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ABSTRACT

This paper investigates the current & future advancement in some technological areas & their impact & challenges on Saudi engineers. It starts by giving the reader a brief idea about the magnitude of the research & development in some areas, like for example: information technology, superconductors technology, miniaturization technology, energy resources, design & manufacturing...etc. The paper then tries to measure the interaction & awareness of Saudi engineers to all these advancements by conducting a survey on small group of Saudi engineers in different engineering disciplines & experiences. Furthermore, it summarizes the results found & their interpretations. Finally, the paper suggests some recommendations to better support & enhances the skills & capabilities of Saudi engineers to cope with such concurrent & future technological challenges. It is worth mentioning that, this paper is a very basic in its nature & a very deep and Comprehensive studies & analysis are recommended.

(ASME, 1999 :)

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(James Heath)

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(Bandwidth)

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(Expert Systems)

(John McCarthy , 2000 :)

(Britannica , 1999 – 2000 :)

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(Magnetic – Levitation)

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Superconductors.org, :) MRIs

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(Superconductors.org , 2000 :)

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(Nano Technology)

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Integrated Modeling & Simulation , AI &)

. (Decision Making Systems, Automated Sensors & Actuators, System Security, ...etc

. (ASME , 1999 :)

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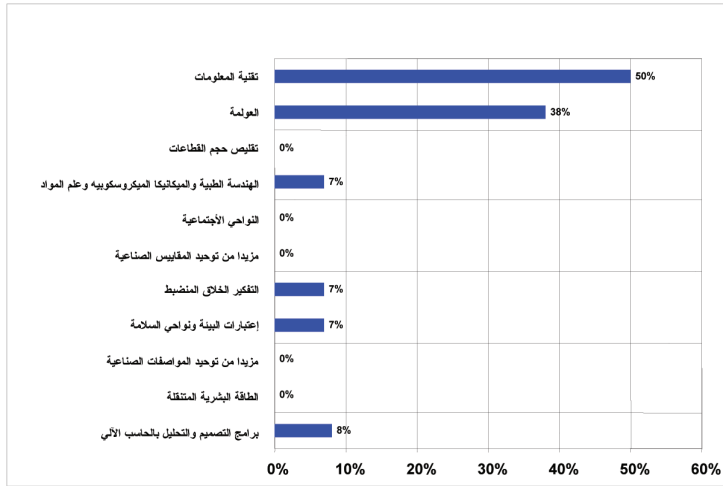
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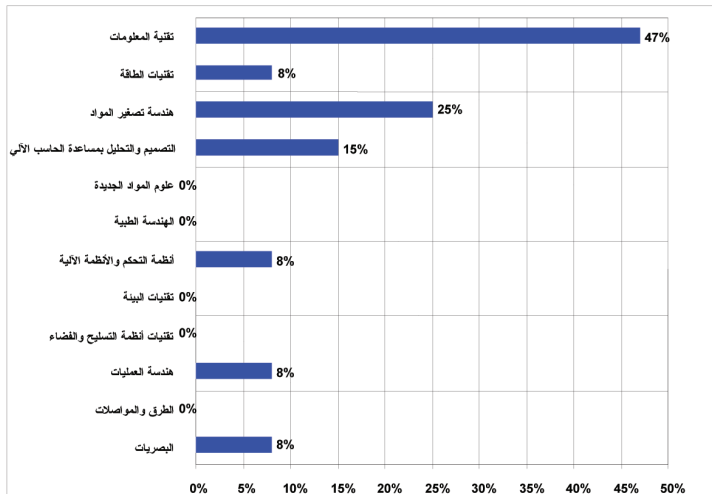
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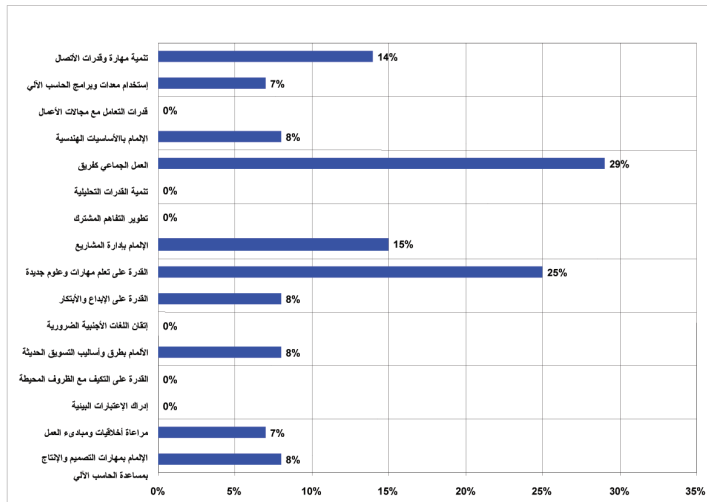


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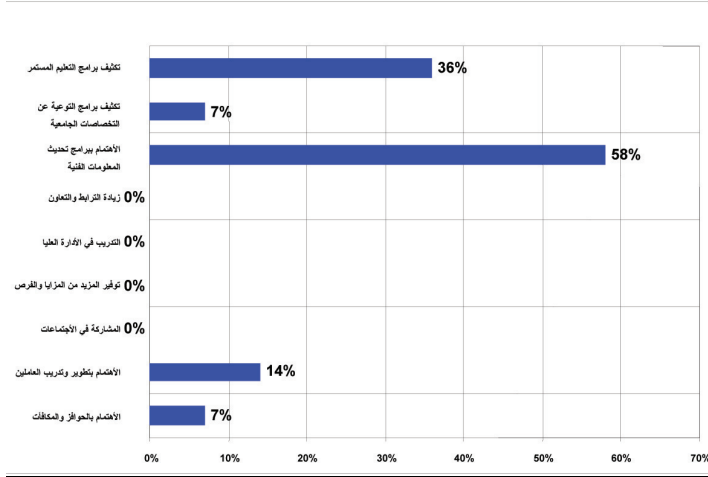


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