

Proceedings of the Annual General Meeting of Indian Unit for Pattern Recognition and Machine Intelligence (IUPRAI) held on 17 December 2015 in IIT Patna (venue for NCVPRIPG 2015).

Meeting was presided by Bhabatosh Chanda, the President of IUPRAI. Members present at IIT Patna attended the meeting and actively participated in the discussions. Following agenda items were discussed and resolved.

1. C. V. Jawahar, the Secretary of IUPRAI presented activities during January 2015 – December 2015. This includes organizing (i) summer school at ISI Kolkata, (ii) workshop at IIT Mandi, (iii) summer school at BVBCET Hubli, and (iv) the conference NCVPRIPG at IIT Patna. Respective organizers presented brief reports on the events. Some of the reports are attached herewith.
2. It was informed that there are more than 150 members of IUPRAI and invited the participants, who are not IUPRAI members, to become members. He also explained the benefits to be member of IUPRAI.
3. Regarding organizing NCVPRIPG 2017: Participants from IIT Mandi have shown interest to organize the event at their campus or at some location close to it. However, to place complete proposal they need some more time. TCE Madurai also has shown their interest. It is decided that all the proposals should reach the steering committee and a decision can be made in May 2016.
4. Organizers of ICVGIP 2016 (IIT Guwahati) reported their progress in this regard. They were advised to work in collaboration with Steering committee for guidance and support.
5. It was reported that the organizers of many conferences and workshops were approaching the President/the Secretary for technical sponsorship of IUPRAI. To ensure that the sponsorship be rendered to only quality events, it was needed to set up a guide line. Following subcommittee was formed for the purpose.
 - a. Santany Cahudhury, IITD
 - b. Prabir K. Biswas, IITKgp
 - c. Suman Mitra, DA-IICT
 - d. Parag Chaudhuri, IITB (Co-ordinator)
6. Miscellaneous: (From the participants)
 - a. A member requested that the Best PhD Thesis Award Committee should announce the procedure and the dead line at the earliest.
 - b. A member requested that the Website of IUPRAI must be improved and should include all the coming events in this field.
 - c. It was requested that the Membership Application may be made fully electronic including money transfer.

As there was no other items to discuss the meeting ended with a vote of thanks by the Chair.

A report on Second Summer School on Computer Vision, Graphics and Image Processing organized by ECSU, ISI, Kolkata during May 25 – July 06, 2015 (<http://www.isical.ac.in/~ecsu>)

The second summer School on Computer Vision, Graphics and Image Processing was organized at Electronics and Communication Sciences Unit (ECSU), Indian Statistical Institute, Kolkata during May 25 – July 06, 2015. The school was open to the undergraduate students (2nd year onwards) of Computer Science, Electronics, Electrical engineering, Information Technology and related subjects. Also there was room for a few graduate students. The schedule of the school was divided into two parts: The first part includes (a) a number of tutorial lectures covering fundamental aspects; and (b) some of the advanced lectures to provide access to the research areas in Computer Vision, Graphics and Image Processing with popular and useful applications. The second part includes project work by the participants on the topics

related to the theme of the school. Attendance in all lectures and completion of the project was mandatory to fulfill the requirement of the completion of the school.

The call for participation was published in the ECSU as well as in the IUPRAI web site during end of April, 2015 and the last date of submitting application was May 10, 2015. The CFP was also circulated in the different Universities and Institutes through email. We received around 40 applications from different parts of the country. We had to reject many applications due to overlap between their examinations schedules with the duration of the school. We selected 22 candidates for the school and finally 17 are turned up. Out of these 17 participants 16 were B.E./B.Tech student and one M.C.A student; 5 from Jadavpur University, 5 from IIST, Shibpur, 4 from Calcutta University, one from each of NIT Rourkela, KIIT Orissa, and SJCE Mysore.

The lectures were delivered by the senior Professors, Associate Scientists and Research Scholars of ECSU, ISI, Kolkata. The 7 groups are formed among the total of 17 participants considering the minimum group size as 2 and the maximum as 3. For each group, a supervisor was assigned to monitor the project work constantly. Note that the participants formed their own group and the supervisors are assigned to them as per the choice of their area of work. A period of about 30 days was given to complete the project work.

All the groups submitted their project report on July 03, 2015. The presentations of the projects were held on July 06, 2015 at ECSU Seminar Room in presence of two External experts (one from ISI, Kolkata and other from Jadavpur University). All the presentations were up to the mark with remarkable interactions with the audience and the experts. Following 3 project works were awarded as special mention.

- Reconstruction of Torn Documents using Feature Detecting Algorithm by Arnab Mitra, Dipan Roy and Siddharth Yagnik
- A Study on Image Retargeting by Kusum Kumari and Sabana Khatoon
- Grading of Cells from H & E Stained Histopathological Breast Cancer Images by Tannistha Som and Soumya Gupta

The school ended with a valedictory session where participants expressed their happiness and satisfaction for wonderful organization, informative lectures and working experience at ISI, Kolkata. The organizers also promised to organize 3rd version of the school in a bigger format. Finally, the participation certificates were distributed.

A report on a workshop held at IIT Mandi during June 24-28, 2015

A five day Workshop on Machine Learning for Medical Image Analysis (WMLMIA 2015) was organized by Indian Institute of Technology Mandi (IIT Mandi) during June 24-28, 2015.

The workshop was organized with the objective of improving the awareness of research in medical image analysis, among young researchers, both from theoretical and practical perspectives. It also aimed to facilitate the intermingling and networking of domain experts in machine learning and medical image analysis, from academia and industry, and medical practitioners.

Towards achieving this objective, the workshop involved talks by eleven speakers, consisting of five researchers from academic institutions (IIT Kharagpur, IIT Bombay, IIT Madras, IIIT Hyderabad), five experts from industry (GE, SIEMENS, EVIVE software systems, AINDRA systems), and a radiologist from PGIMER Chandigarh.

The talks focused on a variety of topics covering the background on machine learning, applications in medical image analysis research and system development, and some clinical perspectives. Some examples

include neonatal healthcare, acoustic and OCT image analysis, medical image reconstruction patient monitoring, vessel segmentation, coronary artery plaque, and healthcare analytics.

The workshop was attended by about sixty participants from various institutions across India. The participation consisted of post-graduate and under-graduate students, and some faculty members. The workshop facilitated many useful interactions between the guests and participants.

During these interactions, the need for further developing the medical image analysis community was realized, and it was discussed that more meetings/activities should take place, to achieve the same. Some conscious efforts to be made in this direction were outlined.

The workshop was sponsored by IIT Mandi, Science and Engineering Research Board (SERB), Council of Scientific & Industrial Research (CSIR), Aindra systems, and Evive software systems.

A report on NCVPRIPG held at IIT Patna during December 16-19, 2015

The Fifth National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG) will be held at Patna, Bihar from 16 to 19 December, 2015. NCVPRIPG is being organized by the Indian Institute of Technology Patna in association with the Indian Unit for Pattern Recognition and Artificial Intelligence (IUPRAI). Detail may be found at <http://www.iitp.ac.in/ncvpripg/>.