

IWFHR 10 - Program Schedule - Detailed

SESSION OS: Opening Session

Date: 24 October 2006

Time: 08:20 - 09:00

Location: Fédrun

Chair: Guy LORETTE, IRISA

SESSION S1: Datasets, Annotation and Generation

Date: 24 October 2006

Time: 09:00 - 10:40

Location: Fédrun

Chair: Bidyut Baran CHAUDHURI, Indian Statistical Institute

09:00 [1029] - STANDARD DATABASES FOR RECOGNITION OF HANDWRITTEN DIGITS, NUMERICAL STRINGS, LEGAL AMOUNTS, LETTERS AND DATES IN FARSI LANGUAGE
Farshid Solimanpour, Javad Sadri, Ching Y. Suen, *CENPARMI, Concordia University, Canada*

09:20 [1126] - MODEL-BASED ANNOTATION OF ONLINE HANDWRITTEN DATASETS
Anand Kumar, A. Balasubramanian, Anoop Namboodiri, C.V. Jawahar, *Intl. Inst. of Information Technology, India*

09:40 [1130] - MAPPING TRANSCRIPTS TO HANDWRITTEN TEXT
Chen Huang, Sargur Srihari, *CEDAR, Department of Computer Science and Engineering, United States*

10:00 [1123] - SYNTHESIS OF ONLINE HANDWRITING IN INDIAN LANGUAGES
C.V. Jawahar, A. Balasubramanian, *Intl. Inst. of Information Technology, India*

10:20 [1079] - THE INFLUENCE OF IMAGE COMPLEXITY ON HANDWRITING RECOGNITION
Amalia Rusu, Venu Govindaraju, *CEDAR, University at Buffalo, The State University of New York, United States*

SESSION S2: Preprocessing techniques

Date: 24 October 2006

Time: 11:00 - 12:20

Location: Fédrun

Chair: Stefan JAEGER, University of Maryland

11:00 [1093] - A NEW ALGORITHM FOR DETECTING TEXT LINE IN HANDWRITTEN DOCUMENTS
Yi Li, *Lab for Language and Media Processing, United States*; Yefeng Zheng, *Siemens Corporate Research, United States*; David Doermann, Stefan Jaeger, *Lab for Language and Media Processing, United States*

11:20 [1033] - MODELING SEGMENTATION CUTS USING SUPPORT VECTOR MACHINES
Eduardo Vellasques, Luiz Oliveira, *Pontifícia Universidade Católica do Paraná, Brazil*; Robert Sabourin, *École de Technologie Supérieure, Canada*; Alceu Britto, Alessandro Koerich, *Pontifícia Universidade Católica do Paraná, Brazil*

11:40 [1134] - ERASURE EXTRACTION IN ON-LINE CAPTURED PAPER FORMS
Alain Wiat, Thierry Paquet, Laurent Heutte, *PSI-LITIS, France*

12:00 [1111] - SEGMENTATION-BASED AND SEGMENTATION-FREE METHODS FOR SPOTTING HANDWRITTEN ARABIC WORDS
Gregory Ball, Sargur Srihari, Harish Srinivasan, *Center of Excellence for Document Analysis and Recognition (CEDAR), United States*

SESSION PT1: Poster Teasers

Date: 24 October 2006

Time: 12:20 - 13:00

Location: Fédrun

Chair: Thierry PAQUET, University of Rouen

SESSION P1: Character and Word Recognition

Date: 24 October 2006

Time: 14:20 - 15:00

Location: Bréca

Chair: Thierry PAQUET, University of Rouen

[1038] - HIGH PERFORMANCE CONVOLUTIONAL NEURAL NETWORKS FOR DOCUMENT PROCESSING

Kumar Chellapilla, Sidd Puri, Patrice Simard, *Microsoft Research, United States*

[1042] - SEMI-CONTINUOUS HMMS WITH EXPLICIT STATE DURATION APPLIED TO ARABIC HANDWRITTEN WORD RECOGNITION

Abdallah Benouareth, *Laboratoire de Recherche en Informatique, Algeria*; Abdelatif Ennaji, *Laboratoire PSI, UFR des Sciences, Rouen, France*; Mokhtar Sellami, *Laboratoire de Recherche en Informatique, Algeria*

[1045] - AN AGENT-BASED AND CONTEXT-ORIENTED APPROACH TO SYMBOL RECOGNITION IN DIAGRAMMATIC DRAWINGS

Giovanni Casella, Vincenzo Deufemia, *Università di Salerno, Italy*; Viviana Mascardi, *Università di Genova, Italy*

[1052] - COMPARISON OF TWO DIFFERENT FEATURE SETS FOR OFFLINE RECOGNITION OF HANDWRITTEN ARABIC WORDS

Mario Pechwitz, Volker Maergner, *TU-Braunschweig - IfN, Germany*; Haikal El Abed, *TU Braunschweig - IfN, Germany*

[1054] - IMPROVING THE COURTESY AMOUNT RECOGNITION ACCURACY RATE THROUGH DELIMITERS IDENTIFICATION

Cleber Zanchettin, *AiLeader Technologies, Brazil*; George Cavalcanti, *Federal University of Pernambuco, Brazil*; Eduardo Silva, Byron Bezerra, Rodrigo Dória, Juliano Rebelo, *AiLeader Technologies, Brazil*

[1061] - EFFICIENT OFF-LINE CURSIVE HANDWRITING WORD RECOGNITION

Basilios Gatos, *National Center for Scientific Research "Demokritos", Greece*; Ioannis Pratikakis, *National Center for Scientific Research "Demokritos", Greece*; Anastasios Kesidis, Stavros Perantonis, *National Center for Scientific Research "Demokritos", Greece*

[1066] - A NOVEL SCHEME FOR IMPLEMENTATION OF THE SCANNING NTUPLE CLASSIFIER IN A CONSTRAINED ENVIRONMENT

Sanaul Hoque, Michael Fairhurst, *University of Kent, United Kingdom*

[1083] - A COMPACT ON-LINE AND OFF-LINE COMBINED RECOGNIZER

Hideto Oda, *Tokyo University of Agriculture and Technology, Japan*; Bilan Zhu, *Tokyo University of Agriculture and Technology, China*; Junko Tokuno, Motoki Onuma, Akihito Kitadai, Masaki Nakagawa, *Tokyo University of Agriculture and Technology, Japan*

[1097] - ON-LINE HANDWRITTEN CHARACTER RECOGNITION SELECTIVELY EMPLOYING HIERARCHICAL SPATIAL RELATIONSHIPS AMONG SUBPATTERNS

Junko Tokuno, *Tokyo University of Agriculture and Technology, Japan*; Mitsuru Nakai, *Toyama Prefectural University, Japan*; Hiroshi Shimodaira, *The University of Edinburgh, Japan*; Shigeki Sagayama, *The University of Tokyo, Japan*; Masaki Nakagawa, *Tokyo University of Agriculture and Technology, Japan*

[1109] - A FAST LEARNING STRATEGY USING PATTERN SELECTION FOR FEEDFORWARD NEURAL NETWORKS

Szilard Vajda, Hubert Cecotti, *Henri Poincaré University, Loria Research Center, France*;
Yves Rangoni, Abdel Belaid, *Nancy 2 University, Loria Research Center, France*

[1114] - FUSING HIGH- AND LOW-LEVEL FEATURES FOR HANDWRITTEN WORD RECOGNITION

Alessandro Koerich, Alceu Britto, Luiz Oliveira, *PUCPR, Brazil*; Robert Sabourin, *ETS, Canada*

[1122] - PROTOTYPE SELECTION METHODS FOR ON-LINE HWR

Jakob Sternby, *Lund University, Sweden*

[1124] - A TWO-TIER APPROACH FOR ARABIC OFFLINE HANDWRITING RECOGNITION

Ahmad Abdulkader, *Microsoft Research, United States*

[1125] - AN ENSEMBLE-BASED PCA MODEL FOR RECOGNITION OF HANDWRITTEN NUMERALS

Samuel Chindaro, Konstantinos Sirlantzis, Michael Fairhurst, *University of Kent, United Kingdom*

[1133] - FROM INFORMATIONAL CONFIDENCE TO INFORMATIONAL INTELLIGENCE

Stefan Jaeger, *University of Maryland, United States*

[1006] - COMBINATION OF MULTIPLE HANDWRITTEN TEXT LINE RECOGNITION SYSTEMS WITH A RECURSIVE APPROACH

Roman Bertolami, Beat Halter, Horst Bunke, *Universität Bern, Switzerland*

[1007] - ZONING AND METACLASSES IMPROVING THE CHARACTER RECOGNITION

Cinthia Freitas, Luiz Oliveira, Edson Justino, *PUCPR, Brazil*; Simone Aires, *UTFPR-PG, Brazil*

[1011] - ONLINE RECOGNITION OF UNCONSTRAINED HANDWRITTEN JAPANESE TEXT USING STATISTICAL INFORMATION

Katsumi Marukawa, *Central Research Laboratory, Hitachi Ltd., Japan*; Takeshi Nagasaki, *Central Research Laboratory, Hitachi Ltd, Japan*; Kazuyoshi Kikuta, *Systems Division, Hitachi Ltd., Japan*

[1013] - PERSONALIZATION OF AN ONLINE HANDWRITING RECOGNITION SYSTEM

Patrick Haluptzok, Michael Revow, Ahmad Abdulkader, *Microsoft, United States*

[1023] - ONLINE ARABIC HANDWRITING RECOGNITION USING HIDDEN MARKOV MODELS

Fadi Biadisy, *Columbia University, United States*; Jihad El-Sana, *Ben-Gurion University, Israel*; Nizar Habash, *Columbia University, United States*

SESSION S3: Classification Techniques

Date: 24 October 2006

Time: 15:00 - 16:20

Location: Fédrun

Chair: Robert SABOURIN, Ecole de technologie supérieure

15:00 [1028] - "ONE AGAINST ONE" OR "ONE AGAINST ALL": WHICH ONE IS BETTER FOR HANDWRITING RECOGNITION WITH SVMs?

Jonathan Milgram, Mohamed Cheriet, Robert Sabourin, *École de Technologie Supérieure, Canada*

15:20 [1063] - GENERALIZATION CAPACITY OF HANDWRITTEN OUTLIER SYMBOLS REJECTION WITH NEURAL NETWORK

Harold Mouchère, Eric Anquetil, *Irisa - INSA de Rennes, France*

15:40 [1099] - ACTIVE-DTW : A GENERATIVE CLASSIFIER THAT COMBINES ELASTIC MATCHING WITH ACTIVE SHAPE MODELING FOR ONLINE HANDWRITING RECOGNITION

Muralikrishna Sridhar, *HP Labs India, India*; Dinesh Mandalapu, Mehul Patil, *HP Labs, India*

16:00 [1053] - CONDITIONAL RANDOM FIELDS FOR ONLINE HANDWRITING RECOGNITION

Trinh Minh Tri Do, Thierry Artières, *Pierre and Marie Curie University, France*

SESSION S4: Structural Recognition

Date: 24 October 2006

Time: 16:40 - 18:00

Location: Fédrun

Chair: Masaki NAKAGAWA, University of Agriculture and Technology of Tokyo

16:40 [1009] - GEOMETRICAL-STATISTICAL MODELING OF CHARACTER STRUCTURES FOR NATURAL STROKE EXTRACTION AND MATCHING

Xiabi Liu, Yunde Jia, Ming Tan, *Beijing Institute of Technology, China*

17:00 [1110] - MODELING OF PEN-COORDINATE INFORMATION IN SCPR-BASED HMM FOR ON-LINE RECOGNITION OF HANDWRITTEN JAPANESE CHARACTERS

Junko Tokuno, *Tokyo University of Agriculture and Technology, Japan*; Yiping Yang, *Tokyo University of Agriculture and Technology, China*; Gleidson Pegoretti Da Silva, *Tokyo University of Agriculture and Tech, Brazil*; Akihito Kitadai, Masaki Nakagawa, *Tokyo University of Agriculture and Technology, Japan*

17:20 [1003] - ONLINE JAPANESE CHARACTER RECOGNITION USING TRAJECTORY-BASED NORMALIZATION AND DIRECTION FEATURE EXTRACTION

Cheng-Lin Liu, Xiang-Dong Zhou, *Institute of Automation, Chinese Academy of Sciences, China*

17:40 [1019] - TWO-STAGE RECOGNITION OF RAW ACCELERATION SIGNALS FOR 3-D GESTURE-UNDERSTANDING CELL PHONES

Sung-Jung Cho, *SAIT, South Korea*; Won-Chul Bang, Eunseok Choi, Jing Yang, Junil Sohn, Dong Yoon Kim, Young-Bum Lee, Sangryong Kim, *Samsung, Korea*

SESSION IS: Invited Session

Date: 24 October 2006

Time: 18:00 - 19:00

Location: Fédrun

Chair: Michel GILLOUX, SELISA/LAD Services

18:00 [1136] - RIMES EVALUATION CAMPAIGN FOR HANDWRITTEN MAIL PROCESSING

Emmanuel Augustin, *A2IA, France*; Matthieu Carré, *INT/ARTEMIS, France*; Emmanuèle Grosicki, *CEP Arcueil, France*; Jean-Marie Brodin, *A2IA, France*; Edouard Geoffrois, *CEP Arcueil, France*; Françoise Prêteux, *INT/ARTEMIS, France*

18:20 [1140] - W3C INKML : STATUS UPDATE

W3C InkML Working Group, *W3C*,

18:40 [1138] - IWFHR 2006 ONLINE TAMIL HANDWRITTEN CHARACTER RECOGNITION COMPETITION

Sriganesh Madhvanath, *Hewlett-Packard Labs, India*; Simon M. Lucas, *University of Essex, United Kingdom*

SESSION KS1: Keynote Speech 1

Date: 25 October 2006

Time: 08:20 - 09:20

Location: Fédrun

Chair: Gerhard RIGOLL, Munich University of Technology

08:20 [1137] - SOME RECENT ADVANCES IN MACHINE LEARNING

Olivier Bousquet, *Pertinence, France*

SESSION S5: Mathematical Expression Recognition and Spatial Relationship Modeling

Date: 25 October 2006

Time: 09:20 - 10:40

Location: Fédrun

Chair: Horst BUNKE, University of Bern

09:20 [1095] - ON-LINE RECOGNITION OF HANDWRITTEN MATHEMATICAL EXPRESSIONS BASED ON STROKE-BASED STOCHASTIC CONTEXT-FREE GRAMMAR

Ryo Yamamoto, Shinji Sako, Takuya Nishimoto, Shigeki Sagayama, *The University of Tokyo, Japan*

09:40 [1118] - A PURELY ONLINE APPROACH TO MATHEMATICAL EXPRESSION RECOGNITION
Ray Genoe, John A. Fitzgerald, Tahar Kechadi, *University College Dublin, Ireland*

10:00 [1040] - A NEW RADICAL BASED APPROACH TO OFFLINE HANDWRITTEN EAST-ASIAN
CHARACTER RECOGNITION
Kumar Chellapilla, Patrice Simard, *Microsoft Research, United States*

10:20 [1117] - MODELING ON-LINE HANDWRITING USING PAIRWISE RELATIONAL FEATURES
Rudy Sicard, *France Télécom RD, France*; Thierry Artières, *UPMC - LIP6, France*; Eric Petit,
France Télécom RD, France

SESSION S6: Writer Identification and Verification

Date: 25 October 2006

Time: 11:00 - 12:20

Location: Fédrun

Chair: Laurent HEUTTE, University of Rouen

11:00 [1025] - OFF-LINE WRITER VERIFICATION: A COMPARISON OF A HIDDEN MARKOV MODEL
(HMM) AND A GAUSSIAN MIXTURE MODEL (GMM) BASED SYSTEM
Andreas Schlapbach, Horst Bunke, *University of Berne, Switzerland*

11:20 [1046] - COMBINING MULTIPLE FEATURES FOR TEXT-INDEPENDENT WRITER
IDENTIFICATION AND VERIFICATION
Marius Bulacu, Lambert Schomaker, *AI Institute, University of Groningen, Netherlands*

11:40 [1115] - TEXT INDEPENDENT WRITER IDENTIFICATION FROM ONLINE HANDWRITING
Anoop Namboodiri, Sachin Gupta, *Intl. Inst. of Information Technology, India*

12:00 [1132] - DISCRIMINATIVE WRITER CLASSIFICATION
Martin Szummer, Christopher M. Bishop, *Microsoft Research, United Kingdom*

SESSION PT2: Poster Teasers

Date: 25 October 2006

Time: 12:20 - 13:00

Location: Fédrun

Chair: Cheng-Lin LIU, Chinese Academy of Sciences

SESSION P2: Handwriting Modeling, Pen-based Applications and Datasets

Date: 25 October 2006

Time: 13:00 - 14:00

Location: Bréca

Chair: Cheng-Lin LIU, Chinese Academy of Sciences

[1031] - A HANDWRITTEN CHINESE ADDRESS RECOGNITION METHOD USING RECURSIVE
HOLISTIC WORD MATCHING AND EDIT DISTANCE BASED VERIFICATION STRATEGIES
Kaizhu Huang, *Fujitsu R&D Center, China*; Yoshinobu Hotta, Satoshi Naoi, *Fujitsu
Laboratories Ltd, Japan*

[1044] - CONTRIBUTION TO THE AUTOMATIC RECOGNITION OF BUSINESS DOCUMENTS
Djamel Gaceb, Frank Lebourgeois, Véronique Eglin, Hubert Emptoz, *LIRIS, France*

[1048] - CLASSIFICATION SYSTEM OPTIMIZATION WITH MULTI-OBJECTIVE GENETIC
ALGORITHMS
Paulo Vinicius Wolski Radtke, Robert Sabourin, Tony Wong, *École de Technologie
Supérieure, Canada*

[1058] - HANDWRITTEN GESTURE RECOGNITION FOR GESTURE KEYBOARD
Deepu Vijayasenan, Sriganesh Madhvanath, *Hewlett-Packard Laboratories, Bangalore,
India*; R Balaji, *Purdue University, USA*; Jayasree Prabhakaran, *Hewlett-Packard
Laboratories, Bangalore, India*

- [1059] - AUTOMATIC TRAJECTORY EXTRACTION AND VALIDATION OF SCANNED HANDWRITTEN CHARACTERS
Ralph Niels, Louis Vuurpijl, *Nijmegen Institute for Cognition and Information, Netherlands*
- [1064] - LIPITK: A GENERIC TOOLKIT FOR ONLINE HANDWRITING RECOGNITION
Sriganesh Madhvanath, Deepu Vijayaseenan, Thanigai Murugan Kadiresan, *Hewlett-Packard Laboratories, India*
- [1068] - WHAT KNOWLEDGE ABOUT HANDWRITTEN LETTERS CAN BE USED TO RECOVER THEIR DRAWING ORDER ?
Laetitia Rousseau, Eric Anquetil, Jean Camillerapp, *IRISA / INSA, France*
- [1073] - ONLINE CHARACTER SEGMENTATION METHOD FOR UNCONSTRAINED HANDWRITING STRINGS USING OFF-STROKE FEATURES
Naohiro Furukawa, *Hitachi, Ltd., Japan*; Junko Tokuno, *Tokyo University of Agriculture and Technology, Japan*; Hisashi Ikeda, *Hitachi, Ltd., Japan*
- [1076] - ONLINE HANDWRITTEN CHARACTER RECOGNITION OF DEVANAGARI AND TELUGU CHARACTERS USING SUPPORT VECTOR MACHINES
Hariharan Swethalakshmi, Anitha Jayaraman, V. Srinivasa Chakravarthy, C. Chandra Sekhar, *Indian Institute of Technology, Madras, India*
- [1082] - 2D MODEL OF HIDDEN MARKOV MESH BASED ON COMPLETE LATTICES
Bong-Kee Sin, Sung-Un Kim, *Pukyong National University, South Korea*
- [1088] - A COMPLETE HANDWRITTEN NUMERAL DATABASE OF BANGLA – A MAJOR INDIC SCRIPT
Bidyut Baran Chaudhuri, *Indian Statistical Institute, India*
- [1096] - A COMPREHENSIVE ISOLATED FARSI/ARABIC CHARACTER DATABASE FOR HANDWRITTEN OCR RESEARCH
Saeed Mozaffari, *Amirkabir University of Technology, Iran*; Karim Faez, Farhad Faradji, Majid Ziaratban, S.Mohamad Golzan, *Amirkabir University of Technology, Iran*
- [1098] - FUZZY RELATIVE POSITIONING FOR ON-LINE HANDWRITTEN STROKE ANALYSIS
François Bouteruche, Sébastien Macé, Eric Anquetil, *IRISA-INSA, France*
- [1112] - PEN GESTURES IN ONLINE MAP AND PHOTOGRAPH ANNOTATION TASKS
Don Willems, Louis Vuurpijl, *NICI, Radboud University, Netherlands*
- [1120] - A PRIORI AND A POSTERIORI INTEGRATION AND COMBINATION OF LANGUAGE MODELS IN AN ON-LINE HANDWRITTEN SENTENCE RECOGNITION SYSTEM
Solen Quiniou, Eric Anquetil, *IRISA, France*
- [1121] - LIGATURE MODELING FOR RECOGNITION OF CHARACTERS WRITTEN IN 3D SPACE
Dae Hwan Kim, Jin Hyung Kim, *KAIST(Korea Advanced Institute of Science and Technology), South Korea*
- [1010] - HIT-MW DATASET FOR OFFLINE CHINESE HANDWRITTEN TEXT RECOGNITION
Tonghua Su, Tianwen Zhang, *Harbin Institute of Technology, China*; Dejun Guan, *Heilongjiang Mobile, China*
- [1017] - SENTENCE BOUNDARY DETECTION FOR HANDWRITTEN TEXT RECOGNITION
Matthias Zimmermann, *International Computer Science Institute, United States*
- [1022] - A DATA-EMBEDDING PEN
Seiichi Uchida, Kazuhiro Tanaka, *Kyushu University, Japan*; Masakazu Iwamura, *Osaka Prefecture University, Japan*; Shinichiro Omachi, *Tohoku University, Japan*; Koichi Kise, *Osaka Prefecture University, Japan*

SESSION S7: Writer Adaptation and Linguistic Modeling

Date: 26 October 2006

Time: 08:20 - 09:40

Location: Fédrun

Chair: Ching Y. SUEN, CENPARMI

08:20 [1043] - AN ADDITIVE ON-LINE SINGLE CHARACTER RECOGNITION METHOD
Jakob Sternby, *Lund University, Sweden*

08:40 [1039] - ALLOGRAPH BASED WRITER ADAPTATION FOR HANDWRITTEN CHARACTER RECOGNITION
Kumar Chellapilla, Patrice Simard, Ahmad Abdulkader, *Microsoft Research, United States*

09:00 [1015] - UNSUPERVISED ESTIMATION OF WRITING STYLE MODELS FOR IMPROVED UNCONSTRAINED OFF-LINE HANDWRITING RECOGNITION
Gernot Fink, *University of Dortmund, Robotics Research Institute, Germany*; Thomas Plötz, *Faculty of Technology, Bielefeld University, Germany*

09:20 [1020] - LANGUAGE INDEPENDENT STATISTICAL MODELS FOR ON-LINE HANDWRITING RECOGNITION
Freddy Perraud, *Vision Objects, France*; Christian Viard-Gaudin, *IRCCyN UMR CNRS 6597, France*; Emmanuel Morin, *LINA FRE CNRS 2729, France*

SESSION KS2: Keynote Speech 2

Date: 26 October 2006

Time: 09:40 - 10:40

Location: Fédrun

Chair: Jin Hyung KIM, KAIST

09:40 [1139] - LANGUAGE MODELS FOR HANDWRITING RECOGNITION
Joshua Goodman, *Microsoft Research, United States*

SESSION S8: Biometric and Forensic Applications

Date: 26 October 2006

Time: 11:00 - 12:20

Location: Fédrun

Chair: Lambert SCHOMAKER, University of Groningen

11:00 [1060] - INK-DEPOSITION ANALYSIS USING TEMPORAL (ONLINE) DATA
Katrin Franke, Steffen Rose, *Fraunhofer IPK, Germany*

11:20 [1091] - SIGNATURE VERIFICATION WITH DYNAMIC RBF NETWORKS AND TIME SERIES MOTIFS
Christian Gruber, Michael Coduro, Bernhard Sick, *University of Passau, Germany*

11:40 [1108] - EVALUATING THE SECURITY OF HANDWRITING BIOMETRICS
Lucas Ballard, *Johns Hopkins University, United States*; Daniel Lopresti, *Lehigh University, United States*; Fabian Monrose, *Johns Hopkins University, United States*

12:00 [1128] - A SEQUENTIAL MONTE CARLO ALGORITHM FOR ADAPTATION TO INTERSESSION VARIABILITY IN ON-LINE SIGNATURE VERIFICATION
Yudai Kato, Daigo Muramatsu, Takashi Matsumoto, *Waseda university, Japan*

SESSION PT3: Poster Teasers

Date: 26 October 2006

Time: 12:20 - 13:00

Location: Fédrun

Chair: Mohamed CHERIET, Ecole de technologie superieure

SESSION P3: Document analysis and Biometric Applications

Date: 26 October 2006

Time: 14:20 - 15:00

Location: Bréca

Chair: Mohamed CHERIET, École de Technologie Supérieure

[1026] - COMBINING SNAKES AND NEURAL NETWORKS FOR OFF-LINE SIGNATURE
Jose Velez, Angel Sanchez, Ana B. Moreno, Jose Luis Esteban, *Universidad Rey Juan Carlos, Spain*

[1027] - BIOMETRIC WRITER IDENTIFICATION BASED ON THE INTERDEPENDENCY
BETWEEN STATIC AND DYNAMIC FEATURES OF HANDWRITING
Joulia Chapran, Michael Fairhurst, *University of Kent, United Kingdom*

[1037] - ON THE ACCENT IN HANDWRITING OF INDIVIDUALS
Faisal Farooq, Liana Lorigo, Venu Govindaraju, *CEDAR, United States*

[1062] - A BLOCK-BASED HOUGH TRANSFORM MAPPING FOR TEXT LINE DETECTION IN
HANDWRITTEN DOCUMENTS
Georgios Louloudis, *Department of Informatics and Telecommunications, Greece*; Basilios
Gatos, Ioannis Pratikakis, *National Center for Scientific Research "Demokritos", Greece*;
Konstantinos Halatsis, *Department of Informatics and Telecommunications, Greece*

[1065] - WORD-WISE HAND-WRITTEN SCRIPT SEPARATION FOR INDIAN POSTAL
AUTOMATION
Kaushik Roy, *West Bengal University of Technology, India*; U. Pal, *Indian Statistical
Institute, India*

[1074] - REAL-TIME FEATURE-BASED AUTOMATIC SIGNATURE VERIFICATION
Mal Shridhar, *University of Michigan-Dearborn, United States*; Gilles Houle, *Kappa Image
LLC, United States*; Ron Bakker, *DIA Europe BV, Netherlands*; Fumitaka Kimura, *Mie
University, Japan*

[1075] - DAMAGED CHARACTER PATTERN RECOGNITION ON WOODEN TABLETS
EXCAVATED FROM THE HEIJYO PALACE SITE
Masaki Nakagawa, Kei Saito, Akihito Kitadai, Junko Tokuno, *Tokyo University of Agriculture
and Technology, Japan*; Hajime Baba, Akihiro Watanabe, *National Research Institute for
Cultural Properties, Japan*

[1080] - ON-LINE VERIFICATION FOR SIGNATURES OF DIFFERENT SIZES
Rodrigo Araujo, George Cavalcanti, Edson Carvalho, *Federal University of Pernambuco,
Brazil*

[1086] - COMPARISON OF GABOR-BASED FEATURES FOR WRITER IDENTIFICATION
Fateme Shahabi nejad, Mohammad Rahmati, *Amirkabir University of Technology, Iran*

[1092] - A NEW TABLE EXTRACTION AND RECOVERY METHODOLOGY WITH LITTLE USE OF
PREVIOUS KNOWLEDGE
Luiz Antônio Pereira Neves, *Universidade Federal de Campina Grande e Pontifícia
Universidade Católica do Paraná, Brazil*; João Marques de Carvalho, *Universidade Federal de
Campina Grande, Brazil*; Jacques Facon, Flávio Bortolozzi, *Pontifícia Universidade Católica
do Paraná, Brazil*

[1101] - COLOR MIXING CORRECTION FOR POST-PRINTED PATTERNS ON COLORED
BACKGROUND USING MODIFIED PARTICLE DENSITY MODEL
Misako Suwa, *Fujitsu Labs. LTD, Japan*; Katsuhito Fujimoto, *Fujitsu Labs. Ltd., Japan*

[1105] - MARKOV RANDOM FIELD MODELS TO EXTRACT THE LAYOUT OF COMPLEX
HANDWRITTEN DOCUMENTS
Stéphane Nicolas, Thierry Paquet, Laurent Heutte, *LITIS, France*

[1107] - MACHINE PRINT FILTER FOR HANDWRITING ANALYSIS
Siyuan Chen, Sargur Srihari, *CEDAR, SUNY Buffalo, United States*

[1116] - EVALUATION OF HANDWRITING SIMILARITIES USING HERMITE TRANSFORM
Stephane Bres, Véronique Eglin, *LIRIS, France*; C. Volpilhac-Auger, *ENS LSH, France*

[1119] - CONTEXT PROCESSING TO READ TEXT ON DAMAGED WOODEN TABLETS
Akihito Kitadai, Kazu Nishijima, Kei Saito, Masaki Nakagawa, *Tokyo University of Agriculture and Technology, Japan*; Hajime Baba, Akihiro Watanabe, *National Research Institute for Cultural Properties, Nara, Japan*

[1131] - GLOBAL METHOD BASED ON PATTERN OCCURRENCES FOR WRITER IDENTIFICATION
Nicole Vincent, *université Paris 5 - Crip5, France*; Rudolf Pareti, *université Paris 5 - Crip5, France*

[1004] - DISCRIMINATION BETWEEN DIGITS AND OUTLIERS IN HANDWRITTEN DOCUMENTS APPLIED TO THE EXTRACTION OF NUMERICAL FIELDS
Clément Chatelain, Laurent Heutte, Thierry Paquet, *Laboratoire PSI, France*

[1012] - OFF-LINE SIGNATURE VERIFICATION: A COMPARISON BETWEEN HUMAN AND MACHINE PERFORMANCE
Hanno Coetzer, Ben Herbst, Johan Du Preez, *University of Stellenbosch, South Africa*

[1014] - SAMPLE SELECTION FOR OPTIMISING SIGNATURE ENROLMENT
Richard Guest, Michael Fairhurst, *University of Kent, United Kingdom*

[1016] - AUTOMATIC INDEXING OF HANDWRITTEN MEDICAL FORMS FOR SEARCH ENGINES
Robert Milewski, Venu Govindaraju, *Center of Excellence for Document Analysis and Recognition, United States*

SESSION S9: HMMs and Hybrid Recognition Systems

Date: 26 October 2006

Time: 15:00 - 16:40

Location: Fédrun

Chair: Thierry ARTIÈRES, University of Paris 6

15:00 [1024] - HMM-BASED ON-LINE RECOGNITION OF HANDWRITTEN WHITEBOARD NOTES
Marcus Liwicki, Horst Bunke, *Institute of Computer Science and Applied Mathematics, Switzerland*

15:20 [1035] - A LEXICON DRIVEN METHOD FOR UNCONSTRAINED BANGLA HANDWRITTEN WORD RECOGNITION
U. Pal, *Indian Statistical Institute, India*; Kaushik Roy, *West Bengal University of Technology, India*; Fumitaka Kimura, *Mie University, Japan*

15:40 [1056] - USING SEGMENTATION CONSTRAINTS IN AN IMPLICIT SEGMENTATION SCHEME FOR ON-LINE WORD RECOGNITION
Emilie Caillault, Christian Viard-Gaudin, *IRCCyN, France*

16:00 [1087] - NEURAL COMBINATION OF ANN AND HMM FOR HANDWRITTEN DEVANAGARI NUMERAL RECOGNITION
Ujjwal Bhattacharya, Swapan Kumar Parui, Bikash Shaw, *Indian Statistical Institute, India*; Kuntal Bhattacharya, *University of Calcutta, India*

16:20 [1106] - NOVEL HYBRID NN/HMM MODELLING TECHNIQUES FOR ON-LINE HANDWRITING RECOGNITION
Joachim Schenk, Gerhard Rigoll, *TU München, Germany*

SESSION CS: Closing Session

Date: 26 October 2006

Time: 17:00 - 17:40

Location: Fédrun

Chair: Guy LORETTE, IRISA