Visual Analytics: Collaboration of Human and Computer to Solve the World's Most Pressing Challenges

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Visual Analytics – The Vision

- The Challenge: Continuously and rapidly growing data sets
- The Vision: Integrating human capabilities with machine capabilities will most effectively address this challenge
- Solutions increasingly demanded in various industries
  - Financial industry
  - Security and Safety
  - Policy management
  - Life science
- The problem will only get worse!!
Why Visual Analytics today?

What do we have?

- Automatic Knowledge Discovery & Data Mining
- Interactive Visual Data-Exploration

What do we need?

- Tight Integration of Visual and Automatic Data Analysis Methods with Database Technology for a Scalable Interactive Decision Support

Diagram:

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Data -> Visualisation -> Knowledge

Visualisation

Data Mining

Models

Feedback loop
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Current FET Open Project: VisMaster CA

- New interdisciplinary research community with over 35 partners
- Publication of European Visual Analytics Research Roadmap in September 2010
Related Flagship Ideas

- Humans and Computers have to collaborate to solve the problems of the future, combining their advantages
  - Complex Socio-Techno Systems
  - Future Problem Solving Technologies

Specific Related Flagship Initiative:

- The FuturIcT Knowledge Accelerator: Unleashing the Power of Information for a Sustainable Future
Contact

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