Fellowship title: Royal Melbourne Institute of Technology

Final report completion year: 2018

Fellowship Outputs

- Sets of educational materials on TRIZ heuristics for self-learning (including introductory videos, solution templates (PDF and web-based) and cheat sheets) as well as PowerPoint slides for the teachers to introduce these heuristics in class
- Fellowship Repository (https://edisons21.com) offering the above educational materials as well as research papers and case studies on TRIZ applications in academia and industry
- Numerous national and international presentations that promoted the Fellowship Repository to over 400 engineering academics and over 6000 engineering students
- Fellowship Convention (AAEE 2017, Sydney, December 2017) that attracted over 100 academics (17 research presentations by academics and practitioners from nine countries)
- Edisons21.com Creativity Challenge: three student winners participated in the Workshop on integration of creativity into curriculum (attended by over 40 academics)
- Surveys of students and academics that confirmed the usefulness of educational materials offered by the Fellowship Repository for learning thinking heuristics and suitability of these thinking heuristics for application in student projects
- Eleven peer-reviewed publications, including three papers on successful utilisation of educational materials from the Fellowship Repository at three educational institutions
- Promotional materials (video, flyers, cards etc.) distributed to hundreds of academics and thousands of students
- Final Fellowship report.

Fellowship achievements and impacts

- **Student level**: Hundreds of students studied TRIZ heuristics and applied these heuristics in their university projects
- **Discipline level**: Three case studies on successful embedding of TRIZ heuristics into discipline courses (Swinburne University of Technology, RMIT and Toi-Ohomai Institute of Technology) have been published as peer-reviewed papers
- **Discipline level**: Over 200 academics, including Deans and Deputy Deans, as well as officers from Engineers Australia involved in discussions of changes to engineering curricula required for enhancement of graduates’ creativity skills
- **Sector level**: Sets of educational materials that can be used by academics/curriculum designers across disciplines or contexts.