

# **An Emerging Overview of Requirements Engineering Tools**

## **Supplementary Materials**

Nitish Patkar ✉, Elio Frischi ✉, Mohammad Ghafari ✉, and Oscar Nierstrasz ✉

Software Composition Group, University of Bern, Switzerland  
<http://scg.unibe.ch/staff>

*This document provides supplementary materials which have not been included in the submitted conference paper due to size restrictions.*

## **1 Reviewed Papers**

Following table presents the list of papers considered for the literature review in the original work. The first column indicates the assigned identifier for the paper which we refer to throughout this document (S1, S02, ..., S142), second column indicates the year of publication, while the second column represents the title of the corresponding study.

Study Nr.	Year	Title
1	2017	<a href="#">Toward model-based requirement engineering tool support</a>
2	2011	<a href="#">A CASE Tool to Support Automated Modelling and Analysis of Security Requirements, Based on Secure Tropos</a>
3	2016	<a href="#">Engineering Requirements with Desiree: An Empirical Evaluation</a>
4	2013	<a href="#">Outsourcing Location Selection with SODA: A Requirements Based Decision Support Methodology and Tool</a>
5	2011	<a href="#">A Tool for Managing Evolving Security Requirements</a>
6	2018	<a href="#">Requirements Engineering for Model-Based Enterprise Architecture Management with ArchiMate</a>
7	2014	<a href="#">ContoGram: A Novel Contextual Requirements Engineering Tool</a>
8	2008	<a href="#">A Requirement Tool to Support Model-Based Requirement Engineering</a>
9	2016	<a href="#">Maintaining Requirements Using Web Usage Data</a>
10	2011	<a href="#">A UML Profile and Tool Support for Evolutionary Requirements Engineering</a>
11	2012	<a href="#">STS-Tool: Using Commitments to Specify Socio-Technical Security Requirements</a>
12	2006	<a href="#">SecTOOL – Supporting Requirements Engineering for Access Control</a>
13	2007	<a href="#">Integrated Support for Product Configuration and Requirements Engineering in Product Derivation</a>
14	2005	<a href="#">Security and Trust Requirements Engineering</a>
15	2006	<a href="#">A tool suite for aspect-oriented requirements engineering</a>
16	2009	<a href="#">Wiki-Based Tool for Requirements Engineering According to the ProjectIT Approach</a>
17	2012	<a href="#">WebREd: A Model-Driven Tool for Web Requirements Specification and Optimization</a>
18	2015	<a href="#">I-SafE: An integrated Safety Engineering Tool</a>

19	2008	<a href="#"><u>Automatic Conceptual Analysis of User Requirements with the RequirementsEngineering Assistance Diagnostic (READ) Tool</u></a>
20	2008	<a href="#"><u>Semantifying requirements engineering–the softwiki approach</u></a>
21	2005	<a href="#"><u>ST-Tool: A CASE Tool for Modeling and Analyzing Trust Requirements</u></a>
22	2016	<a href="#"><u>Requirements Elicitation with Extended Goal Graph</u></a>
23	2017	<a href="#"><u>A Method for Verifying Non-Functional Requirements</u></a>
24	2009	<a href="#"><u>Supporting Visualization and Analysis of Requirements Evolution</u></a>
25	2009	<a href="#"><u>Pris Tool: A Case Tool For Privacy-Oriented Requirements Engineering</u></a>
26	2005	<a href="#"><u>A Process and Tool Support for Managing Activity and Resource Conflicts Based on Requirements Classification</u></a>
27	2005	<a href="#"><u>Task-Driven Tools for Requirements Engineering</u></a>
28	2016	<a href="#"><u>Mobility Requirements Engineering Tool (MoRE)</u></a>
29	2007	<a href="#"><u>Involving Non-Technicians in Product Derivation and Requirements Engineering: ATool Suite for Product Line Engineering</u></a>
30	2005	<a href="#"><u>Modeling security requirements through ownership, permission and delegation</u></a>
31	2007	<a href="#"><u>The Mobile Scenario Presenter: A Tool for in situ Requirements Discovery with Scenarios</u></a>
32	2006	<a href="#"><u>Making Mobile Requirements Engineering Tools Usable and Useful</u></a>
33	2018	<a href="#"><u>Pinpointing Ambiguity and Incompleteness in Requirements Engineering via Information Visualization and NLP</u></a>
34	2013	<a href="#"><u>reqT.org – Towards a Semi-Formal, Open and Scalable Requirements Modeling Tool</u></a>
35	2007	<a href="#"><u>ElicitO: A Quality Ontology-Guided NFR Elicitation Tool</u></a>
36	2018	<a href="#"><u>Using Tools to Assist Identification of Non-requirements in Requirements Specifications – A Controlled Experiment</u></a>
37	2006	<a href="#"><u>Towards integrated tool support for the user requirements notation</u></a>
38	2009	<a href="#"><u>An Enhanced Wiki for Requirements Engineering</u></a>

39	2015	<a href="#"><u>NAT2TEST Tool: From Natural Language Requirements to Test Cases Based on CSP</u></a>
40	2008	<a href="#"><u>Wiki supported collaborative requirements engineering</u></a>
41	2005	<a href="#"><u>Tool-Supported Verification of Product Line Requirements</u></a>
42	2017	<a href="#"><u>MaramaAIC: tool support for consistency management and validation of requirements</u></a>
43	2006	<a href="#"><u>An experiment on linguistic tool support for consolidation of requirements from multiple sources in market-driven product development</u></a>
44	2007	<a href="#"><u>Enhancing Requirements Engineering Activities through the Use of Mobile Technology Devices and Tools</u></a>
45	2017	<a href="#"><u>A supporting tool for requirements change management in distributed agile development</u></a>
46	2011	<a href="#"><u>Integrating privacy requirements considerations into a security requirementsengineering method and tool</u></a>
47	2012	<a href="#"><u>A CSCW Requirements Engineering CASE Tool: Development and usability evaluation</u></a>
48	2019	<a href="#"><u>Detecting terminological ambiguity in user stories: Tool and experimentation</u></a>
49	2010	<a href="#"><u>Security requirements engineering framework for software product lines</u></a>
50	2019	<a href="#"><u>Information quality requirements engineering with STS-IQ</u></a>
51	2016	<a href="#"><u>Automated COSMIC Function Point measurement using a requirements engineering ontology</u></a>
52	2014	<a href="#"><u>Agile requirements engineering via paraconsistent reasoning</u></a>
53	2014	<a href="#"><u>Towards Collaborative Requirements Engineering Tool for ERP Product Customization</u></a>
54	2014	<a href="#"><u>The NASA automated requirements measurement tool: a reconstruction</u></a>
55	2008	<a href="#"><u>ReSeT : Reverse Engineering System Requirements Tool</u></a>
56	2010	<a href="#"><u>Towards tool-Support for usable Secure Requirements engineering with CAIRIS</u></a>
57	2016	<a href="#"><u>A novel requirements engineering approach for designing data warehouses</u></a>

58	2018	<a href="#"><u>Automated support to capture verbal just-in-time requirements via audio mining and cluster-based visualization</u></a>
59	2006	<a href="#"><u>An XML environment for scenario based requirements engineering</u></a>
60	2018	<a href="#"><u>Introducing TRAILS: A tool supporting traceability, integration and visualisation of engineering knowledge for product service systems development</u></a>
61	2018	<a href="#"><u>Early validation of system requirements and design through correctness-by-construction</u></a>
62	2005	<a href="#"><u>Scenario advisor tool for requirements engineering</u></a>
63	2013	<a href="#"><u>REUBI: A Requirements Engineering method for ubiquitous systems</u></a>
64	2014	<a href="#"><u>Security Requirements Engineering with STS-Tool</u></a>
65	2014	<a href="#"><u>From requirements to UML models and back: how automatic processing of text can support requirements engineering</u></a>
66	2005	<a href="#"><u>Model-Based Requirements Engineering with AutoRAID</u></a>
67	2013	<a href="#"><u>KBRE: a framework for knowledge-based requirements engineering</u></a>
68	2010	<a href="#"><u>MUSTER: A Situational Tool for Requirements Elicitation</u></a>
69	2007	<a href="#"><u>Tool support for computer-aided requirement traceability in architectural design: The case of DesignTrack</u></a>
70	2009	<a href="#"><u>Athena: A collaborative approach to requirements elicitation</u></a>
71	2012	<a href="#"><u>Elicitation of situated values: need for tools to help stakeholders and designers to reflect and communicate</u></a>
72	2015	<a href="#"><u>Web Based Requirement Elicitation Tool</u></a>
73	2013	<a href="#"><u>A tool for data warehouse multidimensional schema design using ontology</u></a>
74	2018	<a href="#"><u>CRESUS-T: A COLLABORATIVE REQUIREMENTS ELICITATION SUPPORT TOOL</u></a>
75	2018	<a href="#"><u>A semi-automated approach for generating natural language requirements documents based on business process models</u></a>
76	2018	<a href="#"><u>Modeling Security and Privacy Requirements: a Use Case-Driven Approach</u></a>

77	2015	<a href="#">Requirements simulation for early validation using Behavior Trees and Datalog</a>
68	2017	<a href="#">REASSURE: Requirements elicitation for adaptive socio-technical systems using repertory grid</a>
69	2006	<a href="#">Supporting use case based requirements engineering</a>
70	2014	<a href="#">Supporting the requirement analysis phase for the development of serious games for children</a>
71	2016	<a href="#">Supporting agent oriented requirement analysis with ontologies</a>
72	2014	<a href="#">A Structured Method for Security Requirements Elicitation concerning the Cloud Computing Domain</a>
73	2006	<a href="#">A practical framework for eliciting and modeling system dependability requirements: Experience from the NASA high dependability computing project</a>
74	2010	<a href="#">Living Requirements Space: An open access tool for enterprise resource planning systems requirements gathering</a>
75	2010	<a href="#">Understanding the human context in requirements elicitation</a>
76	2005	<a href="#">Improving the detection of requirements discordances among stakeholders</a>
77	2014	<a href="#">Requirements engineering education: a systematic mapping study</a>
78	2010	<a href="#">Eliciting security requirements and tracing them to design: an integration of Common Criteria, heuristics, and UMLsec</a>
79	2017	<a href="#">Using the AMAN-DA method to generate security requirements: a case study in the maritime domain</a>
80	2016	<a href="#">Managing requirements for the development of a novel elbow rehabilitation device</a>
81	2011	<a href="#">NL-Based Automated Software Requirements Elicitation and Specification</a>
82	2009	<a href="#">Extracting conceptual graphs from Japanese documents for software requirements modeling</a>
83	2008	<a href="#">Computer-aided privacy requirements elicitation technique</a>
84	2010	<a href="#">Enhancing domain knowledge for requirements elicitation with web mining</a>

<b>85</b>	2005	<a href="#"><u>EA-Miner: a tool for automating aspect-oriented requirements identification</u></a>
<b>86</b>	2009	<a href="#"><u>A tool for attributed goal-oriented requirements analysis</u></a>
<b>87</b>	2009	<a href="#"><u>An automated tool for generating UML models from natural language requirements</u></a>
<b>88</b>	2011	<a href="#"><u>Generating essential user interface prototypes to validate requirements</u></a>
<b>89</b>	2010	<a href="#"><u>Tool support for essential use cases to better capture software requirements</u></a>
<b>90</b>	2010	<a href="#"><u>Automatic detection of nocuous coordination ambiguities in natural language requirements</u></a>
<b>91</b>	2017	<a href="#"><u>Tool-supported collaborative requirements prioritisation</u></a>
<b>92</b>	2015	<a href="#"><u>REfine: A gamified platform for participatory requirements engineering</u></a>
<b>93</b>	2012	<a href="#"><u>NLARE, a natural language processing tool for automatic requirements evaluation</u></a>
<b>94</b>	2005	<a href="#"><u>Mining aspects in requirements</u></a>
<b>95</b>	2007	<a href="#"><u>A situational approach and intelligent tool for collaborative requirements elicitation</u></a>
<b>96</b>	2011	<a href="#"><u>Social networks and collaborative filtering for large-scale requirements elicitation</u></a>
<b>97</b>	2011	<a href="#"><u>Ontology-driven guidance for requirements elicitation</u></a>
<b>98</b>	2007	<a href="#"><u>itSIMPLE 2.0: An Integrated Tool for Designing Planning Domains.</u></a>
<b>99</b>	2013	<a href="#"><u>WEBSTUIRE: WEB-based Support Tool for user interface requirements elicitation</u></a>
<b>100</b>	2010	<a href="#"><u>Distributed requirements elicitation using a spatial hypertext wiki</u></a>
<b>101</b>	2011	<a href="#"><u>COLLABORATIVE MIND MAP TOOL TO FACILITATE REQUIREMENT ELICITATION</u></a>
<b>102</b>	2011	<a href="#"><u>StakeSource2. 0: using social networks of stakeholders to identify and prioritise requirements</u></a>
<b>103</b>	2010	<a href="#"><u>End-user requirements blogging with iRequire</u></a>
<b>104</b>	2010	<a href="#"><u>Winbook: a social networking based framework for collaborative requirements elicitation and WinWin negotiations</u></a>
<b>105</b>	2008	<a href="#"><u>Collaborative Development of Knowledge Bases in Distributed Requirements Elicitation.</u></a>



<b>106</b>	2007	<a href="#"><u>An Integrated Tool for Supporting Ontology Driven Requirements Elicitation</u></a>
<b>107</b>	2009	<a href="#"><u>Knowledge-based Requirement-Engineering of building automation systems by means of Semantic Web technologies</u></a>
<b>108</b>	2015	<a href="#"><u>VISPEC: A graphical tool for elicitation of MTL requirements</u></a>
<b>109</b>	2007	<a href="#"><u>Constructing POSE: A Tool for Eliciting Quality Requirements</u></a>
<b>110</b>	2011	<a href="#"><u>OpenOME: An Open-source Goal and Agent-Oriented Model Drawing and Analysis Tool.</u></a>
<b>111</b>	2007	<a href="#"><u>Towards Tool Support for Service-Oriented Development of Embedded Automotive Systems.</u></a>
<b>112</b>	2011	<a href="#"><u>iRequire: Gathering end-user requirements for new apps</u></a>
<b>113</b>	2013	<a href="#"><u>Mira: A tooling-framework to experiment with model-based requirements engineering</u></a>
<b>114</b>	2011	<a href="#"><u>UML4PF—A tool for problem-oriented requirements analysis</u></a>
<b>115</b>	2016	<a href="#"><u>Supporting Requirements Elicitation by Tool-Supported Video Analysis</u></a>
<b>116</b>	2009	<a href="#"><u>Allowing end-users to actively participate within the elicitation of pervasive system requirements through immediate visualization</u></a>
<b>117</b>	2008	<a href="#"><u>Mobile discovery of requirements for context-aware systems</u></a>
<b>118</b>	2011	<a href="#"><u>Supporting requirements engineers in recognising security issues</u></a>
<b>119</b>	2009	<a href="#"><u>Scenarios in the wild: Experiences with a contextual requirements discovery method</u></a>
<b>120</b>	2010	<a href="#"><u>Ambiguity detection: Towards a tool explaining ambiguity sources</u></a>
<b>121</b>	2016	<a href="#"><u>Web-based Collaborative Security Requirements Elicitation</u></a>
<b>122</b>	2012	<a href="#"><u>Pattern-based security requirements specification using ontologies and boilerplates</u></a>
<b>123</b>	2010	<a href="#"><u>A requirements elicitation framework and tool for sourcing business-IT aligned e-services</u></a>
<b>124</b>	2016	<a href="#"><u>Collaborative requirements elicitation using elicitation tool for small projects</u></a>

<b>125</b>	2009	<a href="#">Community Driven Elicitation of Requirements with Entertaining Social Software</a>
<b>126</b>	2009	<a href="#">Ontology-based reasoning in requirements elicitation</a>
<b>127</b>	2006	<a href="#">Performing Requirements Elicitation Activities Supported by Quality Ontologies</a>
<b>128</b>	2005	<a href="#">QuARS: A tool for analyzing requirements</a>
<b>129</b>	2009	<a href="#">Personas based Support Tool for Requirements Elicitation</a>
<b>130</b>	2012	<a href="#">iThink: A Game-Based Approach Towards Improving Collaboration and Participation in Requirement Elicitation</a>
<b>131</b>	2009	<a href="#">Exploring how to use scenarios to discover requirements</a>
<b>132</b>	2007	<a href="#">Determining Stakeholder Needs in the Workplace: How Mobile Technologies Can Help</a>
<b>133</b>	2005	<a href="#">Enhancing GSS-based requirements negotiation with distributed and mobile tools</a>
<b>134</b>	2019	<a href="#">Scade2Nu : A Tool for Verifying Safety Requirements of SCADE Models with Temporal Specifications</a>
<b>135</b>	2019	<a href="#">ReMinds-CMT: An Interactive Tool Supporting Constraint Mining for Requirements Monitoring</a>
<b>136</b>	2019	<a href="#">QuARS A NLP Tool for Requirements Analysis - KSU   Faculty Web</a>
<b>137</b>	2019	<a href="#">Supporting the Selection of Constraints for Requirements Monitoring from Automatically Mined Constraint Candidates</a>
<b>138</b>	2010	<a href="#">Using Mobile RE Tools to Give End-Users Their Own Voice</a>
<b>139</b>	2008	<a href="#">Story Based Mobile Application for Requirements Engineering Process</a>
<b>140</b>	2012	<a href="#">Using mobile devices for collaborative requirements engineering</a>
<b>141</b>	2018	<a href="#">MobiQ : A modular Android application for collecting social interaction ,repeated survey , GPS and photographic data</a>
<b>142</b>	2014	<a href="#">Are smartphones better than CRC cards?</a>

## **2 Further evaluation parameters**

Following Figure 1 and Figure 2 indicate further evaluation parameters we considered in our study.

Tool (* Given names)	Year of first publication	Prototype?	Vision tool?	Accessible	Installable	Updates	Available versions	Requires internet?	Works offline?	Collaborative	Improvements identified?
CT-12	2012	No	No	Yes	Yes	3	3	No	Yes	No	Yes
TRAILS	2018	Yes	No	No	No					Yes	Yes
REV-Light	2018	No	No	Yes	Yes	1	1	No	Yes	No	Yes
SREPLLineTool	2010	Yes	No	No	No					No	Yes
LMLet-REUBI	2013	No	No	Yes	Yes	14	1	No	Yes	No	Yes
I-Safe	2015	No	No	No	No					No	No
EGG (Extended Goal Graph)	2016	Yes	No	No	No					No	Yes
SME (Scenario Model Environment)	2005	Yes	No	No	No					No	Yes
T11* Japanese Prototype Tool	2017	Yes	No	No	No					No	No
REQAnalytics	2016	No	No	No	No					No	No
STS-IQ	2019	Yes	No	Yes	No		1	No	Yes	No	Yes
REPRD	2018	No	No	No	No					No	Yes
RE-KOMBINE	2014	Yes	No	No	No					No	Yes
T2* Requirements Change Management Tool	2017	No	No	No	No					Yes	Yes
Wisdom	2016	No	No	No	No					No	No
JITREvisu	2018	Yes	No	No	No					No	Yes
T3* Tool for ERP product customisation	2014	Yes	No	No; broken link	No					Yes	No
T4* Scenario Advisor Tool	2005	No	No	No	No					No	Yes
ReqSimile	2005	No	No	No	No					No	No
AUTOANoTATOR	2014	Yes	No	No	No					No	Yes
TEAM	2018	Yes	No	Yes	Yes		1	No	Yes	No	Yes
DECIMAL	2005	No	No	No	No					No	Yes
SecTro	2011	No	No	No	No					No	No
reqT	2013	No	No	Yes	Yes	12	12			No	Yes
WebRED	2012	No	No	No; restricted access	No					No	No
TS* Automated Requirements Measurement Tool by NASA	2014	No	No	No; broken link	No					No	No
ST-Tool	2005	No	No	No; broken link	No					No	No
T8* Prototype CASE Tool	2016	Yes	No	No	No					No	No
ElicID	2006	No	No	No	No					No	Yes
MarsmaAIC (earlier: MarsmaAI, MarsmaEssentials)	2010	No	No	No	No					No	Yes
SecTOOL	2006	No	No	No	No					No	No
REHDetector	2013	Yes	No	No; broken link	No					No	Yes
Desiree	2016	Yes	No	Yes	Yes		1	No	Yes	No	Yes
T7* Requirements Specification Analysis Tool	2016	No	No	No	No					No	No
SODA	2013	Yes	No	No	No					No	No
SecMER	2011	No	No	No	No					No	Yes
RECOMA (REquirements COnflicts MAnagement Tool)	2005	No	No	No	No					No	No
NATZTEST	2015	No	No	Yes	No; No machine available to fulfill system requirements					No	No

Fig. 1: Further evaluation parameters- 1

Tool (Given names)	Evaluation	Real project evaluation	Type of Evaluation?	Intended audience	Technologies used	Capabilities?
CT12	Yes	No	student evaluation	requirements engineers	Microsoft Visual Studio	refine existing requirements
TRAILS	Yes	Yes	industry evaluation	All	RDF, RDF/XML, HTTP, Apache Jena	reduce the cost/efforts of the process
REV-Light	Yes	No	controlled experiment, student evaluation	requirements engineers	PHP, Bootstrap, D3.js, REST API, HTML, CSS, JS	reduce the cost/efforts of the process
SREPLineTool	Yes	Yes	industry evaluation	requirements engineers	XML	reduce the cost/efforts of the process
UMLet-REUII	Yes	Yes	controlled experiment	requirements engineers	Java	reduce the cost/efforts of the process
I-SaE	No			requirements engineers		reduce the cost/efforts of the process
EGG (Extended Goal Graph)	Yes	Yes	controlled experiment	Project Stakeholders	Microsoft Excel, VBA	Generate new requirements
SME (Scenario Model Environment)	Yes	Yes	industry evaluation	requirements engineers	XML, Java, Stylesheet Language, Apache Tomcat	refine existing requirements
T1* Japanese Prototype Tool	No			requirements engineers	Java, Eclipse 4.4 Luna	refine existing requirements
REQAnalytics	Yes	Yes	industry evaluation	requirements engineers	PHP, MySQL, HTML, XML	Generate new requirements; refine existing requirements
STS-IQ	Yes	Yes	industry evaluation, controlled experiment	requirements engineers	Java, Eclipse Sirius, Eclipse Acceleo	refine existing requirements
REPD	Yes	Yes	industry evaluation	requirements engineers		reduce the cost/efforts of the process
RE-KOMBINE	Yes	Yes	industry evaluation	requirements engineers		refine existing requirements
T2* Requirements Change Management Tool	Yes	No	expert evaluation	Project Stakeholders	Microsoft SQL server database	reduce the cost/efforts of the process
Wisdom	Yes	Yes	controlled experiment	requirements engineers	Java, Oracle Database	refine existing requirements
JITREvisu	No			All	Java	refine existing requirements
T3* Tool for ERP product customisation	No			All		refine existing requirements
T4* Scenario Advisor Tool	Yes	No	expert evaluation	requirements engineers	HTML	Generate new requirements
ReqSimile	Yes	No	student evaluation	requirements engineers		reduce the cost/efforts of the process
AUTOANOTATOR	Yes	No	student evaluation	requirements engineers		reduce the cost/efforts of the process
TEAM	Yes	No	industry evaluation, expert evaluation	requirements engineers	ArchMate, Microsoft SQL Server 2012	refine existing requirements
DECIMAL	Yes	Yes	industry evaluation	requirements engineers	SQL, XML	reduce the cost/efforts of the process
SecTrio	Yes	Yes	industry evaluation, student evaluation	requirements engineers	Java	reduce the cost/efforts of the process
reqT	Yes	No	student evaluation	requirements engineers	Java Virtual Machine, HTML, Scala	refine existing requirements
WebRED	No			requirements engineers	Eclipse Modeling Framework (EMF) and Graphical Modeling Framework (GMF)	reduce the cost/efforts of the process
Automated Requirements Measurement Tool by NASA	TS*	Yes	Yes	controlled experiment	requirements engineers	reduce the cost/efforts of the process
ST-Tool	No			requirements engineers	XML	refine existing requirements
Prototype CASE Tools	T6*	No		requirements engineers	Java	refine existing requirements
Elicio	Yes	Yes	industry evaluation	project Stakeholders & requirements engineers	Protégé API	reduce the cost/efforts of the process
MaramaAIC (earlier: MaramaAI, MaramaEssential)	Yes	Yes	expert evaluation	requirements engineers	Java, Eclipse, HTML, MS Access database	Generate new requirements; refine existing requirements; reduce the cost/efforts of the process
SecTOOL	No			requirements engineers	VPL, XACML	Generate new requirements; refine existing requirements
REInDetector	Yes	No	industry evaluation	requirements engineers	Java, JUNG library	Generate new requirements; refine existing requirements
Desiree	Yes	No	controlled experiment	requirements engineers	Eclipse, .xlsx	refine existing requirements
Requirements Specification Analysis Tool	T7*	Yes	No	controlled experiment	requirements engineers	reduce the cost/efforts of the process
SODA	Yes	No	student evaluation	project Stakeholders & requirements engineers		refine existing requirements
SecCMER	Yes	No	expert evaluation	requirements engineers	Eclipse, Java, GMF, Xtext, EMF	refine existing requirements; reduce the cost/efforts of the process
RECOMA (Requirements Conflicts Management Tool)	No			requirements engineers	Java, JDK 1.4.0_02	reduce the cost/efforts of the process
NATZTEST	No			requirements engineers	Java, Eclipse	reduce the cost/efforts of the process

Fig. 2: Further evaluation parameters- 2