Problem Motivation: Did the speaker motivate this problem? Why is the problem interesting? What applications can this problem be applied to? List at least two applications this problem can be applied to other than what was presented. Briefly justify your answer. (50 word limit)

Problem Statement: What problem did the presenter attempt to solve? If applicable, what were the input, output, objective, and constraints for this problem? Briefly justify your answer. (50 word limit)

I wouldn’t say they were trying to solve a problem, but instead they were just applying the crime stat algorithms on a data set that they had obtained from the University of Minnesota Campus police.

Hardness: What is the main challenge in this work? Classify these challenges into computational, spatial, other, etc. Briefly justify your answer. (50 word limit)

I think more of their challenges were relating to organizing their dataset to be used in the crime stat algorithms and system compared to actual implementation of the algorithms.
**Proposed Solution:** How did the presenter solve the problem that was described? What were the key ideas behind the proposed solution? What was innovative about their solution? List at least three suggestions on how their proposed solution may be improved. Briefly justify your answer. (50 word limit)

I wouldn’t say that they were trying to solve a specific problem but instead using crime stat to show display how to use crime stat and how effective their algorithms can be in mapping crime uses the many different methods they presented.

**Related Work:** Did the speaker provide a sufficient survey of related work? What were the main limitations in the related work? Do you feel that either the problem or proposed approach is novel? Briefly justify your answer. (50 word limit)

Yes, at the end of the presentation they talked about Crime stat contributes to computer science. I don’t feel that the problem is novel at all, but I wish the presenters would have gone into a little more detail describe exactly what they did so I could answer the “proposed approach” question.

**Validation:** What were the validation methodologies used in this work? Was the proposed approach compared with any state-of-the-art or naive approaches? Were there any surprises in the validation results relative to your expectations? Briefly justify your answer. (50 word limit)

They were using a state of the art approach so Im not sure how to answer this.

**Presentation Critique:**

Do you think the speaker did a good job motivating and defining the problem clearly for someone like you who may be a "non-expert" on the topic? Why or why not? (50 word limit)
I say yes! I never heard of crime stat before and I definitely learned its purpose and how it is used.

Did the speaker emphasize the central message (e.g. did they follow: "Tell the audience what you're going to say, say it; then tell them what you've said.") (50 word limit)
Yes

Did the speaker relate to the audience? What did the speaker do to establish a rapport with the audience before delivering the key message? (50 word limit)
Yes, they described what crime stat was and how its underlying algorithms work.

What did the speaker do to engage the audience? e.g. Did the speaker ask short questions to either motivate the upcoming topic or assess the background/thinking of the audience? (50 word limit)
Negatory.

Did you understand most of the talk (or 75%, 50%, 25%, 5%, 0%)? Did the speaker inspire you to want to learn more about what he/she is doing? If you had to rate the presentation check-, check or check+, what score would you give? Briefly justify your answer. (50 word limit)

100%. Although I did find the presentation revealing, I don’t find it interesting enough to explore more.

I would give them a check. They did a good job presenting the material. Going through all of the algorithms of crime state, given detailed descriptions of how they are implemented. The reason I don’t say check+ is because I feel that their implementation was something new, but simply the use of theses predefined algorithms.
Problem Motivation: Did the speaker motivate this problem? Why is the problem interesting? What applications can this problem be applied to? List at least two applications this problem can be applied to other than what was presented. Briefly justify your answer. (50 word limit)

Yes
- They give overview of the diversity
- They motivate by giving examples of usage like the Jaguar example. Other applications include getting different routes under different conditions like moving hazard materials using different routes

Problem Statement: What problem did the presenter attempt to solve? If applicable, what were the input, output, objective, and constraints for this problem? Briefly justify your answer. (50 word limit)

Yes
They provide a formal problem definition for the addressed problem.

Hardness: What is the main challenge in this work? Classify these challenges into computational, spatial, other, etc. Briefly justify your answer. (50 word limit)

- They listed some challenges such as lack of standard datasets for multiple routes between single source and destination.
- Also, there is another challenge in the distance/diversity measure. How can the diversity be judged?

Proposed Solution: How did the presenter solve the problem that was described? What were the key ideas behind the proposed solution? What was innovative about their solution? List at least three suggestions on how their proposed solution may be improved. Briefly justify your answer. (50 word limit)
- Minack diversity algorithm is used to max the minimum distance between two items. This is done in two phases (initial and refine).
- Shannon Entropy is employed to increase the diversity measured between two items.
- Novelty includes incorporating diversity indexes into the spatial area.

**Related Work:** Did the speaker provide a sufficient survey of related work? What were the main limitations in the related work? Do you feel that either the problem or proposed approach is novel? Briefly justify your answer. (50 word limit)

Yes
- Related work addresses diversity in general without addressing the spatial routes issues

**Validation:** What were the validation methodologies used in this work? Was the proposed approach compared with any state-of-the-art or naive approaches? Were there any surprises in the validation results relative to your expectations? Briefly justify your answer. (50 word limit)

They provide the result of comparing min-distance diversity against entropy-based.

**Presentation Critique:**
Do you think the speaker did a good job motivating and defining the problem clearly for someone like you who may be a "non-expert" on the topic? Why or why not? (50 word limit)

Yes. They clearly defined the problem and give sufficient examples for motivations
Did the speaker emphasize the central message (e.g. did they follow: "Tell the audience what you're going to say, say it; then tell them what you've said.") (50 word limit)

Did the speaker relate to the audience? What did the speaker do to establish a rapport with the audience before delivering the key message? (50 word limit)

What did the speaker do to engage the audience? e.g. Did the speaker ask short questions to either motivate the upcoming topic or assess the background/thinking of the audience? (50 word limit)

They asked some questions to make it interactive.

They have clear and well formatted slides.

Did you understand most of the talk (or 75%, 50%, 25%, 5%, 0%)? Did the speaker inspire you to want to learn more about what he/she is doing? If you had to rate the presentation check-, check or check+, what score would you give? Briefly justify your answer. (50 word limit)

- Almost the majority of the presentation is understandable.
- Check+ for the presentation. They have smooth, clear, and well linked slides to show the whole story.
- They did a good job presenting the material by explaining and comparing the used algorithms.
Write a short (1000 word) essay summarizing what you learned in this course. Include a paragraph (100-words) suggesting specific improvements to future offerings.

Abdeltawab Hendawi

I liked the course because I learned a lot of stuff related to the field of spatial data and the bridging area that links it to geographic information systems. The oracle lab is one of the most powerful tools that helped to understand the current technology in spatial database management systems. Also, the web assignments encourage us to try to learn something about Google map API and related materials. The textbook, slides, spatial news, and the related articles integrate to cover most of the branches of the course objective.

I believe that having a one or more weeks about developing mobile applications will be useful, and will be better if given by an expert programmer that can link it to the spatial DB field.

Eugen Sturrm.

Before taking this course, I hadn’t taken any course, read any material or participated in any projects related to spatial computing or the topics that were covered in this class. The reason why decided to take this course was to explore the topic, learn about it and complete a project related to the field so I would get a hands on view of spatial computing. Most everything covered in the class relating to GIS was new to me. Being a computer science student, I was already familiar with most of the data structures and algorithms presented in the class but I was not familiar with how their were used in the field of GIS.

Some highlights of what I learned definitely came from the homeworks and labs we completed. The use of Oracle Spatial DB was brand new to me and I found the homeworks involving this very useful. I had never had any experience using a spatial database and I feel I have a much better understanding of their uses because of this class and the homeworks that used them.

Along with the spatial databases exercise, the web labs using mobile computing were also pretty informative and good concrete example and use of GIS concepts.
While the spatial database exercise felt like they were a higher level and less accessible to me, the web labs using mobile phone and html5 felt much more accessible.

Relating to improvements in the class, I feel that there isn’t too much that needs to be done. One of the most informative parts of the class, in my opinion, was the spatial news. I feel that if the class maybe had more emphasis on current events relating to spatial topics and technologies it would benefit greatly. Some more improvements could also include more project-based assignments, possible relating to the use of gps in mobile phones. I feel that project based assignments are far better then book questions because they are hands on. I suggested mobile phones because it is quite apparent that mobile computing is a major facet of GIS.