

# Using Visualization Analysis for Evaluating Students' Virtual Science Fairs Outcomes

**Proposer :** Dr. Gabriela Jonas-Ahrend , faculty of physics education at the Technische Universitaet Dortmund

**Visited laboratory:** Enterprise Systems Modeling Laboratory (ESML), Haifa, Israel

**Visit Dates :** 11 November to 15 November, 2012

The project director of "Virtual Science Fair – Germany"- Dr. Gabriela Jonas-Ahrend from the faculty of physics education at the Technische Universitaet Dortmund, was hosted by Prof. [Dov Dori](#), Prof. Judy Dori, and their research teams and visited the Technion's Science Teaching Visualization Laboratory and the [Enterprise Systems Modeling Laboratory \(ESML\)](#) at the [Technion, Israel Institute of Technology](#) between 11 and 15 November 2012.



The purposes of this visit visual expressions which fair projects, to learn how virtual science fairs' methodology and to students' scientific During the visit Dr.



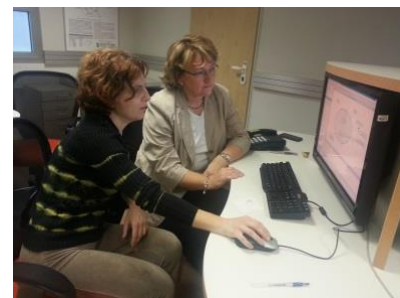
was to study how to analyze students use in virtual science to model the e-mentoring and the processes using the OPM explore additional ways to foster literacy and motivation.

Jonas-Ahrend presented the Virtual Science Fair project as well as examples of students' visual outcomes. Further to the presentation the visitor, the hosts and the research team began conducting in-depth analysis



of the visual students' outcomes and the science literacy that is reflected through those outcomes.

Additionally we constructed an OPM model that represents the science fair project's system. The visit ended with a promise to continue the joint research activities.



At the end of the visit Dr. Jonas-Ahrend wrote "My stay was a unique and great experience. I feel honored to be hosted by VISIONAIR. I feel truly thankful for that great



cooperation and the special collaboration with great people of the team. I am also very thankful for the warm welcome and nice talks."