Teaser figure with 2 or 3 images showing the contributions

**Figure 1**: Caption

**2D Pattern Recognizer/ Beautifier**

*Include a catchy and easy to remember name for your solution and enough key words to describe the problem solved and the solution? Include the domain restriction (2D, convex, polygonal, manifold…)*

**27th Feb 2015**

**Jarek Rossignac and Deep Ghosh**

**ABSTRACT**

*What problem is addressed*

Text.

*Why is it important?*

Text.

*Prior state of the art and why improvements are desired*

Text.

*Name and essence of proposed approach and novel contributions*

Text.

*Its restrictions (domain, validity conditions)*

Text.

*Its benefits over prior art (generality, speed, simplicity)*

Text.

*What is included in this paper (definitions, proofs, algorithms, validations, applications).*

Text.

# Introduction

## Problem statement

*Short statement of the broad and general problem addressed*

Text.

## Motivation

*Discuss why the problem is important, mention application areas and explain potential impact of solving the problem*

Text.

## Interest

*Discuss why the problem is hard, why trivial solutions do not work*

Text.

## Prior art

*Point out how much effort has been devoted to this problem or that it is a new problem. Summarize the state of the art and explain what should be improved(performance, generality…) and why improving it is important*

Text.

## Essence of the proposed solutions

*Explain in broad terms and at a high level what is your approach*

Text.

Fig 1, shows…

## Novel contributions and paper outline

*List specific inventions or novel component presented in this paper and explain (forward references) in which section they are presented*

Text.

# Background

*Teach things (define concepts, explain data structures, outline algorithms and their complexity) that were know (published) before and that are important for understanding the rest of the paper. Define your notation and concepts that are used later but that are not themselves a novel contribution.*

Text.

## Concept 1

*Define notation, concept, algorithm…*

Text.

## Concept 2

*Define notation, concept, algorithm…*

Text.

# Prior art

*Explain how you organize prior art and why*

Text.

## Subsection

*Explain the common feature of the prior art discussed in this subsection*

Text.

### Subsubsection

*Discuss a specific paper or series of paper about the same approach.*

*Say precisely what it does, how it does, and what are the limitations (say whether they are stated by the authors).*

Text.

### Subsubsection

Text.

## Subsection

*Explain the common feature of the prior art discussed in this subsection*

Text.

### Subsubsection

Text.

### Subsubsection

Text.

# Overview of the proposed approach

*Describe clearly the input, the output, the modules or steps of the solution, the data flow, the user experience. For each step or process, explain what it does (input, output, closed form or iteration...)*

Text.

## Outline of the algorithm

*Provide a high level organization of algorithm*

*Include a figure*

**Figure 2**: Caption

Text. In Fig 2, we

# Detail 1

*Explain in details one particular step, algorithm, representation.*

Text.

# Detail 2

*Explain in details one particular step, algorithm, representation.*

Text.

# Results and validation

*Explain what benchmark or input data or types of user objectives was used and why.*

Text.

## Performance

*State what machine was used, give data sizes, give timings and details about what exactly was measured and how. Give conclusions in plain English*

Text.

## Limitations

*Clearly state situations where your approach will not work*

*Explain what to do about it (validity conditions, test, strategy for dealing with such cases)*

Text.

## Accuracy

*If appropriate, discuss issues of sampling, effect of approximating a smooth curve with a polygon, numeric round-off error…,*

Text.

## User feedback

*If appropriate, discuss how you tested your solution on users and what was their feedback. Provide examples, mention accompanying videos, provide timing or accuracy results.*

Text.

# Applications

*Discuss one or more applications. Include prior art for each application, explain how your contribution can be used. Provide illustration of how it is used. Explain the benefits..*

Text.

# References

<http://ac.els-cdn.com/S1077314200908890/1-s2.0-S1077314200908890-main.pdf?_tid=f57c82ea-bec1-11e4-895d-00000aacb35e&acdnat=1425070278_d67776a9e8a92529b5d17c61cd9fcab7>  
  
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# Conclusion

*Follow the structure of the abstract, but refer to specifics assuming that the reader has understood the contribution and terminology. This is a recap of what problem was solved, what is the proposed approach, why / how much is it better than prior art, what are its limitations, what are cool applications and anticipated benefits. You can mention future work, especially if you do* ***not*** *intend to do it ;-)*

Text.

# Section

## Subsection

### Subsubsection

Text.

Code

Figure