Evolutionary Computation in Practice

For the past three years, Evolutionary Computation in Industry (ECI) track at Genetic and Evolutionary Computation Conference (GECCO) has invited many managers, technology scouts and practitioners to participate in presentations and discussions describing how evolution-related technologies are being used to solve real-world problems. In 2005, we continue this tradition of project presentations and panel discussions from members in industry. Additionally, we expand our scope to include presentations by representatives from governmental agencies. Moreover, a new topic on technology transfer from academia to industry is introduced. To reflect these changes, we rename the track as Evolutionary Computation in Practice (ECP), indicating that it is a forum to discuss issues related to practical application of Evolutionary Computation (EC).

The 2005 ECP program consists of 20 presentations from the following application areas:

- Biomedical

- Design

- Energy and Resources

- Finance and Retail

- Military

- Technology Transfer from Academia to Industry

Some presentations describe how EC is successfully applied to solve real-world problems while others share lessons learned from their projects. They are useful to individuals who are interested in assessing the potentials of EC for business applications.

Technology Transfer from Academia to Industry is a new session dedicated to promoting the interaction between academia and industry. The presentations suggest ways to establish/enhance their relationship. Early this year, the first survey in EC community was announced. The purpose of the survey is to assist in understanding trends in our field and in helping EC graduates find jobs. The survey results are presented in this session.

Organizers:

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Advisory Committee:

- David Davis, NuTech Solutions;

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- Mark Jakiela, Washington University in St. Louis;