VIRTUAL FACULTY MENTORING: CAN IT BE ACCOMPLISHED THROUGH EMBODIED CONVERSATIONAL AGENTS?

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• Embodied conversational agents (ECAs) for virtual faculty mentoring are being developed under the IMPACT mentoring program

• Other Goals of the Award:
  • Document project partners’ efforts in supporting underrepresented minority (URM) faculty and engaging retired faculty in academia
  • Deploy a national survey of engineering colleges to (1) develop a sampling frame for IMPACT mentoring participants and (2) establish an understanding of the ways in which higher education institutions engage retired faculty
  • Achieve 20 “goal mentoring matches” of URM and retired engineering faculty
The IMPACT award includes a pre-pilot rendition of a Virtual Mentoring System using ECAs. In this case, a mentee (i.e., doctoral student, postdoctoral fellow, early-career faculty member) would ask career advice questions of an ECA, who draws responses from a pre-programmed database populated with content by renowned emeriti engineering faculty.
One quality that I've seen inhibit people from getting tenure is simply not getting to know your colleagues. The other quality that can inhibit you is going around arguing with people all the time, being arrogant, that's not wise.

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Are there personal qualities about a person that they would need to possess to be successful in an academic career?

One needs to have the kind of personality that allows you to be comfortable engaging in networking because you need to be assertive. Life in general is a people business, research is a people business. You must engage with people doing research in your area.
EMBODIED CONVERSATIONAL AGENTS EFFICACY

• Do you think faculty mentoring can be accomplished through automation and digitization?

• Would you be satisfied with a virtual mentoring experience?

• Do you think emeriti faculty perspectives are relevant and useful?
STUDYING EMBODIED CONVERSATIONAL AGENTS

• Despite the myriad of roles ECAs have been engineered to fulfill, little research addresses ECAs for faculty mentoring.

• Initial ECA research suggests faculty mentoring can be effectively accomplished with ECAs, higher effectiveness ratings are a result of user satisfaction, perceived utility, and feelings of emotional-relatability.

• The scalability of ECAs for faculty mentoring make this an ideal mechanism to support the career success of faculty across the professoriate.
NEXT STEPS

• Conduct additional interviews for ECA content
• Develop a framework for finalizing ECA dialogue
• Develop the chatbot for the ECA
• Test the chatbot with various stakeholders
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• For more information on IMPACT, please visit: https://www.uccs.edu/impact/
ECA REFERENCES


