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Dedicated to

Charles Darwin

At his bi-centenary year who revealed the fact that “humanity is our own creation”
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Preface

Dear Reader!

Welcome to the proceedings of the First International Conference on Intelligent Human Computer Interaction (IHCI 2009) organized by the Indian Institute of Information Technology Allahabad. This is the first International Conference focused on Human Computer Interaction being organized in India. There is an increased interest in the human factors issues of computer use with a number of systems. The conference aims to provide an excellent opportunity for the dissemination of interesting new research, discussion about them and the generation of new ideas in these areas.

We planned to organize the conference around the following five tracks:

- Signal and Vision Processing
- Language Processing
- Cognitive modeling
- Sensors and Embedded systems for HCI
- Graphics, Animation and Gaming

Graphics, Animation and Gaming, Signal and Vision Processing, Language Processing and Cognitive modeling attracted due attention in the conference program. Very few papers were submitted in Sensors and Embedded systems and Graphics and Animation. Language is the primary means of communication between humans though usually neglected from HCI perspective. It will be better if human-computer interaction can be done in the same model as human-human communication. This was the main motivation behind including Language Processing as a separate track in the conference. However, some of the papers could not really achieve the application aspect from the HCI perspective. We will improve on this point in the next conference.

In total nearly 130 papers were submitted. The program committee had a very challenging task of selecting high quality submissions. Each paper was peer-reviewed by at least two reviewers. On the recommendation of Program Committee 41 papers were accepted for the presentation in the main conference including two papers accepted for Web X.0 and Web Mining workshop. Out of which six papers were withdrawn. Remaining thirty five papers put were re-organized in following four sessions:

- Signal and Vision Processing
- Human Computer Interaction
- Language Processing
Knowledge Discovery and Data Mining
Thirty five papers and four talks put in the proceedings of the First International Conference on Intelligent Human Computer Interaction cover a wide spectrum of research topics in HCI like brain-computer interface, text and vision based interfaces, visualization tools etc.
This volume will be useful for researchers working in this fascinating and fast growing research area.
We would like to express our sincere thanks to all the invited speakers, tutorial presenters, authors and members of the program committee that has made this conference a success.

U. S. Tiwary
Tanveer J. Siddiqui
M Radhakrishna
M. D. Tiwari
Acknowledgement

We sincerely thank to our honourable patrons Sri F. C. Kohli and Dr. M. D. Tiwari for their whole-hearted support for this conference.

We thank our conference chair, Prof. Mriganka Sur, from deepest corner of our heart.

This conference would not have been successful without the support of IIIT-Allahabad. Our sincere thank goes to the entire family of IIIT-Allahabad, including faculty, staff and students for their assistance and hard work in organizing the conference and its proceedings.

We gratefully acknowledge IEEE UP chapter, IIT Kanpur for co-sponsoring the workshop ‘Recent trends in HCI’.

We also thank Patent Referral Centre, IIIT Allahabad, setup by Ministry of Communication and Information Technology, Government of India, for conducting the plagiarism check on all the technical papers submitted.

And last but not the least, we express our deep sense of gratitude to all the invited speakers, tutorial presenters, authors and members of the program committee without their support this conference could not have been successful.

U. S. Tiwary & M. Radhakrishna
Co-Chairs,
IHCI 2009
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