**Work plan – Installation Research Projects**

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| Proposal’s title: | Croatian Metaphor Repository |
| Principal investigator: | Kristina Štrkalj Despot |
| Starting date: | 01/09/2014 |
| Finishing date: | 01/09/2017 |

**Please fill the table according to suggested fields! Add as many lines as necessary wherever necessary (eg. for “activity” column).**

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| **Objectives** | **Week** | **Activities** | **Outputs – Milestones (M) and/or**  **Deliverables (D)** | **Team members** | **Duration of activity (from-to, in months)** |
| **FIRST PROJECT YEAR** | | | | | |
| **1. Project management** | 1 | 1. Introductory working meeting attended by all project team members;  2. Detailed distribution of responsibilities and tasks for the first month; | **D1: A detailed work plan** | All team members | **0** |
| **1. Project management** | 1 | 3.Buying the equipment | 2. equipment | PI |  |
| **1. Project management** | 1 | ▪ Signing a 1 month contract with 2 technicians (programmers) (to check if they can answer the project task) | 3. Contract with 2 technicians (programmers) | PI |  |
| **2. Building Croatian Metaphor Repository (CMR) framework**  (based on web2py tools,  <http://www.web2py.com/>)  (which will serve as a web site of the project as well) | 2      2    3 | ▪ Meeting with computational linguistic team, defining first activities towards building M4fw  ▪ Starting to construct Croatian Metaphor Repository framework (M4fw) using web2py tools | 4. A detailed plan on the first tasks in building M4fw | Computational team members  (PI + Essert, Nahod, and two programmers)  **Dr. Mario Essert** and two technicians (computational experts)  Dr. Kristina Štrkalj Despot i  Dr. Mario Brdar (linguists) | **1–3** |
| **2. Building Croatian Metaphor Repository (CMR) framework**  (based on web2py tools,  <http://www.web2py.com/>)  (which will serve as a web site of the project as well) | 9-12 | ▪ Creating general web input forms for metaphors, schemas and relations | **M1:** Database for entering metaphors  **M2:** Database for entering image schemas  **M3:** Relations in databases: Metaphor Families, Metaphors by Type, Schema Families, Cogs and Frames, Graph of Relations, Metaphor Glossary  **D2: Croatian Metaphor Wiki** | Computational team members  (**Essert**, Despot Nahod, and two programmers) |  |
| **3. Developing tools for automatic metaphor detection, identifying metaphorical word use and automatic extraction of linguistic metaphors** | 13 | 1. The identification of new features that are useful for metaphor identification: topic models,  abstractness/concreteness, and semantic classifications based on ontology  2. The Construction of the triple store in the M4fw using open server Virtuoso  3. SparQL and Python programming for metaphor data processing  4. The visualization of metaphors by graphs using Processing JS tools  5. The Construction of the linked data metaphor repository based on the RDF/OWL format  6. The Creation of the semi-automation Python programs for the extraction of metaphors from texts  7. Searching and sorting metaphor results | **D6:** New features that are useful for metaphor identification: topic models,  abstractness/concreteness, and semantic classifications based on ontology identified | **Dr. Mario Essert**  And the computational team | **3–36** |
| **4. Educating early stage researchers in team in the: conceptual metaphor theory, neural theory of language and thought, basics of Python programming** | 1-12 | ▪ Collecting the database of relevant literature and making it available to all team members  ▪ 2-lectures-seminar by Brdar (Introduction to cognitive linguistic approach to figurative language) for all team members  ▪ 3-lectures-seminar by Despot (Introduction to NTLT and MetaNet project methodology)  ▪ Seminar by Essert on Python for linguists –basics (duration 1-3 lectures) | **D7:** Bibliography and adatabase of a literature relevant to the project  **D8:** Power Point presentations from seminars held by Brdar, Despot and Essert | Seminars held by **Brdar, Despot and Essert**  (Attendants: all team members) | **1-3** |
| 5. Description and the analysis of the **Event Structure Metaphor** in the Croatian Language | 12-14  14-18  14-24  14-32  26-32  24-32  32 | ▪ Theoretical research of the Event Structure Metaphor Family  ▪ Corpus based research of Event Structure Metaphors in the Croatian Language  ▪ Experimental psychological research on Event Structure Metaphors  ▪ Filling the database with metaphors in this family and subfamilies  ▪ Writing an article on Event Structure Metaphors in the Croatian Language  ▪ Link experiment results to appropriate metaphors in the Wiki  Presentation of the research of Event Structure Metaphors at a conference, seminar, or at a public lecture at one of the institutions involved in the project and at a RaAM Conference | **M4:** Database filled with Location Event Structure metaphors, corresponding schemas and frames  **4. M4:** Database filled with Object Event Structure Metaphors, corresponding schemas and frames  **D9: Wiki Page with the link to Event Structure Metaphor Family, two subfamilies (Location and Object Event Structure) and all the conceptual metaphors in this family and experiments**  **D10:** Team’s joint **scientific paper** on the Event Structure Metaphor in the Croatian Language (with experiment description and results as well) and possibly in comparison to other languages (published in an international journal) | **Activities manager**:  Dr. Kristina Štrkalj Despot  **Linguistic analysis Adviser**:  Dr. Mario Brdar  **Computational support:**  Prof. dr. Mario Essert  **Linguistic analysis team:**  Benedikt Perak  Ana Ostroški Anić  Bruno Nahod  **Psychologist** **and experimental part manager:**  Dr. Mirjana Tonković | **3–8** |
| 1. **Project management** | 32 | 2. Measuring ongoing project activities (handing in reports after each objective is achieved)  3. Monitoring project variables (cost, effort, scope, etc.) against the project management plan and the project performance baseline  4. Corrective actions to properly address issues and risks | **D11: Report after the first big objective is achieved (EVENT STRUCTURE METAPHOR)** | **Dr. Kristina Štrkalj Despot (PI)** | **1-36** |
| 6. Description and the analysis of  **Mind Metaphors**  in the Croatian Language | 32-34  34-38  38-48  38-48  41-47  40-48  46-48 | ▪ Theoretical research of the Mind Metaphor and its two subfamilies (Conduit Metaphor and Thought as Language Metaphor)  ▪ Corpus based research of Mind Metaphors in the Croatian Language in a diachronic perspective  ▪ Experimental psychological research on Mind Metaphors  ▪ Filling the database with metaphors in this family and subfamilies  ▪ Writing an article on Mind Metaphors in the Croatian Language (in a diachronic perspective)  ▪ Link experiment results to appropriate metaphors in the Wiki  ▪ Presentation of the research of Mind Metaphors at a conference, seminar, or at a public lecture at one of the Institutions involved in the project | **M5:** Database filled with Mind metaphors (Conduit metaphor subfamily), corresponding schemas and frames  **M6:** Database filled with Mind  Metaphors (Thought as Language subfamily), corresponding schemas and frames  **D12: Wiki Page with the links to Event Structure Metaphor and Mind Metaphors (with subfamilies and all corresponding conceptual and linguistic metaphors)**  **D13:** **Scientific paper** on Mind Metaphors in the Croatian Language in a diachronic perspective **D14** (with experiments description and results as well) published in an international journal | **Activities manager**:  Dr. Kristina Štrkalj Despot  **Linguistic analysis Adviser**:  Dr. Mario Brdar  **Computational support:**  Dr. Mario Essert  **Linguistic analysis team:**  Benedikt Perak  Ana Ostroški Anić  Bruno Nahod  **Psychologist** **and experimental part manager:**  Dr. Mirjana Tonković | **8-12** |
| **3. Developing tools for automatic metaphor detection, identifying metaphorical word use and automatic extraction of linguistic metaphors** | 13-48 | 1. The identification of new features that are useful for metaphor identification: topic models,  abstractness/concreteness, and semantic classifications based on ontology  2. The Construction of the triple store in the M4fw using open server Virtuoso  3. SparQL and Python programming for metaphor data processing  4. The visualization of metaphors by graphs using Processing JS tools  5. The Construction of the linked data metaphor repository based on the RDF/OWL format  6. The Creation of the semi-automation Python programs for the extraction of metaphors from texts  7. Searching and sorting metaphor results | **D:** Triple store in the M4fw using open server Virtuoso constructed | **Dr. Mario Essert**  And the computational team | **3–36** |
| **1. Project management** | 48 | 2. Measuring ongoing project activities (handing in reports after each objective is achieved)  3. Monitoring project variables (cost, effort, scope, etc.) against the project management plan and the project performance baseline  4. Corrective actions to properly address issues and risks | **D15: Report after the second big objective is achieved (MIND metaphors)** | **Dr. Kristina Štrkalj Despot (PI)** | **1-36** |
| **7. Opening the Wiki page to a free Internet access** | 46-48 | **Opening of the Wiki page to free Internet access** | **D16: Opening of the Wiki page to free Internet access** | Dr. Mario Essert | **12** |
| **Improving and adapting the CMR Framework** to project needs and results. | 46-48 |  | **CMR Framework adapted** | Computational team |  |
| **SECOND PROJECT YEAR** | | | | | |
| Cognitive Linguistic Metaphor Seminar: *Building Metaphor Repositories: Methods, Risks and Challenges* |  | 1. Gathering a small number of the top cognitive linguists in the world (whose main research interest involves conceptual metaphor and metonymy theory and/or neural theory of language) and a small number of excellent students and young researchers specialized in the field of cognitive linguistics at a small, interactive and productive series of lectures and discussions  2. Creating a list of participants, accepting topic proposals and other activities related to the organization of a seminar. | Cognitive Linguistic Metaphor Seminar: *Building Metaphor Repositories: Methods, Risks and Challenges*  **D: Proceedings (publisher TBD)** | All team members will be members of the Organizing Committee  (President TBD) | **13th** |
| Description and the analysis of  **Economics Metaphors Governance Metaphors, Well-Being Metaphors**  in the Croatian Language |  | 1. Theoretical research of Economics Metaphors Governance Metaphors and Well-Being Metaphors  2. Corpus based research of Economics Metaphors Governance Metaphors and Well-Being Metaphors in the Croatian Language  3. Experimental psychological research on Well Being Metaphors  4. Filling the database with metaphors in this family and subfamilies  5. Link experiment results to appropriate metaphors in the Wiki  6. Presentation of the research of Economics Metaphors Governance Metaphors and Well-Being Metaphors at a conference, seminar, or at a public lecture at one of the institutions involved in the project | **M1:** Database filled with Economics Metaphors  **M2**: Database filled with Governance Metaphors  **M3**: Database filled with Well-Being Metaphors (corresponding schemas and frames)  **D1: Wiki Page with links to these Metaphor families: Event Structure, Mind, Economics, Governance, Well-Being** | **Activities manager**:  Dr. Mario Brdar  **Linguistic analysis Adviser**:  Dr. Mario Brdar  **Computational support:**  Dr. Mario Essert  **Linguistic analysis team:**  Dr. Kristina Štrkalj Despot  Benedikt Perak  Ana Ostroški Anić  Bruno Nahod  **Psychologist** **and experimental part manager:**  Dr. Mirjana Tonković | **13-17** |
| **Developing tools for automatic metaphor detection, identifying metaphorical word use and automatic extraction of linguistic metaphors** |  | 1. The identification of new features that are useful for metaphor identification: topic models,  abstractness/concreteness, and semantic classifications based on ontology  2. The Construction of the triple store in the M4fw using open server Virtuoso  3. SparQL and Python programming for metaphor data processing  4. The visualization of metaphors by graphs using Processing JS tools  5. The Construction of the linked data metaphor repository based on the RDF/OWL format  6. The Creation of the semi-automation Python programs for the extraction of metaphors from texts  7. Searching and sorting metaphor results | **D:** Metaphors visualized by graphs using Processing JS tools | **Dr. Mario Essert**  And the computational team | **3–36** |
| **Project management** |  | 2. Measuring ongoing project activities (handing in reports after each objective is achieved)  3. Monitoring project variables (cost, effort, scope, etc.) against the project management plan and the project performance baseline  4. Corrective actions to properly address issues and risks | **D: Report after the third big objective is achieved (Economics, Governance, Well-Being)** | **Dr. Kristina Štrkalj Despot (PI)** | **1-36** |
| Description and the analysis of  **Time Metaphors**  in the Croatian Language |  | 1. Theoretical research of TimeMetaphors  2. Corpus based research of Time Metaphors in the Croatian Language  3. Experimental psychological research on Time Metaphors  4. Filling the database with metaphors in this family and subfamilies  5. Writing an article on the Conceptualization of Time in the Croatian Language  6. Link experiment results to appropriate metaphors in the Wiki  7. Presentation of the research of Time Metaphors at a conference, seminar, or at a public lecture at one of the institutions involved in the project | **M1:** Database filled with Time metaphors, corresponding schemas and frames  **D1: Wiki Page with links to these Metaphor families: Event Structure, Mind, Economics, Governance, Well-Being, Time**  **D2:** Team’s joint **scientific paper** on the Conceptualization of Time in the Croatian Language (with experiment description and results as well) and possibly in comparison to other languages (published in an international journal) | **Activities manager**:  Dr. Mirjana Tonković  **Linguistic analyisis Adviser**:  Dr. Mario Brdar  **Computational support:**  Dr. Mario Essert  **Linguistic analysis team:**  Dr. Kristina Štrkalj Despot  Benedikt Perak  Bruno Nahod  Ana Ostroški Anić  **Psychologist** **and experimental part manager:**  Dr. Mirjana Tonković | **17-22** |
| **Project management** |  | 2. Measuring ongoing project activities (handing in reports after each objective is achieved)  3. Monitoring project variables (cost, effort, scope, etc.) against the project management plan and the project performance baseline  4. Corrective actions to properly address issues and risks | **D: Report after the forth big objective is achieved (TIME metaphors)** | **Dr. Kristina Štrkalj Despot (PI)** | **1-36** |
| Description and the analysis of  **Morality Metaphors**  in the Croatian Language |  | 1. Theoretical research of Morality Metaphors  2. Corpus based research of Morality Metaphors in the Croatian Language  3. Experimental psychological research on Morality Metaphors  4. Filling the database with metaphors in this family and subfamilies  5. Writing an article on Moral Accounting in the Croatian Language  6. Link experiment results to appropriate metaphors in the Wiki  7. Presentation of the research of Morality Metaphors at a conference, seminar, or at a public lecture at one of the Institutions involved in the project | **M1:** Database filled with Morality metaphors, corresponding schemas and frames  **D1: Wiki Page with links to these Metaphor families: Event Structure, Mind, Economics, Governance, Well-Being, Time, Morality**  **D2:** Team’s joint **scientific paper** on Moral Accounting in the Croatian Language (with experiment description and results as well) and possibly in comparison to other languages (published in an international journal) | **Activities manager**: Benedikt Perak  **Linguistic analyisis Adviser**:  Dr. Mario Brdar  **Computational support:**  Dr. Mario Essert  **Linguistic analysis team:**  Dr. Kristina Štrkalj Despot  Ana Ostroški Anić  Bruno Nahod  **Psychologist** **and experimental part manager:**  Dr. sc. Mirjana Tonković | **22-24** |
| **Project management** |  | 2. Measuring ongoing project activities (handing in reports after each objective is achieved)  3. Monitoring project variables (cost, effort, scope, etc.) against the project management plan and the project performance baseline  4. Corrective actions to properly address issues and risks | **D: Report after the fifth big objective is achieved (MORALITY metaphrs)** | **Dr. Kristina Štrkalj Despot (PI)** | **1-36** |
| **THIRD PROJECT YEAR** | | | | | |
| Description and the analysis of  **Emotion Metaphors**  in the Croatian Language |  | 1. Theoretical research of Emotion Metaphors  2. Corpus based research of Emotion Metaphors in the Croatian Language  3. Experimental psychological research on Emotion Metaphors  4. Filling the database with metaphors in this family and subfamilies  5. Writing an article on the Conceptualization of Emotions in the Croatian Language  6. Link experiment results to appropriate metaphors in the Wiki  7. Presentation of the research of Emotion Metaphors at a conference, seminar, or at a public lecture at one of the institutions involved in the project | **M1:** Database filled with Emotion metaphors, corresponding schemas and frames  **D1: Wiki Page with links to these Metaphor families: Event Structure, Mind, Economics, Governance, Well-Being, Time, Morality, Emotions**  **D2:** Team’s joint **scientific paper** on the Conceptualization of Emotions (in general or of a particular emotion) in the Croatian Language (with experiment description and results as well) and possibly in comparison to other languages (published in an international journal) | **Activities manager**: Benedikt Perak  **Linguistic analyisis Adviser**:  Prof. dr. Mario Brdar  **Computational support:**  Prof. dr. Mario Essert  **Linguistic analysis team:**  Dr. sc. Kristina Štrkalj Despot  Ana Ostroški Anić  Bruno Nahod  **Psychologist** **and experimental part manager:**  Dr. Mirjana Tonković | **25 - 31** |
| **Project management** |  | 2. Measuring ongoing project activities (handing in reports after each objective is achieved)  3. Monitoring project variables (cost, effort, scope, etc.) against the project management plan and the project performance baseline  4. Corrective actions to properly address issues and risks | **D: Report after the sixth big objective is achieved (EMOTION metaphrs)** | **Dr. Kristina Štrkalj Despot (PI)** | **1-36** |
| Description and the analysis of  **Cascade Metaphors**  in the Croatian Language |  | 1. Theoretical research of Cascade Metaphors  2. Corpus based research of Cascade Metaphors in the Croatian Language  3. Filling the database with metaphors in this family and subfamilies | **M1:** Database filled with Cascade metaphors, corresponding schemas and frames  **D1: Wiki Page with links to these Metaphor families: Event Structure, Mind, Economics, Governance, Well-Being, Time, Morality, Emotions, Cascade Metaphors** | **Activities manager**:  Bruno Nahod  **Linguistic analyisis Adviser**:  Dr. Mario Brdar  **Computational support:**  Dr. Mario Essert  **Linguistic analysis team:**  Dr. Kristina Štrkalj Despot  Benedikt Perak  Ana Ostroški Anić | **31-33** |
| Description and the analysis of  **Scalar Metaphors**  in the Croatian Language |  | 1. Theoretical research of Scalar Metaphors  2. Corpus based research of Scalar Metaphors in the Croatian Language  3. Filling the database with metaphors in this family and subfamilies | **M1:** Database filled with Cascade metaphors, corresponding schemas and frames  **D1: Wiki Page with links to these Metaphor families: Event Structure, Mind, Economics, Governance, Well-Being, Time, Morality, Emotions, Cascade Metaphors, Scalar Metaphors, with many examples to all these, with relations and descriptions and graphs.** | **Activities manager**:  Ana Ostroški Anić  **Linguistic analysis Adviser**:  Dr. Mario Brdar  **Computational support:**  Dr. Mario Essert  **Linguistic analysis team:**  Dr. Kristina Štrkalj Despot  Benedikt Perak  Bruno Nahod  **Psychologist** **and experimental part manager:**  Dr. Mirjana Tonković | **33-36** |
| **Developing tools for automatic metaphor detection, identifying metaphorical word use and automatic extraction of linguistic metaphors** |  | 1. The identification of new features that are useful for metaphor identification: topic models,  abstractness/concreteness, and semantic classifications based on ontology  2. The Construction of the triple store in the M4fw using open server Virtuoso  3. SparQL and Python programming for metaphor data processing  4. The visualization of metaphors by graphs using Processing JS tools  5. The Construction of the linked data metaphor repository based on the RDF/OWL format  6. The Creation of the semi-automation Python programs for the extraction of metaphors from texts  7. Searching and sorting metaphor results | **D1:** linked data metaphor repository based on the RDF/OWL format  **D2:** semi-automation Python programs for the extraction of metaphors from texts | **Dr. Mario Essert**  And the computational team | **3–36** |
| **Symposium**  ***Metaphor in Natural Language Processing and Artificial Intelligence*** |  | 1. Creating a list of participants, accepting topic proposals and other activities related to the organization of a symposium. | **Symposium**  ***Metaphor in Natural Language Processing and Artificial Intelligence***  **D: Proceedings** | All team members will be members of the Organizing committee  (President TBD) | **30th-33rd**  **(organization)**  **34th**  **(Symposium)** |
| **Project management** |  | 1. Final team members meeting  2. Project closing and final report writing  3. Project maintenance after the contract closure (Continuing support of end-users, enriching the database constantly, especially in other metaphor families and other modalities, updates of the software over time) | **D1: Final report**  **D:** Database constantly, updated | **Dr. Kristina Štrkalj Despot (PI)** | **36-** |