

Career Development Plan second year

Vegetation mapping and monitoring using hyperspectral data and advanced processing techniques.

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The career development plan for the 2nd year contains the short term goals and objectives that are to be achieved during the year. The plan is divided into different fields that are related to the roles and key activities of mine within the HYPER-I-Net project.

My personal goals are to gain relevant information with sufficient level of details in my research area. I would like to improve my skills as much as possible meanwhile paying special attention on being precise and accomplish my task on high level. I would like to learn from other people while I am able to share my experiences and results with other researchers thus allowing a great level of growth of common knowledge.

In terms of research network activities and educational plans the following tasks were scheduled for the year 2009:

- A secondment (1 month) to RSL Zurich in order to gain relevant knowledge and practical skills in hyperspectral processing chain design and cutting edge technological solutions.
- Attend the Hyper-I-Net Mid term workshop at Tel Aviv as well as the 6th Earsel SIG IS workshop and present the results of past year experience and forecast the prospective achievements for the second half of my stay at the University of Pavia.
- Attend the Hyper-I-Net Mid term review hold at DLR German Aerospace Center, (Munich Germany) and present the activities of the first period of my stay at the University of Pavia, present the achievements and results and forecast the prospective achievements for the second half of my stay.
- Participation to the 3rd HYPER-I-NET Summer School in Pavia (Italy) in September.

Beside these scheduled activities the main objective for the 1st year of my career development plan was to assemble a full project proposal both for the HYPER-I-NET project and for the University of Pavia to get enrolled in the PhD program of them. This is done by:

- Carrying out a literature review of the research area.
- Handing in the D4.2 deliverable of the HYPER-I-NET project (January 2009)
- Further extend of my knowledge and gain more theoretical background and practical skills throughout research activities and secondments
- Starting the work on the project that was proposed to be carried out within the Hyper-I-Net project

As a consequence of the proposed project work several additional possibilities and duties arise. As the project is progressing publications and advertisement of the achieved results are planned over the whole year.

The planned conference and paper submissions;

- Article at the Hungarian Journal of Landscape Ecology (Accepted in press)
- 6th Earsel SIG IS workshop in Tel Aviv 2009 (Poster acceptance)
- 2009 IEEE International Geoscience & Remote Sensing Symposium, Cape Town, Africa (Under review)
- Article submission to Remote Sensing of Environment (To be submitted late May)
- Article submission to International Journal of Remote Sensing (To be submitted late June)

According to the project proposal several algorithms and computer programs are to be implemented and to be written during the project. These products are to be raised under a public license and extensive testing of the codes are needed. In order to integrate the results of test therefore a transparent project and bug management system is desired to be set up during the preliminary steps of the actual project work.

To further extend my capabilities and scientific experience not only in learning but also in the process of sharing knowledge a proposal for a one semester introductory course in Geographical Information Sciences was delivered and is being evaluated by the Engineering School of University of Pavia.

Besides these duties, throughout the secondments and meetings planned for the year I would like build and maintain good relationships with other researchers.