Data quality course

Receiving institutes: University Münster, University of Uppsala

TU Vienna

Nr	Module	Content	Text	Dates	Auto evaluation
1	**Introduction**	Goal of the course Ontology / Data quality decision		23.10.06	Frank (93). *decision making and data quality* Mark, Egenhofer (04). *Ontological foundations for GI-Science*
2	**Data quality aspects**	Quality Uncertainty, Fitness for use		30.10.06	NCGIA: *Data quality measurement and assessment* Drummond (95). *Elements of spatial data quality*
3	**Data quality standards**	Standards Metadata		06.11.06	ICA: *Spatial data standards comission*
4	**Mathematics**	Standard methods, statistics Convolution / MAUP		13.11.06	
5	**Imprecision and vagueness**	Fuzzy Probabilistic rough sets		20.11.06	Schneider (04): *Vague spatial datatypes* Fisher. *Uncertainty…: Ships passing in the nights*
6a	**5 tier ontology** Overview / Tier 0 + 1	Physical environment Observation of physical reality		**27.11.06** live!	Navratil/Frank (05): *Influences affecting data quality* Navratil/Frank (06): *An ontological Framework*
6b	**5 tier ontology** Tier 2 + 3	World of objects Socially constructed objects		04.12.06	*IJGIS Volume 15, Number 7, Frank 2001: Tiers of ontology and consistency constraints…*
6c	**5 tier ontology** Tier 3 + 4	Effects of socially constructed reality Subjective knowledge		**11.12.06** live!	
7	**Data quality in economic, social and legal context**	Social context Fundamentals of law		**08.01.07** live!	Navratil (04). *How laws affect data quality*
8	**Decision economics**	Information in decision processes Problems		**15.01.07** live!	
9	**Spatial / temporal DB and data quality**	Consistency constraints		22.01.07	Goodchild (89). *Accuracy of spatial databases* Snodgrass (92). *Temporal databases*
10	**Questions / Discussion**			**29.01.07** live!	
11	**Applications / Exercises**			29.01.07	