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ITRW313

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Project Proposal

1. Title: Damage Repair

2. Subject: Construction on damaged buildings

3. Consultants: Person with a B.Sc. Construction science degree

4. Can this be solved using Expert Systems?

4.1 Can the problem be effectively be solved using conventional programming?

This problem cannot. As to constructing a build from the ground up, it can be solved with conventional programming.

The repair of damaged build cannot be solved like this, as an expert needs to assess the damages done on the building to know how much and how strong repairs need to be done to fix the damage parts. Example: Water damage on a brick wall can come in 3 forms, a lot of water damage the wall must be rebuilt, medium water damage the wall can be meshed and re plastered, low water damage the wall can only be plastered.

4.2 Is the domain well-bounded?

4.3 Is there a use and need for this?

Yes for a use. Not nesseceraly a need.

As there are a lot of natural disasters in this world, this can help to faster assess and rebuild places affected by such disasters.

4.4 Is there at least one human expert willing to help?

I have contacted a person with a BSc Construction science degree and he agreed to help.

4.5 Can the human expert explain the knowledge so that it is understandable by the knowledge engineer?

Yes. I have had more than 2 years part time work experience with this person, and he has taught a lot to me. I already have basic understanding of damage management and with his help it will be fully understandable.

4.6 Is the problem-solving knowledge mainly heuristic or and uncertain?

Almost none of the problems will be uncertain because there is always a way to repair buildings, or to declare it unrepairable (example: unstable ground and will cost too much) so just it’s heuristic.