













































































![](_page_19_Figure_1.jpeg)

![](_page_20_Figure_0.jpeg)

![](_page_20_Figure_1.jpeg)

![](_page_21_Figure_0.jpeg)

![](_page_21_Figure_1.jpeg)

![](_page_22_Figure_0.jpeg)

![](_page_22_Figure_1.jpeg)

![](_page_23_Figure_0.jpeg)

![](_page_23_Picture_1.jpeg)

![](_page_24_Figure_0.jpeg)

![](_page_24_Picture_1.jpeg)

![](_page_25_Figure_0.jpeg)

WEE-NE	T T			Department of Telecooperation	
Web Engineering Network of Excellence			A de ete	Han Onevetiene	
Summer School I	n Trento	Adaptation Operations			
			Classi	fication Criteria	
🗆 Kin	nd of Adar	otation			
	Effect: enha	coment reduction i	ncrease		
	Complexity:	atomia composed	inci case		
	Complexity.				
	Genericity: g	jeneric, application-s	pecific		
		Adaptation Operation			
		<pre>enableEntity()</pre>	removeLink()	<pre>setCollectionFilter()</pre>	
Kind of	Effect	enhancement	reduction	reduction	
Adaptation	Complexity	atomic	atomic	atomic	
Auaptation	Genericity	generic	generic	generic	
W. Schwing	jer - Model-Driven	Development of Ubiquitous	s Web-Applications	52	

Web Engineering P	letwork of				
Summer School in Trento		Adaptation Operations			
		Classification Criteria			
🗖 Subj	ect of Adapt	tation			
• <b>D</b>	esign Level: Info peration Design	ormation Design, Na	vigation Design, Pr	resentation Design,	
- M	odel Element: E	Entity, Link, Collectio	n, Semantic Assoc	iation,	
• G	ranularity: micro	adaptation, macro	adaptation		
<ul> <li>Abstraction: type level, instance level</li> </ul>					
A	bstraction: type	level, instance level			
• A	bstraction: type	level, instance level			
• A	bstraction: type	level, instance level			
• AI	bstraction: type	level, instance level	Adaptation Oper	ration	
• A	bstraction: type	enableEntity()	Adaptation Oper removeLink()	ation	
- Al	Design Level	enableEntity()	Adaptation Oper removeLink () Navigation Design	ration setCollectionFilter() Navigation Design	
- Al	Design Level Model Element	enableEntity() Information Design Entity	Adaptation Oper removeLink () Navigation Design Link	ration setCollectionFilter() Navigation Design Collection	
<ul> <li>Al</li> <li>Subject of</li> <li>Adaptation</li> </ul>	Design Level Model Element Granularity	enableEntity() Information Design Entity micro adaptation	Adaptation Oper removeLink () Navigation Design Link micro adaptation	ration setCollectionFilter() Navigation Design Collection micro adaptation	
- A Subject of Adaptation	Design Level Model Element Granularity Abstracation	enableEntity() Information Design Entity micro adaptation type level	Adaptation Oper removeLink () Navigation Design Link micro adaptation type level	ration setCollectionFilter() Navigation Design Collection micro adaptation instance level	
All     Subject of     Adaptation	Design Level Model Element Granularity Abstracation	enableEntity() Information Design Entity micro adaptation type level	Adaptation Oper removeLink () Navigation Design Link micro adaptation type level	ation setCollectionFilter() Navigation Design Collection micro adaptation instance level	
All     Subject of     Adaptation	Design Level Model Element Granularity Abstracation	enableEntity() Information Design Entity micro adaptation type level	Adaptation Oper removeLink () Navigation Design Link micro adaptation type level	ation setCollectionFilter() Navigation Design Collection micro adaptation instance level	
• Al	Design Level Model Element Granularity Abstracation	enableEntity() Information Design Entity micro adaptation type level	Adaptation Oper removeLink () Navigation Design Link micro adaptation type level	ation setCollectionFilter() Navigation Design Collection micro adaptation instance level	

![](_page_26_Picture_1.jpeg)

![](_page_27_Figure_0.jpeg)

Well Exc Summ	EE-NET	nk ol	Department of Telecoopera Customization Requirements Customizability
x	- 4 - 4 -	Definition	The context situations in which the Web application is used is known at design time. The applications are designed to function as seperated applications.
Conte	Static	Example	The context of a tourist information system is either Web or WAP. Either the Web Application is used in the Web-context or it is used in the Wap-context. (context: non-changing)
	dynamic	Definition	The context situation evolves during run-time.
		Example	The history of previous visited pages is evolving during run- times. (context: changing)
u	static	Definition	The adaption is avaliable at definition time.
ptati		Example	The adapted versions – a color version and a b/w version of a picture is avaliable at definition time. (adaptation: choose)
\ Ada		Definition	The adaption is computed during run-time
	dynamic	Example	The compression of a picture is computed during run-time by taking into account the current bandwith available (adaptation: compute)
W.	Schwinger <u>- M</u> a	odel-Driven Deve	compute)

![](_page_28_Figure_0.jpeg)

![](_page_28_Figure_1.jpeg)

![](_page_29_Figure_0.jpeg)

![](_page_29_Figure_1.jpeg)

![](_page_30_Figure_0.jpeg)

![](_page_30_Figure_1.jpeg)

![](_page_31_Figure_0.jpeg)

Web Engineer Excellence Summer School	In Trento Customiz Customiz	ation Requirements tomizibility Examples
dynamic context	Present to new customers different contract condition information than to regular customer. The two presented versions are static whereas the decision when a customer gets into the category regular customer is of dynamic context computated on bases of previous visits	Compress the presented pictures on bases of a changing bandwith rate. The current bandwith is taken for to compute the compressed picture adequately.
static context	Model two different WebSites Presentations: one for the Web and one for the Web by actually defining the two different versions at definition time.	Present only those films released for children for the childrens web site. The sites are seperated thus giving static context. The page with the list of films is computed during run-time by checking for each film whether it is released for under- eighteen.
	static adaptation	dynamic adaptation

![](_page_32_Figure_0.jpeg)

![](_page_32_Figure_1.jpeg)

![](_page_33_Picture_0.jpeg)

![](_page_33_Figure_1.jpeg)

![](_page_34_Figure_0.jpeg)

![](_page_34_Figure_1.jpeg)

![](_page_35_Figure_0.jpeg)

![](_page_35_Figure_1.jpeg)

![](_page_36_Figure_0.jpeg)