

VULPET (Vulnerability Assessment of Petrochemical Plants)

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4) Project status: Ongoing (01.09.2005)

5) Organizational unit: Departement Maschinenbau und Verfahrenstechnik, Institut für Energietechnik (IET), Kröger, Wolfgang, kroeger@mavt.ethz.ch, LZ=03292

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9) Funding source(s):

- Industry

10) Partner organizations: no entry

11) Short Summary: Developing, implementing and initial testing of an original methodology for the insurance and reinsurance industry in order to assess vulnerability of petrochemical and refineries, based on models of catastrophe theory, multi-criteria indicators integration, by use of dedicated Decision Support Systems

12) Keywords: Economics, Engineering Sciences, Technology

13) Project description:

Developing, implementing and initial testing of an original methodology for the insurance and reinsurance industry in order to assess vulnerability of petrochemical and refineries, based on models of catastrophe theory, multi-criteria indicators integration, by use of dedicated Decision Support Systems.

The project examines the way to assess vulnerability of large industrial complexes by use of novel models, expert elicitation and assessment in situ of multidimensional indicators dealing with technical and management performance of industrial sites.

14) Popular description:

Vulnerability, system safety, management and risk governance indicators

15) Graphics: no entry

16) Publications: no entry

17) Links to important web pages: no entry