

# Dissertation

Dissertation\_All\_Active\_Current\_07.21.2015 (Reference from 2013.(07.01.13))

Column 1

## ▼ Dissertation

### ▼ Dissertation Glossary: G. Rincon (Updated - 07.01.13)

#### ▼ Acoustics: Sonic (Waves):

##### ▶ Acoustics:

##### ▶ Psychoacoustics:

[en.wikipedia.org—Acoustics](http://en.wikipedia.org—Acoustics)

[en.wikipedia.org—Psychoacoustics](http://en.wikipedia.org—Psychoacoustics)

[en.wikipedia.org—Aesthetics](http://en.wikipedia.org—Aesthetics)

#### ▼ Aesthetics

##### ▶ Aesthetics:

##### ▶ Etymology:

#### ▼ Affect:

- **Affect** conveys influence over something that already exists

[en.wiktionary.org—affect](http://en.wiktionary.org—affect)

#### ▼ Algorithms:

##### ▶ Algorithms:

##### ▶ Cellular Potts Model

##### ▶ Monte Carlo Method:

[en.wikipedia.org—Algorithms](http://en.wikipedia.org—Algorithms)

[en.wikipedia.org—Cellular\\_Potts\\_model](http://en.wikipedia.org—Cellular_Potts_model)

[en.wikipedia.org—Monte\\_Carlo\\_method](http://en.wikipedia.org—Monte_Carlo_method)

[en.wikipedia.org—Analysis](http://en.wikipedia.org—Analysis)

#### ▼ Analysis:

##### ▶ Analysis:

##### ▶ Scientific Method:

##### ▶ Models of Scientific Inquiry:

- Additional Reference:

[en.wikipedia.org—Scientific\\_method](http://en.wikipedia.org—Scientific_method)

[en.wikipedia.org—Models\\_of\\_scientific\\_inquiry](http://en.wikipedia.org—Models_of_scientific_inquiry)

[plato.stanford.edu—analysis](http://plato.stanford.edu—analysis)

[en.wikipedia.org—Architecture](http://en.wikipedia.org—Architecture)

#### ▼ Architecture:

##### ▶ Summary:

[en.wikipedia.org—Art](http://en.wikipedia.org—Art)

#### ▼ Art:

##### ▶ Art:

#### ▼ Artificial :

##### ▼ Artificial:

##### ▶ Etymology:

- Definition:

[en.wikipedia.org—Artificial\\_\(disambiguation\)](http://en.wikipedia.org—Artificial_(disambiguation))

[en.wiktionary.org—artificial](http://en.wiktionary.org—artificial)

[www.merriam-webster.com—artificial](http://www.merriam-webster.com—artificial)

[en.wikipedia.org—Artificial\\_chemistry](http://en.wikipedia.org—Artificial_chemistry)

#### ▼ Artificial Chemistry

##### ▶ Artificial Chemistry

- Artificial Ecologies: (see artificial & ecology)

#### ▶ Artificial Intelligence:

[en.wikipedia.org—Artificial\\_intelligence](http://en.wikipedia.org—Artificial_intelligence)

#### ▼ Augmented Reality:

##### ▶ Augmented Reality:

[en.wikipedia.org—Augmented\\_reality](http://en.wikipedia.org—Augmented_reality)

#### ▼ Behavior:

##### ▶ Behavior:

[en.wikipedia.org—Behavior](http://en.wikipedia.org—Behavior)

#### ▶ Behavioral Models:

[en.wikipedia.org—Behavioral\\_modeling](http://en.wikipedia.org—Behavioral_modeling)

#### ▼ Biology:

##### ▶ Biology:

##### ▶ Foundations of Modern Biology:

##### ▶ Research:

[en.wikipedia.org—Biology](http://en.wikipedia.org—Biology)

#### ▼ Chemistry:

##### ▶ Chemistry:

##### ▶ Etymology:

##### ▶ Definition:

##### ▶ Principles of Modern Chemistry:

[en.wikipedia.org—Chemistry](http://en.wikipedia.org—Chemistry)

#### ▼ Cognitive Psychology:

##### ▶ Cognitive Psychology:

##### ▼ Experimental Psychology:

##### ▶ Experimental Psychology:

##### ▶ Alternative Resources

[en.wikipedia.org—Cognitive\\_psychology](http://en.wikipedia.org—Cognitive_psychology)

[en.wikipedia.org—Experimental\\_psychology](http://en.wikipedia.org—Experimental_psychology)

#### ▼ Complexity:

##### ▶ Definition:

##### ▼ Complex Systems:

##### ▶ Complex Systems:

##### ▶ Topics:

##### ▶ Emergence:

##### ▶ Self Organization:

##### ▶ Evolution:

[en.wikipedia.org—Complexity](http://en.wikipedia.org—Complexity)

[en.wikipedia.org—Complex\\_systems\\_theory](http://en.wikipedia.org—Complex_systems_theory)

[en.wikipedia.org—Self-Organization](http://en.wikipedia.org—Self-Organization)

#### ▼ Composition: (Language)

##### ▶ Summary:

[en.wikipedia.org—Composition\\_\(language\)](http://en.wikipedia.org—Composition_(language))

#### ▼ Composition: (Visual Arts)

##### ▶ Summary:

##### ▶ Elements of design:

##### ▶ Principle of organization:

##### ▶ Compositional Techniques

[en.wikipedia.org—Composition\\_\(visual\\_arts\)](http://en.wikipedia.org—Composition_(visual_arts))

- ▼  Computation:
  - ▶  Summary: [en.wikipedia.org—Computation](http://en.wikipedia.org—Computation)
  - ▼  Computing: [en.wikipedia.org—Computing](http://en.wikipedia.org—Computing)
    - ▶  Summary:
    - ▶  Definitions:
    - ▶  History:
    - ▶  Computer:
    - ▶  Sub-disciplines of computing:
- Computational (Syntax): (see computation & syntax)
- ▼  Computational Biology [en.wikipedia.org—Computational\\_biology](http://en.wikipedia.org—Computational_biology)
  - ▶  Summary:
  - ▶  Introduction:
  - ▶  Subfields
- ▼  Computational Chemistry [en.wikipedia.org—Computational\\_chemistry](http://en.wikipedia.org—Computational_chemistry)
  - ▶  Computational Chemistry:
  - ▶  History:
  - ▶  Fields of Application:
  - ▶  Accuracy:
  - ▶  Methods:
  - ▶  Interpreting Molecular Wave Functions:
  - ▶  Software Packages:
  - ▶  Specialized Journals on Computational Chemistry:
- ▼  Computer Science: [en.wikipedia.org—Computer\\_science](http://en.wikipedia.org—Computer_science)
  - ▶  Summary:
  - ▶  History:
  - ▶  Philosophy:
  - ▶  Areas of Computer Science:
- ▼  Construction: [Constructing] [en.wikipedia.org—Construction](http://en.wikipedia.org—Construction)
  - ▶  Summary:
- ▼  Data Collection: [en.wikipedia.org—Data\\_collection](http://en.wikipedia.org—Data_collection)
  - ▶  Summary:
  - ▶  Other:
  - ▶  Types:
    - User Studies: [en.wikipedia.org—Diary\\_studies\\_in\\_User\\_Research](http://en.wikipedia.org—Diary_studies_in_User_Research)
    - Survey methodology: [en.wikipedia.org—Statistical\\_survey](http://en.wikipedia.org—Statistical_survey)
    - Observational study: [en.wikipedia.org—Observational\\_study](http://en.wikipedia.org—Observational_study)
    - Quantification: [en.wikipedia.org—Quantification](http://en.wikipedia.org—Quantification)
    - Sampling (statistics): [en.wikipedia.org—Sampling\\_\(statistics\)](http://en.wikipedia.org—Sampling_(statistics))
    - Usability Testing: [en.wikipedia.org—Usability\\_testing](http://en.wikipedia.org—Usability_testing)
- ▼  Documentation: [en.wikipedia.org—Documentation](http://en.wikipedia.org—Documentation)
  - ▼  Evidence: [en.wikipedia.org—Evidence](http://en.wikipedia.org—Evidence)
    - ▶  Summary:
    - ▶  Types of Evidence:
    - ▶  In Science:
    - ▶  Additional Research:
      - Additional Reference: [plato.stanford.edu—evidence](http://plato.stanford.edu—evidence)
- ▼  Ecology: [plato.stanford.edu—ecology](http://plato.stanford.edu—ecology)
  - Summary: [en.wikipedia.org—Ecology](http://en.wikipedia.org—Ecology)
  - Additional Reference:
- ▼  Effects: [en.wiktionary.org—effect](http://en.wiktionary.org—effect)
  - Additional Resource: [en.wikipedia.org—Effect](http://en.wikipedia.org—Effect)
- ▼  Electronic Music: [en.wikipedia.org—Electronic\\_music](http://en.wikipedia.org—Electronic_music)
  - ▶  Summary:
- ▼  Engineering: (further research is required) [en.wikipedia.org—Engineering](http://en.wikipedia.org—Engineering)
  - ▶  Summary:
- ▼  Evolution: [en.wikipedia.org—Evolution](http://en.wikipedia.org—Evolution)
  - ▶  Summary:
  - ▶  Introduction: [en.wikipedia.org—Introduction\\_to\\_evolution](http://en.wikipedia.org—Introduction_to_evolution)
- ▼  Evolutionary Developmental Biology: [en.wikipedia.org—Evodevyn](http://en.wikipedia.org—Evodevyn)
  - ▶  Summary:
  - ▶  Basic principles:
  - ▶  History:
  - ▶  The developmental-genetic toolkit
  - ▶  Development and the origin of novelty:
- Evolutionary Mechanisms: (see: evolution)

- Fabrication: (further research is required) [en.wikipedia.org—Fabrication](http://en.wikipedia.org—Fabrication)
- Four-dimensional space (see: mathematics) [en.wikipedia.org—Four-dimensional\\_space](http://en.wikipedia.org—Four-dimensional_space)
- Geometric Language: (see: mathematics)
- ▼  HCI (Human Computer Interaction): [participatory responses] [en.wikipedia.org—Human\\_computer\\_interaction](http://en.wikipedia.org—Human_computer_interaction)
  - ▶  Summary:
  - ▶  Goals:
  - ▶  Differences in Related Fields:
  - ▶  Design:
  - ▶  Heuristic Evaluation: [en.wikipedia.org—Heuristic\\_evaluation](http://en.wikipedia.org—Heuristic_evaluation)
  - ▶  Display Designs:
  - ▶  Human-computer interface [en.wikipedia.org—User\\_interface](http://en.wikipedia.org—User_interface)
  - ▶  Current Research:
  - ▶  Factors of Change:
  - ▶  Scientific Conferences:
- ▼  Heuristic: [en.wikipedia.org—Heuristic](http://en.wikipedia.org—Heuristic)
  - ▶  Etymology:
  - ▶  Summary:
  - ▶  Example:
  - ▶  Psychology:
  - ▶  Philosophy:
  - Law: (further research is required)
  - Mass Communication: (further research is required)
  - Heuristics and Science Opinions: (further research is required)
  - ▶  Stereotyping:
  - ▶  Computer Science:
  - ▶  Human Computer Interaction:
  - ▶  Engineering:
  - Additional Heuristic References:
- ▼  Immersion: (virtual reality) [en.wikipedia.org—Immersion\\_\(virtual\\_reality\)](http://en.wikipedia.org—Immersion_(virtual_reality))
  - ▶  Summary:
  - ▶  Types of Immersion:
  - ▶  Immersive Virtual Reality:
  - ▶  Immersive Digital Environments:
- Immersive Environments: (see: immersion & environment)
- Immersive Worlds: (see: immersion & world)
- ▼  Intelligence: (further research is required) [en.wikipedia.org—Intelligence](http://en.wikipedia.org—Intelligence)
  - ▶  Summary:
- ▼  Interaction: (further research is required) [en.wikipedia.org—Interaction](http://en.wikipedia.org—Interaction)
  - ▶  Summary:
- ▼  Invention: [en.wikipedia.org—Invention](http://en.wikipedia.org—Invention)
  - ▶  Summary:
- ▼  Knowledge: [en.wikipedia.org—Knowledge](http://en.wikipedia.org—Knowledge)
  - ▶  Summary:
  - ▶  Theories:
  - ▶  Epistemology: [en.wikipedia.org—Epistemology](http://en.wikipedia.org—Epistemology)
  - ▶  Etymology: [en.wikipedia.org—Etymology](http://en.wikipedia.org—Etymology)
  - ▶  Experience (Experiential): [en.wikipedia.org—Experience](http://en.wikipedia.org—Experience)
    - Types:
- ▼  Language: [en.wikipedia.org—Language](http://en.wikipedia.org—Language)
  - ▶  Language:
  - ▶  Linguistics: [en.wikipedia.org—Linguistics](http://en.wikipedia.org—Linguistics)
  - ▶  Phonology: [en.wikipedia.org—Phonology](http://en.wikipedia.org—Phonology)
  - ▶  Writing:
  - ▶  Additional Detailed Research:
- ▼  Machine: [en.wikipedia.org—Machine](http://en.wikipedia.org—Machine)
  - ▶  Etymology:
  - ▶  Summary:
- ▼  Manufacturing: (further research is required) [en.wikipedia.org—Manufactured](http://en.wikipedia.org—Manufactured)
  - ▶  Summary:
- ▼  Mathematics: [en.wikipedia.org—Math](http://en.wikipedia.org—Math)
  - ▶  Mathematics:
  - ▶  Combinatorics: [en.wikipedia.org—Combinatorics](http://en.wikipedia.org—Combinatorics)
  - ▶  Geometry: [en.wikipedia.org—Geometry](http://en.wikipedia.org—Geometry)
  - ▶  Resources:
- Mechanism: (see: engineering) [en.wikipedia.org—Mechanisms](http://en.wikipedia.org—Mechanisms)

- ▼  Models:
  - ▶  Non Physical
  - ▶  Modeling Biological Systems:
    - ▶  Standard Model:
  - Multisensory Integration: (Multisensorial) [en.wikipedia.org—Multisensory\\_Integration](http://en.wikipedia.org—Multisensory_Integration)
  - Musical Composition: (further research is required) [en.wikipedia.org—Musical\\_composition](http://en.wikipedia.org—Musical_composition)
  - Natural Processes: (see nature & process) [en.wikipedia.org—Nature](http://en.wikipedia.org—Nature)
- ▼  Nature: (further research is required)
  - ▶  Summary: [en.wikipedia.org—Pattern](http://en.wikipedia.org—Pattern)
- ▼  Patterns
  - ▶  Pattern [en.wikipedia.org—Pattern\\_formation](http://en.wikipedia.org—Pattern_formation)
  - ▶  Pattern formation [en.wikipedia.org—Patterns\\_in\\_nature](http://en.wikipedia.org—Patterns_in_nature)
  - ▶  Patterns in nature [en.wikipedia.org—Philosophy](http://en.wikipedia.org—Philosophy)
- ▼  Philosophy:
  - ▶  Summary: [en.wikipedia.org—Epistemology](http://en.wikipedia.org—Epistemology)
  - ▼  Areas of Inquiry:
    - ▶  Epistemology: [en.wikipedia.org—Ethics](http://en.wikipedia.org—Ethics)
    - ▶  Logic: [en.wikipedia.org—Philosophy\\_of\\_science](http://en.wikipedia.org—Philosophy_of_science)
    - ▶  Metaphysics: [en.wikipedia.org—Physical](http://en.wikipedia.org—Physical)
    - ▶  Ethics: [en.wikipedia.org—Physics](http://en.wikipedia.org—Physics)
  - ▶  Philosophy of Science: [en.wikipedia.org—Physical](http://en.wikipedia.org—Physical)
- Physical: (See: Physics & Particle Physics) [en.wikipedia.org—Physics](http://en.wikipedia.org—Physics)
- ▼  Physics:
  - ▶  Etymology: [en.wikipedia.org—History\\_of\\_physics](http://en.wikipedia.org—History_of_physics)
  - ▶  Summary: [en.wikipedia.org—Philosophy\\_of\\_physics](http://en.wikipedia.org—Philosophy_of_physics)
  - ▶  History: [en.wikipedia.org—Philosophy\\_of\\_physics](http://en.wikipedia.org—Philosophy_of_physics)
  - ▶  Philosophy: [en.wikipedia.org—Philosophy\\_of\\_physics](http://en.wikipedia.org—Philosophy_of_physics)
  - ▶  Core Theories: [en.wikipedia.org—List\\_of\\_unsolved\\_problems\\_in\\_physics](http://en.wikipedia.org—List_of_unsolved_problems_in_physics)
  - ▶  Relation to Other Fields: [en.wikipedia.org—List\\_of\\_unsolved\\_problems\\_in\\_physics](http://en.wikipedia.org—List_of_unsolved_problems_in_physics)
  - ▶  Research: [en.wikipedia.org—List\\_of\\_unsolved\\_problems\\_in\\_physics](http://en.wikipedia.org—List_of_unsolved_problems_in_physics)
  - ▶  Current Research: [en.wikipedia.org—List\\_of\\_unsolved\\_problems\\_in\\_physics](http://en.wikipedia.org—List_of_unsolved_problems_in_physics)
  - ▶  Unsolved Problems: [en.wikipedia.org—List\\_of\\_unsolved\\_problems\\_in\\_physics](http://en.wikipedia.org—List_of_unsolved_problems_in_physics)
  - ▶  Additional References: [en.wikipedia.org—List\\_of\\_unsolved\\_problems\\_in\\_physics](http://en.wikipedia.org—List_of_unsolved_problems_in_physics)
- Process: (further research is required) [en.wikipedia.org—Processes](http://en.wikipedia.org—Processes)
- ▼  Research:[Investigate] [en.wikipedia.org—Research](http://en.wikipedia.org—Research)
  - ▶  Research: [en.wikipedia.org—Discovery\\_\(observation\)\\_Investigate](http://en.wikipedia.org—Discovery_(observation)_Investigate)
  - ▶  Discovery: (observation) [Investigate] [en.wikipedia.org—Investigate](http://en.wikipedia.org—Investigate)
  - Investigation: [en.wikipedia.org—Investigate](http://en.wikipedia.org—Investigate)
- ▼  Science [en.wikipedia.org—science](http://en.wikipedia.org—science)
  - ▼  Science
    - ▶  Experiment: [en.wikipedia.org—Experiment](http://en.wikipedia.org—Experiment)
    - Timeline of Scientific Discoveries: [en.wikipedia.org—Timeline\\_of\\_scientific\\_discoveries](http://en.wikipedia.org—Timeline_of_scientific_discoveries)
    - ▶  The Scientific Method: [en.wikipedia.org—Scientific\\_method](http://en.wikipedia.org—Scientific_method)
    - ▶  Summary: [en.wikipedia.org—Causality](http://en.wikipedia.org—Causality)
    - ▶  Causality: [en.wikipedia.org—Causality](http://en.wikipedia.org—Causality)
  - ▶  Authors: [en.wikipedia.org—Semiotics](http://en.wikipedia.org—Semiotics)
- ▼  Semiotics: [en.wikipedia.org—Semiotics](http://en.wikipedia.org—Semiotics)
  - ▶  Outline of Semiotics: [en.wikipedia.org—Outline\\_of\\_semiotics](http://en.wikipedia.org—Outline_of_semiotics)
  - ▶  Summary: [en.wikipedia.org—Outline\\_of\\_semiotics](http://en.wikipedia.org—Outline_of_semiotics)
- ▼  Sense: [en.wikipedia.org—Sense](http://en.wikipedia.org—Sense)
  - ▶  Summary: [en.wikipedia.org—Sense](http://en.wikipedia.org—Sense)
  - ▶  Definition: [en.wikipedia.org—Sense](http://en.wikipedia.org—Sense)
  - ▶  Traditional Senses: [en.wikipedia.org—Sense](http://en.wikipedia.org—Sense)
  - ▶  Other Senses: [en.wikipedia.org—Sense](http://en.wikipedia.org—Sense)
  - ▶  Non Human Senses: [en.wikipedia.org—Sense](http://en.wikipedia.org—Sense)
  - ▶  Plant Senses: [en.wikipedia.org—Sense](http://en.wikipedia.org—Sense)
  - ▶  Culture: [en.wikipedia.org—Sense](http://en.wikipedia.org—Sense)
- ▼  Shape: [Forms] (see: Mathematics & Geometry) [en.wikipedia.org—Shape](http://en.wikipedia.org—Shape)
  - ▶  Summary: [en.wikipedia.org—Shape](http://en.wikipedia.org—Shape)
- ▼  Simulation: [en.wikipedia.org—Simulation](http://en.wikipedia.org—Simulation)
  - ▶  Summary: [en.wikipedia.org—Simulation](http://en.wikipedia.org—Simulation)
- ▼  Sound: (further research is required) [en.wikipedia.org—Sound](http://en.wikipedia.org—Sound)
  - ▶  Psychoacoustics: [en.wikipedia.org—Sound](http://en.wikipedia.org—Sound)
  - ▶  Summary: [en.wikipedia.org—Sound](http://en.wikipedia.org—Sound)
  - ▶  Acoustics: [en.wikipedia.org—Sound](http://en.wikipedia.org—Sound)

- ▶  Physics of Sound:
- ▶  Perception of Sound:
- ▶  Sound Pressure:
- Equipment for Dealing with Sound
- ▶  Sound Measurement:
- ▼  Space: [en.wikipedia.org—Space](http://en.wikipedia.org—Space)
  - ▶  Summary:
  - ▶  Philosophy of Space:
  - ▶  Mathematics:
  - ▶  Physics:
  - ▶  Spatial Measurement:
  - ▶  Geographic Space:
  - ▶  In Psychology:
- ▼  Spacetime: [See: space, mathematics & physics] [en.wikipedia.org—Spacetime](http://en.wikipedia.org—Spacetime)
  - ▶  Summary:
  - ▶  In Literature:
  - ▶  Basic Concepts:
  - ▶  Mathematics of Spacetimes:
  - ▶  Spacetime in General Relativity:
  - ▶  Quantized Spacetime:
  - ▶  Privileged Character of 3 + 1 spacetime:
- ▼  Spatialization: (further research is required) [en.wikipedia.org—Spatialization](http://en.wikipedia.org—Spatialization)
  - ▶  Summary:
- ▼  Spatial Music: [en.wikipedia.org—Spatial music](http://en.wikipedia.org—Spatial_music)
  - ▶  Summary:
  - ▶  Context:
  - ▶  Examples:
  - ▶  Additional References:
- ▼  Synthesis: [en.wikipedia.org—Synthesis \(disambiguation\)](http://en.wikipedia.org—Synthesis_(disambiguation))
  - ▶  Etymology:
- Synthetic Life: (see: artificial life) [en.wikipedia.org—Synthetic life](http://en.wikipedia.org—Synthetic_life)
- Synthetic: (further research is required) [en.wikipedia.org—Synthetic \(disambiguation\)](http://en.wikipedia.org—Synthetic_(disambiguation))
- ▼  Technology
  - ▶  Etymology:
  - ▶  Summary:
  - ▶  Definition and Usage:
  - ▶  Science, Engineering and Technology:
  - History: (further research is required)
  - Technology and Philosophy: (further research is required)
- ▼  Dimension: (mathematics & physics) [en.wikipedia.org—Third dimension](http://en.wikipedia.org—Third_dimension)
  - ▶  Summary:
- ▼  Time: (further research is required) [en.wikipedia.org—Time](http://en.wikipedia.org—Time)
  - ▶  Summary:
  - ▶  Time in Greek Mythology:
  - ▶  Philosophy: (further research is required)
  - ▶  Physical Definition: (further research is required)
  - ▶  Time as Big Bang:
  - ▶  Time Travel:
  - ▶  Time Perception:
- ▼  Virtual Reality: [en.wikipedia.org—Virtual reality](http://en.wikipedia.org—Virtual_reality)
  - ▶  Summary:
  - ▶  Timeline:
  - ▶  Impact:
  - ▶  Examples: Environments
- Virtual: (See: Virtual Reality) (further research is required) [en.wikipedia.org—Virtual](http://en.wikipedia.org—Virtual)
- ▼  World: (further research is required) [en.wikipedia.org—Worlds](http://en.wikipedia.org—Worlds)
  - ▶  Summary:
  - ▶  Etymology:
  - ▶  Philosophy:
  - ▶  Religion and Mythology: