

Skövde Workshop on Information Fusion Topics

SWIFT

Skövde, Sweden
12 - 14 October

2009

The Information Fusion Research Program at the University of Skövde invites you to the [Skövde Workshop on Information Fusion Topics](#) 2009.

SWIFT offers an opportunity for practitioners from research and industry in the area of information fusion to gather and get a snapshot of the rapidly developing research field of information fusion. SWIFT provides an arena for discussion and reflection on new innovative ideas to contribute to the further development of information fusion. We are especially interested in creating an environment for discussing high-level fusion (i.e., for estimating situations and impacts) and similarities and differences between traditional and novel application areas.

SWIFT 2009 is organized as a part of [Systems and Software Week](#) (SASW).

Topics of interest include, but are not limited to:

- High-level information fusion for situation awareness and impact assessment
Situation and threat assessment, intelligence fusion, decision fusion, context-based fusion, ontology-based approaches for high level fusion, knowledge based and probabilistic reasoning in high level fusion
- Reasoning under uncertainty
Uncertainty computation with Bayesian, fuzzy, evidential, imprecise or interval representation; information dependencies, uncertain association, uncertainty visualization, human decision-making under uncertainty
- The active role of the user in information fusion
Active role of the user in object identification, tracking, situation & impact assessment, resource management or decision making; HCI, mixed-initiative interaction, user requirements, evaluation of user contributions
- Information fusion for chemo- and bioinformatics
Fusing molecular descriptors with textual annotations, handling uncertainty, classifier and feature fusion, concept description, analyzing reasons behind predictions
- Evaluation of information fusion systems
Methods and metrics for comprehensive evaluation; goal dependent metrics adapted to situation, domain context or moment in time; testing for optimality; performance measurement in practical applications



- Support and infrastructure issues
Middleware and architectures for fusion, pre-processing and association of observations, meta-data, sensor and information modeling
- Future directions and new application areas for information fusion
New, promising areas and ideas for information fusion research and applications
- Experience of industrial applications of information fusion
Covering any relevant topic

We are inviting authors to submit **extended abstracts** of 3-6 pages on the above or related topics. The abstracts may include problem descriptions, possible approaches, preliminary results, or experience from applications. **Submission deadline is 30 Aug 2009.**

Accepted peer-reviewed abstracts will be made available in a workshop proceedings. For submission instructions and further information about the workshop, see <http://www.his.se/infofusion/swift2009> or email swift2009@lists.his.se.

We are looking forward to your participation in October!
The SWIFT 2009 organizing committee