermsdörfer, C. Marquardt, A. Schneider, W. Fürholzer &amp; B. Baur</i>
	11.10/ The intermittency of Braille reading finger velocities <i>B. Hughes, A. Van Gemmert &amp; G. Stelmach</i>
11.30 Handwriting: Perception and production Chair: Elisa Van Den Heuvel	11.30/Neural correlates of the visual perception of handwritten letters <i>M. Longcamp, Y. Hlushchuk &amp; R. Hari</i>
	11.50/ Effects of orientation and eccentricity on graphomotor coordination dynamics <i>J. Dann, S. Athenes &amp; P.G. Zanone</i>
	12.10/ Does graphic shapes perception mirror handwriting patterns production? <i>Y. Wamain, V. Kostrubiec, M. Longcamp, J. Tallet &amp; P.G. Zanone</i>
14.00 Neuroscience Chair: Arend Van Gemmert	14.00/Intentional control and biomechanical exploitation in preparatory handwriting <i>I. Bosga-Stork, J. Bosga &amp; R.G.J. Meulenbroek</i>
	14.20/ Some relationships between eye movements and handwriting <i>J. Sebastian, D.K. Rogers &amp; J.C. Sita</i>
	14.40/ Circadian Rhythm in Handwriting: Comparison of German and Dutch handwriting kinematics in two 40 h-sleep deprivation protocols <i>I. Jasper, M. Gordijn, A. Häußler, C. Marquardt &amp; J. Hermsdörfer</i>
	15.00/ A comparison of some analytical models describing the velocity profile of rapid movements <i>M. Djioua &amp; R. Plamondon</i>
15.20 Historical Document processing Chair: Masaki Nakagawa	15.20/Contour based features for the classification of ancient manuscripts <i>I. Siddiqi, F. Cloppet &amp; N. Vincent</i>
	15.40/ Copying and composition in scribal culture <i>A. Conti</i>
16.00 Coffee break & Poster session Chair: Jean Luc Velay	16.10/ Requirements for intelligent pen based annotation systems: an exemplary study with semantic eInk <i>M. Liwicki &amp; A. Dengel</i>
	16.20/ Multi-script baseline detection using perceptive vision <i>A. Lemaitre, J. Camillerapp &amp; B. Coüasnon</i>
16.30 Identification and Generation Chair: Angelo Marcelli	16.30/Writer identification for multi-script multi-writer manuscript <i>U. Garain &amp; T. Paquet</i>
	16.50/ A complete method of personal handwriting synthesis <i>S. Chowdhury, S. Das, D. Roy, U. Sarkar &amp; B. Chaudhuri</i>
17.10 Closure	Closure of the Conference